INDEX

TO

THE CALCUTTA GAZETTE

FROM

JANUARY TO JUNE 1890.

INDEX

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[REGISTERED No. 29.]

No. 1 of 1890.

The Calcutta Gazette.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 3450A.

GENERAL.—*The 20th December* 1889.—Baboo Ram Sadan Bhuttacharjee, Deputy Magistrate and Deputy Collector, is appointed to perform the functions of a Collector under section 4 of the Public Demands Recovery Act VII (B.C.) of 1880 in the district of Manbhoom, *vice* Baboo Radha Kanto Banerjee, Deputy Collector.

The 21st December 1889.—The Lieutenant-Governor is pleased to accept the resignation tendered by Dr. R. Macleod of his commission as Honorary Surgeon of the Behar Light Horse.

The 23rd December 1889.—Surgeon Francis Samuel Peck is appointed to be Honorary Surgeon of the Behar Light Horse, *vice* Dr. R. Macleod, resigned.

The 24th December 1889.—Mr. H. F. J. T. Maguire, Joint-Magistrate and Deputy Collector, 24-Pergunnahs, is appointed to act temporarily as Magistrate and Collector of Burdwan, with effect from the date on which he joined his appointment.

The 28th December 1889.—Mr. Minden J. W. Augier, Temporary Sub-Deputy Collector, Monghyr, is transferred to the district of Moorshedabad.

The 30th December 1889.—Mr. S. J. Douglas, Joint-Magistrate and Deputy Collector, Gya, is appointed to act, until further orders, in the first grade of Joint-Magistrates and Deputy Collectors, with effect from the date on which he joins his appointment at Gya.

The 31st December 1889.—The services of Mr. E. P. Chapman, Assistant Magistrate and Collector, 24-Pergunnahs, are placed temporarily at the disposal of the Financial Department of this Government.

The following Officiating Deputy Magistrates and Deputy Collectors are posted to the Sudder station of the district mentioned opposite their names :—

Moulvi Syed Karam Hossein	...	Durbhunga.
Baboo Abhilash Chandra Mookerjee	...	Rajshahye.
Moulvi Mahammad Habibullah	...	Khoolna

Mr. H. Luson, Officiating Joint-Magistrate and Deputy Collector, Bettiah, Chumparun, is transferred to Jessore, and is appointed to have charge of the Jhenidah and the Magoorah sub divisions of that district.

Baboo Soshi Bhusan Bose, Officiating Deputy Magistrate and Deputy Collector, Hooghly, is transferred to Jessore, and is posted to the Magoorah sub-division of that district.

Baboo Kedar Nath Biswas, Deputy Magistrate and Deputy Collector, Jhenidah, Jessore, is transferred to the Sudder station of the district of Cuttack.

Baboo Bangshi Dhar Banerjee, Deputy Magistrate and Deputy Collector, Magoorah, Jessore, is transferred to Dacca, and is appointed to have charge of the Manickgunge sub-division of that district.

EDUCATION.—*The 26th December* 1889.—Baboo Jadu Nath Pal, Officiating Deputy Inspector of Schools, Howrah, is appointed to act in class III of the Subordinate Educational Service, *vice* Baboo Hara Mohan Bhattacharjee.

The following notification is republished from the *Assam Gazette* :—

No 412.—*The 20th December* 1889.—Mr. W. B. Brown, C S, Assistant Commissioner, is appointed Sub-Registrar of North Lakhimpur in addition to his other duties, with effect from the 19th November 1889.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT,—FORESTS.

NOTIFICATION.

The 31st December, 1889.—Mr. A. L. Home, Conservator of Forests, Bengal, is allowed leave for three months, under Article 291 of the Civil Service Regulations, with effect from the 30th instant.

P. NOLAN,
Secretary to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 28th December, 1889.—Mr. F. J. R. Field, Assistant Sub-Deputy Opium Agent, acted as Sub-Deputy Opium Agent, Gya, from the 18th to the 26th October, 1889, both days inclusive.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 31st December, 1889.—Mr. A. Elliot, Sub-Deputy Opium Agent, Tehta, has been allowed by Her Majesty's Secretary of State for India a further extension of two months' leave in continuation of the leave granted to him under the orders of the 6th November, 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 31st December, 1889.—In continuation of the Government notification dated the 15th January, 1889, published at page 31, Part I of the *Calcutta Gazette* of the 16th January, 1889, the Lieutenant-Governor directs that the orders therein passed for the making of a survey and preparation of a record of rights in the Srinagar estates shall apply also to patnis and other tenures held exclusively by the minor proprietors of that estate in the following estates :—

Name of tenure.	Estate in which situated.	District.
Patnis and Darpatnis.		
Lot Sripur	Tajpore, towji Nos. 19 and 20	Purneah.
Belahi	Kadwan, towji No. 65 ...	
Taluka Belahi ...	Kadwa, towji No. 65 ...	
Bhunrailee		
Mouzah Chundi Kutwa	Haveli, towji No. 8 ...	
„ Baneli		
„ Sotta		
„ Mohui		
„ Rohori		
„ Pool Balwa Baneli		
Arazee Ramena, Lalia Singh		
Chanba Singhia		
Surra Bathna, Istambrar		
Khokhat Kamat Durgali		
Bansi Nankar		
Kamat Nawada		
„ Bhabaninagar and Durganugar ...		
Taluka Sarrabasathi and Jhuni Balwa ...		
Mouzah Hurda Gangili	Dharampur, towji No. 22	
Satkodaria		
Mouzah Mathour Istambrar	Kadwa, towji No. 2 ...	
„ Khuti Dudheli	Haveli, towji No. 8 ...	
Jot Jamas		
Arazee Srinugar Khutea	Haveli, towji No. 8 ...	
„ Sursauni		
Dihia		
Bagnan Agangir		
Jogeli and Kamat Rampur ...		
Bhag Prayag		
Kamat Kohbara		
Bhagat Ghoghri		
Deuria Kamat		
Bagat Farkia		
Arazee Srinugar Hari Loll		
Kamat Rampur Kalumbagh		
Bogan Mahbarabari		
Kaimipathi Sadhaili		
Bagnan Tamghoti		
Nya Kalambag		
Khuti Baisa		
Milik Madhua Kola		
Kamat Gareah		
„ Ankhari	Katiaar, towji No. 1239 ...	

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 31st December, 1889.—The services of Baboo Juga Das Bhattacharjee, who was, under the notification dated the 2nd October, 1889, appointed to be a Revenue Officer in the Srinagar-Baneli Estates, and vested with the powers of an Assistant Settlement Officer as defined in Rule 1, Chapter VI of the Bengal Tenancy Act Rules, are extended up to the end of January, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 27th December, 1889.—With reference to the notification of the 5th October, 1889, it is hereby declared that the subjects of the Examination for Admission into the Opium Department will be taken up on the dates and in the order mentioned below. The examination will be held in Calcutta at the Senate House of the Calcutta University.

January, 1890.

27th.		28th.		29th.
Morning.	Afternoon.	Morning.	Afternoon.	Morning.
Essay, 10 A.M. to 12-30 P.M.	English History and Literature and Elementary Indian History, 1 P.M. to 4 P.M.	Hindustani, 10 A.M. to 12-30 P.M.	Geography, 1 P.M to 3-30 P.M.	Arithmetic and Algebra 10 A.M to 1 P.M.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 31st December 1889.—Under the powers conferred upon him by section 101, sub-section 2, clause *a* of the Bengal Tenancy Act VIII of 1885, the Lieutenant-Governor is pleased to order that a survey shall be made and a record of rights prepared in respect of all lands included within the boundaries of the estate, towji No. 1763, within pergunnah Dakhin Shabazpore, in the district of Backergunge, and also of all tenures held by any or all of the proprietors of the aforesaid estate which lie within the boundaries of the estate, towji No. 1764.

The particulars to be recorded in the survey and record of rights shall be the following :—

(*a*) —The names of the proprietors, with the character and extent of their interests.
(*b*).—The situation, quantity and boundaries of the proprietors' private lands as defined in chapter X1 of the Act.
(*c*).—The name of each tenant.
(*d*).—The class to which he belongs, viz. whether he is a tenure-holder, raiyat holding at fixed rates, occupancy raiyat, non-occupancy raiyat; and if he is a tenure-holder, whether he is a permanent tenure-holder or not, and whether his rent is liable to enhancement during the continuance of his tenure.
(*e*).—The situation, quantity and boundaries of the land held by him.
(*f*).—The name of his landlord.
(*g*).—The rent payable.
(*h*).—The mode in which that rent has been fixed, whether by contract, by order of a Court or otherwise.
(*i*).—If the rent is a gradually increasing rent, the time at which, and the steps by which, it increases.
(*j*).—The special conditions and incidents, if any, of the tenancy.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 31st December 1889.—Under the powers conferred upon him by section 3 of the Bengal Survey Act of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made of the lands situated within the estate, towji No. 1764, within the district of Backergunge, and that the boundaries of such estate, and of the tenures, mouzahs, and of fields therein, shall be demarcated on the lands so to be surveyed.

P. NOLAN,
Secretary to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 3451A.

The 31st December 1889.—The following officers are vested with the powers of a Magistrate of the third class :—

Moulvi Syed Karam Hossein, Officiating Deputy Magistrate and Deputy Collector, Durbhunga.

Baboo Abhilash Chandra Mookerjee, Officiating Deputy Magistrate and Deputy Collector, Rajshahye.

Moulvi Mahammad Habibullah, Officiating Deputy Magistrate and Deputy Collector, Khoolna.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Second Publication.]

NOTIFICATION.

The 18th December 1889.—It is hereby notified that the Lieutenant-Governor authorizes the extension of the provisions of section 34 of Act V of 1861 to the village of Saidpore, in the district of Rungpore, within the boundaries specified below :—

On the North.—A straight line drawn from the Saidpore Rifle Range to Pendu Ram Boiragy's house.

On the South.—A straight line drawn from East Baboo Para to the village road east of Nanku Haolder's Para.

On the East.—A straight line drawn from Pendu Ram Boiragy's house to East Baboo Para.

On the West.—A straight line drawn from the village road east of Nanku Haolder's Para to the high ground for target practice.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(BENGAL.)

ESTABLISHMENT.

The 30th December 1889.

No. 476.—Adverting to the Notification No. 438, dated the 6th instant, Mr. L. R. Fraser, Assistant Engineer, was on special duty in the Office of the Superintending Engineer, Western Circle, from the 5th to the 13th idem, both days inclusive.

The 31st December 1889.

No. 477.—The following notifications by the Government of India, Public Works Department, are republished for information :—

No. 403, *dated 24th December* 1889.—Lieutenant-Colonel C. W. I. Harrison, R.E., Officiating Chief Engineer and Joint-Secretary to the Government of Bengal, is, on return of Colonel J. M. McNeile, R.E., from special leave, re trafnsferred to the North-Western Provinces and Oudh and appointed to officiate as Chief Engineer and Joint-Secretary to that Government.

No. 404, *dated 24th December* 1889.—Colonel J. M. McNeile, R.E., Chief Engineer and Joint-Secretary to the Government of Bengal, Public Works Department, having vacated his appointment under Article 687, clause (*c*) of the Civil Service Regulations, is re-appointed to that post, with effect from the 26th February 1889.

E. J. MARTIN,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 31st December 1889.

No. 478.—Mr. J. P. Coy, Assistant Engineer, returned from furlough on the 15th November 1889.

IRRIGATION.

The 31st December 1889.

No. 479.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for a dock siding at Harpur, it is hereby declared that for the above purpose a piece of land measuring about 525 feet in length, and from 100 to 125 feet in width, and containing an area of 1 acre 1 rood and 2½ poles, more or less, situate in mouzahs Harpur and Andhari, pergunnah Nonore, bounded on the north by the Arrah Canal ; on the east by the boundary lands of mouzah Andhari ; on the south by lands in the cultivation of Dwarka Ojha, Chhathoo Ojha, and others ; and on the west by lands in the cultivation of Chhathoo Ojha and others, is required in the district of Shahabad.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 480.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose; viz., for Basoodhar Distributary Extension, it is hereby declared that for the above purpose a piece of land measuring about 1 mile and 2,720 feet in length, and varying from 10 to 110 feet in width, and containing an area of 16 acres and 4¼ poles, more or less, situate in mouzah Basoodhar, pergunnah Bhojpur, is required in the district of Shahabad.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

Erratum.—In Notification No. 455, published at page 1042, Part I of the *Calcutta Gazette* of the 18th December 1889, *for* "1st April 1889" *read* "1st April 1890."

No. 481.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for an escape from the Kantya Distributary at the 8th mile and 5,122nd feet, it is hereby declared that for the above purpose a piece of land measuring about 3,045 feet in length and from 90 to 160 feet in width, and containing an area of 7 acres 1 rood and 12¼ poles, more or less, situate in mouzah Baligaon, pergunnah Beehea, bounded on the north and south by the lands of mouzah Baligaon; on the west by the Kantya Distributary; and on the east by a *nala* and *naddee*, is required in the district of Shahabad.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 482.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the Baliaghye Branch Channel, in the villages noted below, pergunnahs Narnamutha, Paharpur, and Dantamutha, zillah Midnapore, it is hereby declared that for the above purpose a piece of land measuring, more or less, 491 beegahs and 19 cottahs of standard measurement, is required within the aforesaid villages noted below—

Paschim Sarpai, Kausulya, Dakhin Nischinta, Shiuli, Kandaramari, Dhalgada, Jamna, Jugurnath Karbar, Asti Chak, Goguadegar, Dakhin Chaumuk, Utter Chaumuk, Hurkuchia, Rajendra Chak, Uttarpatar, Samil Madhub Chak, and Gharabashan.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

[Fourth Publication.]

IRRIGATION.

The 9th December 1889.

No. 442.—*Notification.*—In exercise of the powers conferred on him by section 99 of Act III (B.C.) of 1876, the Hon'ble the Lieutenant-Governor proposes to pass the following rule for the Orissa Canals:—

Beali lands in a five-year lease, if not irrigated, are to be exempted from assessment provided "Beali" is not followed by "sarud" or any other *irrigated* crops in the same year.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Benyal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

The 22nd December 1889.

No. 204.—*Notification.*—In exercise of the powers conferred upon him by section 36, clause (2) of Act X of 1889 (The Indian Ports Act), the Lieutenant-Governor is pleased to prescribe the following forms as those in which the accounts of the Chittagong Port Fund are to be kept.

per Register of Payments

Total of month ... ...

Closing Balance as per details below —

GRAND TOTAL ...

nce as above ... ...

Date of receipt.	No. of Treasury challan.	From whom received.	Particulars of receipt.	Port-dues.		
				Rs	a.	p.
		Sanctioned grant				
			Total for the month ...			
			Add Total to end of last month ...			
			Total from 1st April to date ...			

Date.	Number of Voucher.	Number of cheque by which paid.	To whom paid.	Detailed heads.
			Budget Grant ...	
			Total to end of month	
			Add Total to end of last month	
			Total from 1st April to date.	

Position, lat. 15° 0′ S., long. 145° 30′ E.

Also the following information concerning g reef and Sand Bank, lying respectively about 5½ and 7 miles eastward of Two isles :—

g reef, as heretofore charted, does not exist.

Sand bank, now named g reef, is 4 cables in length in an east and west direction, with a width of 2½ cables, it is steep-to, and has a small sandy head near its west extreme which dries 6 feet at low water spring tides ; from this head, cape Flattery summit bears N. 63° W., distant 13$\frac{5}{10}$ miles, and South Direction island N. 18½° W., distant 10$\frac{5}{10}$ miles.

Position, lat. 15° 0½′ S., long 145° 36′ E.

Unsuccessful search for shoal north-west of Look-out point.

FURTHER information has been received that a shoal spit extends in a north-westerly direction from Look-out Point for a distance of 2½ miles, having a least depth of 6 feet, with the summit of the point bearing S. 45° E., distant 2 miles ; it is steep-to on its eastern edge, the water deepening quickly from 2 to 6 and 7 fathoms ; on the north-western side it deepens more gradually.

The position heretofore given for the 2½ fathoms shoal is about 8 cables northward of the extreme of the spit, and depths of 6½ to 7½ fathoms over even ground were obtained around that spot with no sign of shoal water.

Consequent on the foregoing, it is considered that the *Decapolis* grounded on the spit about 2 miles north-west of Look-out point, and the 2½ fathoms shoal has been removed from the Admiralty Charts.

NOTE.—Cape Flattery summit in line with the red beacon on Sand cay (about 2½ miles south-east of Look-out point), bearing S. 38° E., leads eastward of the shoal ground off Look-out point ; and end of range in line with Round hill, bearing S. 82° W., leads 4 cables northward of it.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[First Publication.]

NOTIFICATION No. 208Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 127).

JAPAN.

SIMONOSEKI STRAIT—WESTERN ENTRANCE.

Fixed light on Narusi rock.

THE British Admiralty has given notice (No. 415 of 1889) that on 21st September 1889 a light would be exhibited from the beacon (which has been rebuilt during the present year) on Narusi rock, north side of western entrance to Simonoseki strait :—

The light is a *fixed* white light, visible from the bearing of S. 86°E., through north, to S. 43° W. ; it is elevated 17 feet above high water, and should be seen in clear weather from a distance of three miles.

The beacon, constructed of stone and circular in shape, is painted white.

Position, lat. 33° 54′ 45″ N, long. 130° 54′ 50″ E.

NOTE—The light is kept burning day and night by automatic arrangement without the constant attendance of a keeper. Should the light be extinguished by accident, there may be some delay in re-lighting it.

(*The bearings are Magnetic, and are given from seaward. Variation 4° Westerly in* 1889.)

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[First Publication.]

NOTIFICATION No. 209Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 129).

ARABIAN SEA.

BOMBAY COAST.

"Chaldea Rock" buoy placed in position.

WITH reference to Notice to Mariners, No. 106, dated 26th October last, the Collector of Salt Revenue, Bombay, through the Director of Indian Marine, has given notice that the *Chaldea Rock* buoy was put in its position on the 3rd ultimo.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 28th December* 1889.

[Second Publication.]

NOTIFICATION No. 206Mne.

The 24th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 128).

BAY OF BENGAL.

BURMA COAST.

Position of a water-logged Burmese boat—dangerous to navigation.

A TELEGRAPHIC communication has been received from the Port Officer of Rangoon that the Commander of the Government steamer *Canning* passed a Burmese boat, water-logged, South 55° East, 8 miles from Krishna light-vessel. Ship-masters are cautioned accordingly.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 23rd December* 1889.

[Third Publication.]

NOTIFICATION No. 196Mne.

The 16th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 119).

BAY OF BENGAL.

ORISSA COAST.

Beacons on the "Temple Tree," &c., re-erected.

IN continuation of Notice to Mariners, No. 118, dated the 7th instant, issued by this office, the Port Officer of False Point has given further information that the beacons on the "*Temple Tree*," and over the wreck of the "*Walter Morrice*," have been re-erected.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 14th December* 1889.

[Third Publication.]

NOTIFICATION No. 197Mne.

The 16th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 120).

ARABIAN SEA.

GULF OF CUTCH.

The light at Cutch-Mandvi re-lighted.

WITH reference to Notice to Mariners, No. 105, dated the 26th October last, issued by this office, the Government of Bombay have given notice that the light at Mandvi, Cutch, will be re-lighted on the 21st December 1889. The new light is a 4th order holophotal revolving white light, group flashing, giving three flashes at short intervals every 30 seconds. It is placed on the old Tower, and will be visible at the same distance as the old light, viz., 18 miles.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 14th December* 1889.

[Third Publication.]

NOTIFICATION No. 198Mne.

The 16th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 121).

BAY OF BENGAL.

ORISSA COAST.

A Nun buoy placed in the North Channel, Dhamra river (entrance).

A NUN buoy has now been placed in the North Channel, Dhamra river (entrance), to mark the position of the E. buoy which is reported adrift.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 14th December* 1889.

[Third Publication.]

NOTIFICATION No. 199Mne.

The 16th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 122).

INDIAN OCEAN.

AFRICA—EAST COAST.

Declaration of Conclusion of the Blockade of Zanzibar.

IN continuation of Notice to Mariners, No. 100, dated the 17th October last, issued by this office, the following extract from the *Calcutta Gazette* of the 11th instant is republished for general information:—

In accordance with instructions received from our respective Governments, and in the name of His Highness the Sultan of Zanzibar, we, the Admirals commanding the British and German Squadrons in East African Waters, and the Commander of the Italian Man-of-War "*Staffetta*," hereby declare that the declaration of Blockade against the importation of munitions of war and the exportation of slaves on this coast between 2·10′ south latitude and 10·28′ south latitude, published in Zanzibar on the 29th November last year, and commencing on the 2nd December following, to be annulled from noon on the 1st October next.

E. R. FREMANTLE,
British Rear Admiral.

G. PORCELLI,
Italian Commander.

In the name of the Chief of the Imperial German Flying Squadron.

VALETTE,
Corvette Captain Commanding,
H. M.'s S. "Carola."

Dated at Zanzibar, this 29th day of September 1889.

By order of His Majesty the Emperor, and in the name of His Highness the Sultan of Zanzibar, I declare that, notwithstanding the above said declaration, German ships of was will continue to give chase to slave craft under Arab Flags in East African Waters and bring them up.

Further I declare, that in accordance with my orders, and in conformity with the declaration of the Imperial German High Commissioner, that any importation of arms and material of war on the coast of the Mainland of Africa under German Administration is strictly prohibited.

Zanzibar, 29th September 1889.

In the name of the Chief of the Imperial German Flying Squadron.

VALETTE,
Corvette Captain Commanding,
H. M.'s S. "Carola."

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 14th December* 1889.

[Third Publication.]

NOTIFICATION No. 200Mne.

The 17th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 123).

BAY OF BENGAL.

BURMA COAST.

'Krishna Shoal' Light-vessel replaced in position.

In continuation of Notice to Mariners, No. 116, dated 28th November last, issued by this office, a telegraphic communication has been received from the Port Officer, Rangoon, that the *Krishna Shoal* Light-vessel will be replaced in position on the 19th instant, and the temporary light-vessel now doing duty removed.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 16th December* 1889.

[Third Publication]

NOTIFICATION No. 201Mne.

The 17th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 124).

CHINA SEA.

SINGAPORE—NEW HARBOUR.

The Bell Buoy on the Ajax Shoal replaced by a Light-ship.

THE following Hydrographic Notice issued by the Master-Attendant, Straits Settlements, dated Singapore, 18th November 1889, is republished for general information :—

On and after the 1st February 1890, the Bell Buoy on the Ajax Shoal in Salat Sinki, or western approach to the New Harbour of Singapore, will be replaced by a Light-ship exhibiting a white revolving light, showing a flash every half minute, visible ten miles in clear weather, and elevated 38 feet above the sea. The Light-ship will be painted yellow with the word *Ajax* in white letters on a black ground painted on her sides ; a caged ball painted red will be shewn at the mast-head.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 16th December* 1889.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 11646, *dated* 28*th December* 1889.—Assistant Surgeon Ganes Chandra Mitra, Resident Assistant Surgeon, Campbell Medical School and Hospital, is allowed leave for 78 days under article 291 of the Civil Service Regulations, with effect from 1st February 1890.

No. 11648, *dated* 28*th December* 1889.—Assistant Surgeon Durlabh Chandra Datta, a supernumerary at the Presidency, is appointed to act as Resident Assistant Surgeon, Campbell Medical School and Hospital, during the absence, on leave, of Assistant Surgeon Ganes Chandra Mitra.

No. 11655, *dated* 28*th December* 1889.—Assistant Surgeon Kali Prosanno Chowdry, in medical charge of the Charitable Dispensary at Burdwan, is allowed leave for one month and fifteen days under article 291 of the Civil Service Regulations..

No. 11657, *dated* 28*th December* 1889.—Assistant Surgeon Kasi Nath Ghosh is appointed temporarily to have medical charge of the Charitable Dispensary at Burdwan during the absence, on leave, of Assistant Surgeon Kali Prosanno Chowdry, or until further orders.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

EDUCATION DEPARTMENT, BENGAL.

Prize Essay for Native Ladies.

THE following subject has been selected for Babu Brajamohan Dutt's Prize of Rs. 40 for the year 1889-90:—

"The present condition of Bengali Women."

The conditions for the award of the prize are—

(1) That the competition be open to all educated women, being natives of Bengal, without regard to age.

(2) That the prize be given for an essay, to be written in either Bengali or Sanskrit.

(3) That the essays be sent to the Central Text-Book Committee for adjudication within six months of the date of advertisement.

(4) That each essay be accompanied by the written declaration of the husband, parent, or guardian of the competitor that, to the best of his belief, she has received no assistance of any kind, direct or indirect, in writing the essay.

Candidates are requested to send their essays, not later than the 30th June 1890, to the Secretary to the Central Text-Book Committee, Office of the Inspector of Schools, Presidency Circle, Calcutta. The envelope containing the essay should be superscribed "Brajamohan Dutt Prize Essay." The name of the successful competitor will be published in the *Calcutta Gazette*.

The winner of the prize in any year may, if she pleases, again compete. If she is adjudged to have sent in the best essay in such subsequent competition, her name will be published in the *Gazette*, but the prize will be awarded to the next eligible candidate.

No prize will be awarded if, in the opinion of the judges, the best essay sent in is not such as to deserve a prize.

A. CROFT,
Director of Public Instruction.

The 28*th December* 1889.

NOTIFICATIONS OF THE BOARD OF REVENUE.

No. 1494B.

NOTICE is hereby given that the First Sale of Opium, the Provision of 1887-88 will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Monday, the 6th January 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 11th and 21st January 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 11th January 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 21st January 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the next year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghareepore Factory, about chests	Total, about chests.
On or about Monday, 3rd February	1890	...	2,250	2,500	4,750
On or about Monday, 3rd March	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,		2,250	2,500	4,750
On or about Thursday, 1sth May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2 250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	..	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
Total		...	24,750	27,500	52,250

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Fort William, the 3rd December* 1889.

No. 1562B.

CUSTOMS
HON'BLE F. B PEACOCK.

THE following rules, framed by the Board of Revenue under Sections 9 and 105 of the Sea Customs Act VIII of 1878, for regulating the removal of salt warehoused at Chittagong to be re-warehoused at Naraingunge, having received the sanction of the Lieutenant-Governor, are published for general information.

BOARD OF REVENUE, L.P.,
Fort William, the 18th December 1889.

K. G. GUPTA,
Offg. Secretary.

1. When any owner of salt warehoused at Chittagong intends to remove it under section 105 for the purpose of being re-warehoused at Naraingunge, an application in writing, specifying the name, tonnage, and master's name of the vessel intended to convey the salt shall be made to the Collector of Customs, Chittagong, before 3 P.M. on the day prior to that on which it is proposed to remove the salt.

2. The salt shall be conveyed from Chittagong to Naraingunge by such vessels only as are approved by the Collector of Customs, Chittagong. Each vessel must carry a special pass in the annexed form under the signature of the Collector of Customs, Chittagong, covering the consignment of salt shipped in it.

3. The salt can only be removed from Chittagong under a bond to be executed by the bonder in conformity with the requirements of section 106 of the Sea Customs Act. The bond shall be in the form appended to these rules. Port clearance shall not be granted till after the due execution of the bond and after the quantities entered in the tally books have been found to agree with those entered in the manifest (or cargo books) of such vessel or vessels. Single bonds may be accepted for any quantity of salt not exceeding 20,000 maunds, and shall cover all the vessels being loaded with the quantity of salt for which the bond, in each case, is given, and such vessels must, in each case, be named in the bond. The number

and date of the bond are to be noted in the pass which accompanies each vessel, and in the copies of the pass retained by the Collector of Customs, Chittagong, and forwarded to the Collector of Customs, Naraingunge, respectively.

4. When the discharge of salt from the warehouse at Chittagong for conveyance under bond to Naraingunge is interrupted, or not completed, such quantity as has been actually delivered at the time of interruption shall be covered by a Customs boat-note. The salt so delivered must also be completely stamped over, and the hatches and all access to the hold must be sealed by Custom seals, to be examined by the night Customs Inspector, who must record his report of each such inspection.

5. The salt when placed on board must be stamped all over and conveyed under sealed hatches. Both the seals on the hatches and the stamps on the salt as reported on clearance by the Collector of Customs at Chittagong shall be separately examined and reported on by the Salt Darogah or other officer deputed by the Collector of Customs, Naraingunge, to the Collector of Customs, Naraingunge, on receipt of whose orders on the report the seals may be broken and the salt weighed.

6. The vessel on arrival at Naraingunge shall be anchored as close as possible to the ghât leading to the warehouse in which the salt is to be stored, or at the nearest moorings to such ghât.

7. The weighment of the salt shall be made in the presence of the Salt Darogah or other officer deputed by the Collector of Customs, Naraingunge, and a Customs peon shall invariably remain with the salt until the weighment shall have been completed. Weighment of the salt shall be made, as a general rule, on board the importing vessel. It will, however, be competent to the Board, on sufficient cause being shown, to permit the salt of any bonder to be weighed after removal to the shore, under such suitable precautions, to be taken at the sole expense of the bonder, as may be prescribed by the Collector of Customs, Naraingunge, and approved by the Board.

8. The owner of the salt shall be required to pay full duty on any difference between the quantity of salt weighed out of bond at Chittagong and the quantity weighed out of the brig or steamer at Naraingunge, less an allowance of one per cent. on the quantity weighed into each vessel for wastage during the passage, if such wastage actually occurs.

9. The salt shall be stored under proper supervision in a licensed warehouse immediately the weighment shall have been made. The door of the warehouse shall have two locks; the key of one lock (which must be a Chubb's lock) shall remain with the Darogah or other officer deputed by the Collector of Customs, Naraingunge, and the key of the other with the bonder's agent.

10. The bonder will be required to defray the cost of the preventive officers, and all charges attendant on the weighing of the salt, both at Chittagong and Naraingunge, such weighments being conducted as laid down in the Board's rules for weighing salt intended for bond at Chittagong.

11. Both Customs officers and the exporter's agent will be required to certify at the end of each day's weighment the correctness of the tally books for that day's work.

12. The working hours with regard to delivery and weighment of salt shall be from 6 A.M. to 3 P.M., or such other hours as may be fixed from time to time by the Collector of Customs, with the approval of the Commissioner.

13. If from any cause the weighments cannot be completed in one day, extra peons as may be considered necessary by the Collector of Customs shall be appointed to guard the salt, the cost being borne by the bonder.

14. The duty on the warehousing bill-of-entry shall be calculated on the whole quantity delivered on weighment from the vessel or vessels covered by the bond. As salt is cleared from bond, the quantity as entered in the clearance bill-of-entry shall be noted on the warehousing bill-of-entry and duty paid accordingly. When the last quantity of salt under each bond is cleared, the bonder shall make good the deficiency, if any, between the amount of duty originally entered in the warehousing bill-of-entry and the total amounts of duty paid, less an allowance on account of wastage, if such wastage has actually occurred, which shall not exceed 2½ per cent. on the whole quantity warehoused.

15. In addition to the above rules, the rules contained in sections VII and IIX of the Salt Manual shall apply generally to all salt conveyed under bond from Chittagong and warehoused at Naraingunge.

16. Before permission can be given to transport salt warehoused at Chittagong to Naraingunge, under bond, the bonder will be required to construct a suitable warehouse at Naraingunge, to be approved by the Collector and licensed by the Chief Customs authority, together with suitable accommodation for the warehouse establishment, also to be approved by the Collector. The bonder will also be required to enter into an agreement with the Collector to defray the cost to Government of the establishment noted in the margin, which will be appointed by the Collector for the guard and supervision of the warehouse.

	Rs.
1 Darogah on	50
2 Peons at Rs. 6 each ...	12
Cost per monsem	62

17. The rules contained in paragraphs 5, 11 and 18 of section II of the Salt Manual shall apply generally to the appointment and payment of this establishment, and to the construction and repair of the warehouse and establishment accommodation.

These rules shall come into force from 1st January 1890.

I

SPECIAL SALT PASS.

Under Bond No. , *dated*

NON-DUTY PAID

Serial number
Bonder's name
Name of importing ship
Nationality
Master's name
Whence imported
Description of salt
Quantity despatched to Naraingunge in maunds
Date of despatch to Naraingunge
Whether from ship-board or golah
Name of vessel by which despatched
Master's name
Number of stamps on salt
Ditto of seals on hatches
Current for days
Date
Signature of Customs Collector, Chittagong

II

(To be forwarded by post to Collector of Customs, Naraingunge.)

SPECIAL SALT PASS.

Under Bond No. , *dated*

NON-DUTY PAID

Serial number
Bonder's name
Name of importing ship
Nationality
Master's name
Whence imported
Description of salt
Quantity despatched to Naraingunge in maunds
Date of despatch to Naraingunge
Whether from ship-board or golah
Name of vessel by which despatched
Master's name
Number of stamps on salt
Ditto of seals on hatches
Current for days
Date of clearance from Chittagong
Signature of Customs Collector, Chittagong

III

(To be given to Masters of vessels by which despatched.)

N. B.—This pass must invariably accompany the salt in transit.

SPECIAL SALT PASS.

Under Bond No. , *dated*

NON-DUTY PAID.

Serial number
Bonder's name
Name of importing ship
Nationality
Master's name
Whence imported
Description of salt
Quantity despatched to Naraingunge in maunds
Date of despatch to Naraingunge
Whether from ship-board or golah
Name of vessel by which despatched
Master's name
Number of stamps on salt
Ditto of seals on hatches
Current for days
Date of clearance from Chittagong
Signature of Customs Collector, Chittagong

Seal.

KNOW all men by these presents that we

are held and firmly bound unto the Secretary of State for India in Council in the sum of Rupees of lawful money of British India to be paid to the said Secretary of State in Council, his certain attorney, successors and assigns, for which payment to be well and truly made, we bind ourselves, our heirs, and representatives jointly, and every two of us bind ourselves, our heirs, and representatives jointly, and each of us binds himself, his heirs, and representatives severally firmly by these presents sealed with our respective seals dated this day of one thousand eight hundred and eighty . And each of us the said doth hereby, for himself, his heirs, and representatives, covenant with the said Secretary of State in Council, his successors, and assigns, that if any suits shall be brought touching the subject-matter of this obligation or the condition hereunder written in any court subject to the superintendence of the High Court of Judicature at Fort William in Bengal other than the said High Court in its original jurisdiction, the same shall and may, at the instance of the said Secretary of State in Council, be removed into, tried, and determined by the said High Court in its extraordinary original jurisdiction.

The full amount of duty payable.

WHEREAS the said

is the of the ship or vessel called the of the burthen of tons, and the said vessel is laden with maunds of Liverpool Pungah salt non-duty paid transhipped* from , and ready to proceed on a voyage from the port of Chittagong to the port of in British India, for which port the said has declared that the said ship is bound:- And whereas the Collector of Customs for the port of Chittagong has refused port clearance to the said ship, unless the said with two sufficient sureties should execute such a bond as above written with such condition as hereunder written, which he the said as principal and the said

(Owner, agent, master, or commander as the case may be.)

* In the case of salt removed from Bond substitute for the word "transhipped," "stored in a warehouse at Chittagong."

as his sureties have agreed to do: Now the condition of the above written bond is such that if the above bounden or some or one of them, their heirs, or representatives shall and do on or before the day of one thousand eight hundred and eighty produce or cause to be produced to the Collector of Customs for the port of Chittagong for the time being, or the officer in charge of the Custom House for the time being, a certificate from the proper officer of the said port of , to which the said ship has been declared bound as aforesaid of her safe arrival on or before the† day of next at the said port, and shall also faithfully observe and perform all the rules for the time being in force as to the removal of non-duty-paid salt under bond to from board ship (or from bond) at Chittagong, then the above written bond shall be void, otherwise to be and remain in full force and virtue.

Signed, sealed, and delivered

† The date to be fixed in respect of salt intended for the port of Naraingunge should be calculated in the manner following:—Within twenty-one days from the granting of the port clearance during the north-east monsoon (*i.e.* from the 16th September to 30th April), or within fifteen days from the date of the granting of port clearance during the south west monsoon (*i.e.*, from the 1st May to the 15th September).

No. 1594B.

NOTICE is hereby given that the Second Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Monday, the 3rd February 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th February 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th February 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th February 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the year 1890 about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 3rd March	1890	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,	...	2,250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	22,500	25,000	47,500

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 30th December* 1889.

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 15th December 1889.

DESCRIPTION OF SALT.	Government golahs.	Private golahs.	Afloat	Total.
	Mds.	Mds.	Mds.	Mds.
Liverpool Punga	9,83,925	.....	1,01,121	10,85,046
Bombay Kurkutch	31,020	.....	.....	31,020
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	6,23,219	... ..	50,247	6,73,466
Aden Kurkutch	86,794	.....	... ..	86,794
Hamburg salt	21,611	.....	47,981	69,592
Total ...	17,46,569	.....	1,99,349	19,45,918

By order of the Board of Revenue, L. P.,

J. SCOBELL ARMSTRONG, *Collector of Customs.*

CUSTOM HOUSE, CALCUTTA, *the 27th December* 1889.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held, under section 27 of Act III (B. C.) of 1884, on Monday, the 24th February next, in Ward I of the Coomarkholly Municipality, for the purpose of filling the vacancy caused in that Ward by Baboo Dina Nath Mazoomdar having absented himself from six consecutive meetings of the Municipal Commissioners.

A. BHATTACHARJEE, *Personal Assistant, for Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., *Calcutta, the 27th December* 1889.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held on the 20th February next in Ward No. III of the Goverdanga Municipality, in the district of the 24-Pergunnahs, for the purpose of electing a Commissioner for that Ward in the place of Baboo Dijaraj Chatterji, who has ceased to be a Commissioner for not attending six consecutive meetings.

A. BHATTACHARJEE, *Personal Assistant, for Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., *Calcutta, the 27th December* 1889.

NOTIFICATION.

IT is hereby notified for general information that the following gentlemen have been elected as members of the several Local Boards in the district of the 24-Pergunnahs :—

Local Boards.	Thanas.		Names of members elected.
ALIPORE	Sonerpore	...	Baboo Narain Dass Chatterjea, M.A., B.L.
	Barripore	...	,, Grish Chunder Dutta.
	Bhangore	...	,, Moti Lall Roy Chowdry.
			,, Nil Kanto Chuckerbutty.
	Joynagore	...	,, Hem Chunder Dhur.
	Tallygunge	...	,, Nundo Lall Sarkar.
	Bistopore	...	,, Mohendra Nath Singha.
			,, Tara Pada Ghose.
	Budge-Budge	...	,, Rajkrishna Mandal.
BARASET	Baraset	...	,, Amar Nath Bosu
			,, Hira Lall Mokerjea.
	Deygunga	..	Moonshi Alli Hafez.
	Nyehatty	...	Syed Fuzlur Rubbi.
	Habra	...	Koche Muddin Mandal.
			Baboo Bani Kanto Mokerjea.
BUSSIRHAUT	Bassirhaut	...	Moonshi Buzlur Rohoman.
	Baduria	...	,, Johoruddin Mondol.
			Baboo Hurish Chunder Mullick.
	Hushnabad	...	Kabil Mondal.
DIAMOND HARBOUR	Diamond Harbour	...	Baboo Nitai Chundra Dass.
			,, Hem Chunder Mitter.
	Bankipore	...	,, Saroda Prosaud Dutta.
			Khoja Bux.
	Kulpi	...	Baboo Baikunta Nath Bosu.
			Moonshi Kazem Ali.
	Mothoorapore	...	Baboo Kamini Mohun Bapuli.
	Debipore	...	,, Rusick Chunder Sikdar.
BARRACKPORE	Barrackpore	...	,, Khettra Nath Chatterjea.
			,, Kedarnath Ghose.
			,, Kali Prosunno Banerjea.
			,, Nobin Krishna Ker.
DUM-DUM	Dum-Dum	...	,, Troy Lukho Nath Haldar.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 28th December* 1889.

The Calcutta Gazette.

WEDNESDAY, JANUARY 1, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders issued by the Government of India, in the Legislative Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS.

Fort William, the 23rd December 1889

No. 31.—His Excellency the Governor-General, under the authority vested in him by the Statute 24 and 25 Vict., cap. 67, section 10, has been pleased to re-nominate the Honourable F. M. Halliday, of the Bengal Civil Service, to be an Additional Member of the Council of the Governor-General for the purpose of making Laws and Regulations, with effect from the 24th instant.

The 27th December 1889.

No. 32.—The Governor-General in Council has been pleased to accept the resignation, by Mr. K. M. Chatterjee, of the office of Reporter for the Indian Law Reports in the High Court, Calcutta, with effect from the 28th ultimo.

No. 33.—Mr. C. D. Panioty, Barrister-at-Law, has been confirmed in the appointment of Reporter for the Indian Law Reports in the High Court, Calcutta, *vice* Mr. Chatterjee, resigned.

S. HARVEY JAMES,
Secy. to the Govt. of India.

The following orders issued by the Government of India, in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to Govt. of Bengal.

NOTIFICATIONS.—ESTABLISHMENTS.

The 27th December 1889.

No. 757.—Sir C. H. T. Crosthwaite, K.C.S.I., resumed charge of the office of Chief Commissioner of Burma from Mr. A. P. MacDonnell, C.S.I., on the forenoon of the 9th December 1889.

J. P. HEWETT,
Under-Secy. to the Govt. of India.

JUDICIAL.

The 26th December 1889.

No. 1772.—The Governor-General in Council has been pleased to accept the resignation tendered by the Hon'ble Romesh Chunder Mitter of his office of Judge of the High Court of Judicature at Fort William in Bengal, with effect from the 1st January 1890.

No. 1776.—APPOINTMENT.—Under the provisions of the Act of Parliament 24 and 25 Vict., cap. 104, section 7, the Governor-General in Council is pleased to appoint Mr. Amir Ali, C.I.E., Barrister-at-Law, to act as a Puisne Judge of the High Court of Judicature at Fort William in Bengal, until Her Majesty's pleasure is known.

A. P. MACDONNELL,
Secy. to the Govt. of India.

The following order issued by the Government of India, in the Department of Finance and Commerce, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

STATISTICS AND COMMERCE.

CUSTOMS.

The 23rd December 1889.

No. 3028.—In exercise of the powers conferred by section 23 of the Sea Customs Act, 1878, the Governor-General in Council exempts from the export duty to which it is liable under the Indian Tariff Act, 1882, all rice exported by sea and entered outwards for either of the French ports of Pondicherry and Karikal, or passing by land into either of those settlements.

This exemption shall commence on the 23rd day of December 1889, and shall continue in force until the 31st day of March 1890, inclusive.

J. F. FINLAY,
Offg. Secy. to the Govt. of India.

The following orders issued by the Government of India, in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 27th December 1889.

FURLOUGH AND LEAVE.

No. 1082.—The undermentioned officers have been granted extensions of furlough by the Secretary of State for India :—

* * * * * *

Surgeon-Major E. A. Birch, M.D., (m.c.) for three months.

JUDICIAL.

No 1083.—G. G. O. No. 1066, dated the 20th December 1889, is republished for information :

Dated the 20th December 1889.

No. 1066.—The following draft of proposed rules under section 26, clause 21, of the Cantonments Act, 1889, is, as required by section 27 of that Act, hereby published for the information of persons likely to be affected thereby.

The draft will be taken into consideration on the expiry of three months from the date of this notification—

DRAFT RULES.

Under section 26, clause (21), and section 27, sub-sections (2) and (4), of the Cantonments Act, 1889, the Governor-General in Council is pleased to make the following rules, and to direct that they shall be general for every cantonment in British India :—

1. As many hospitals as may be necessary, within or without the limits of the cantonment, as the Cantonment authority with the concurrence of the District Magistrate may determine, shall be maintained at the expense, wholly or in part, of the Cantonment Fund, for the treatment of persons suffering from infectious or contagious disorders.
2. A medical officer, to be appointed in such manner as the Local Government may direct, shall be in charge of every such hospital.
3. A person admitted to such a hospital shall be treated gratuitously, and if such person is without means of support, and is either a resident of the cantonment or was admitted to the hospital on the request of the Cantonment authority, or of any officer of that authority, shall receive from the Cantonment Fund such subsistence allowance, not being less than the lowest allowance for the time being fixed by the Local Government under section 338 of the Code of Civil Procedure, as the Cantonment authority may determine.
4. If the medical officer for the time being in charge of a hospital maintained under these rules for the treatment of person suffering from any infectious or contagious disorder, certifies in writing to the Commanding Officer of the cantonment that any person is suffering, or is supposed by such medical officer to be suffering, from the disorder, and such person either refuses to go to the hospital, or, having gone to the hospital, leaves it before such medical officer has pronounced such person to be free from the disorder, the Cantonment Magistrate may, on the application of such medical officer, order such person to remove from the cantonment within 24 hours, and prohibit such person from remaining in or re-entering it without the written permission of such medical officer.
5. If a person having been prohibited under the last foregoing rule from remaining in or re-entering a cantonment, remains in, or re-enters the cantonment without such written permission as is mentioned in that rule, such person shall be punished with fine which may extend to fifty rupees, or with imprisonment for a term which may extend to eight days, for every breach of the said prohibition.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The following Extraordinary issued by the Government of India, Foreign Department, is republished for general information.

JOHN EDGAR,
Chief Secy to the Govt. of Bengal.

NOTIFICATION.

Fort William, the 30th December 1889.

No. 4879*I*

HIS ROYAL HIGHNESS THE PRINCE ALBERT VICTOR OF WALES is expected to arrive at Calcutta on Friday, the 3rd January 1890, between 3-30 and 4-30 P.M. A Royal Salute will be fired from the Ramparts of Fort William as soon as the vessel upon which His Royal Highness is embarked arrives off Prinsep's Ghât.

At 4 P.M. a deputation, consisting of the Chief Secretary to the Government of Bengal, the Military Secretary, and an Aide-de-Camp to the Viceroy will wait upon the Prince Albert Victor of Wales.

At 4-30 P.M. His Royal Highness, attended by his Suite, will land at Prinsep's Ghât, under a Royal Salute from the Ramparts of Fort William. The Salute will be fired as His Royal Highness steps ashore.

A Guard of Honour, furnished by the Calcutta Volunteers, will be drawn up at Prinsep's Ghât, and a Guard of Honour of Native Infantry will be drawn up outside the Colonnade. The Pontoon will be lined by the Calcutta Naval Volunteers.

The Viceroy, attended by His Excellency's Personal Staff, and the Lieutenant-Governor of Bengal, attended by His Honour's Staff, will receive His Royal Highness on the Pontoon.

The Commander-in-Chief, the Chief Justice of Bengal, the Bishop of Calcutta, the Members of Council, the Puisne Judges of the High Court of Bengal, and the Officers noted in the margin, will be in attendance at the landing stage. The Foreign Consuls in Calcutta will also be invited to attend at the same place. The Commander-in-Chief, the Chief Justice, the Bishop, the Members of Council, and the Brigadier-General Commanding, will be presented to the Prince Albert Victor of Wales by the Viceroy.

Additional Members of the Council of the Governor-General.
Secretaries to the Government of India.
Members of the Bengal Legislative Council.
The Commissioner of the Presidency Division.
Secretaries to the Government of Bengal.
The Head-quarters Staff of the Army in India.
Brigadier-General Commanding the Presidency District.
The Deputy Director of Indian Marine.
The Commander-in-Chief's Personal Staff.
The Chairman of the Corporation of the Town of Calcutta.
The Vice-Chairman of the Port Commissioners.
The Sheriff of Calcutta.

His Highness the Maharaja of Kuch Behar, G.C.I.E., Nawab Sir Sayid Hasan Ali Khan Bahadur, K.C.I.E., of Moorshidabad, Premier Noble of Bengal, and Maharaja Sir Jotindra Mohan Tagor, K.C.S.I., President of the Reception Committee, will be introduced to His Royal Highness by the Viceroy.

The Prince will then receive an address from the City of Calcutta.

Tickets will be issued by the Commissioner of Police to admit ladies and gentlemen to the enclosure, in such number as the space available will permit.

The route of the procession from Prinsep's Ghât to Government House will be across the Maidan by the Ellenborough Course to the top of the Red Road, and thence to the North-East Gate of Government House. It will be lined throughout by troops under the orders of the Brigadier-General Commanding the Presidency District.

A procession will be formed at Prinsep's Ghât in the following order:—

PROCESSION.

A Staff Officer, Presidency District.

A Troop of Native Cavalry.

The Officers of the District Staff on horseback.

The Calcutta Mounted Volunteers.

A Troop of the Viceroy's Body-Guard.

The carriage containing—

HIS ROYAL HIGHNESS THE PRINCE ALBERT VICTOR OF WALES.	HIS EXCELLENCY THE VICEROY.
An Equerry in immediate attendance upon His Royal Highness.	An Aide-de-Camp to His Excellency the Viceroy.

A Troop of the Body-Guard.

The Commissioner of Police will ride at the side of the Prince's carriage.

The Viceroy's carriages containing—

Sir Edward Bradford, K.C.S.I., and others of His Royal Highness's Suite.

The Viceroy's Staff and Guests.

A Troop of Cavalry.

The procession will enter the North East Gate of Government House.

A Guard of Honour of British Infantry will be drawn up opposite the Grand Staircase of Government House.

The Body-Guard will form up on the north side of the road between the Grand Staircase and the North-West Gate.

When the Prince Albert Victor of Wales enters the North-East Gate, a Royal Salute will be fired from the Ramparts of Fort William. His Royal Highness will enter Government House by the Grand Staircase, and the ceremony of reception will be at an end

Officers and Gentlemen wearing uniform will appear in full dress Gentlemen not wearing uniform will appear in morning dress.

By order of the Viceroy and Governor-General in Council,

W. J CUNINGHAM,
Offg. Secy. to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, JANUARY 1, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 28th December 1889.—It is hereby notified that, under section 19, Act III (B C.) of 1885, Shah Atta Hossain has been elected by the members of the Sasseram Local Board in the district of Shahabad to be a member of the District Board of Shahabad, *vice* Mr. W. M. Reid, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th December 1889.—It is hereby notified for general information that, in exercise of the power vested in the Local Government by clause 2, section 80 of Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to exclude from the operation of the said Act the Chuprah dead-house road, east of the jail garden, lying within the limits of the Chuprah Municipality. The Lieutenant-Governor is also pleased to authorize the transfer of the road described above to the charge of the District Board of Sarun.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th December 1889.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Kumar Gopendra Krishna Deb, Joint-Magistrate, Sealdah, to be a Commissioner of the Manicktolla Municipality, in the district of the 24-Pergunnahs, *vice* Mr. Kedar Nath Roy, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th December 1889.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Mahamed Azzal Hug, to be a member of the Bhola Local Board, in the district of Backergunge, *vice* Mr. J. H. Mogose, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—It is hereby notified that under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Ambica Pershad to be a Commissioner of the Sitamarhi Municipality in the district of Mozufferpore, *vice* Adhicari Deo Narain Dass, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—Whereas a notification, dated the 14th May 1889, was published at page 112, Part IB of the *Calcutta Gazette* of the 22nd idem, declaring the intention of the Lieutenant-Governor to extend the provisions of Part IX of Act III (B.C.) of 1884 to the Khoolna Municipality, and whereas no objection has been raised to the proposal within one month from the date of the publication of the above notification within the Municipality, it is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 221 of the Act, and in accordance with the recommendation of the Commissioners of the Khoolna Municipality, made at a meeting, the Lieutenant-Governor sanctions the extension of Part IX of the Municipal Act to the portion of the Municipality defined below—

It is bounded on the North by the river Bhayrub and a line drawn from the first level-crossing to the Bengal Central Flotilla Company's docks; on the East by the river Rupsha; on the South by a line from the cart bridge over Shahebkhali and by the road through Tootpara joining and going along Babukhan's road, then passing by south of Anerulla Chaprasi's house and along the new road on the west of drain No 8, then along the road south of Mirzapur *mát*, and then along the road going westward to join west Bana Khamar road; and on the West by Boroda Roy's road and the Jessore road up to the first level-crossing.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Mr. F. W. Duke, Joint-Magistrate, and Baboo Sadanand Jha to be members of the Bhagulpore Local Board, *vice* Mr. C. P. Caspersz, transferred, and Baboo Nunda Lal Misser, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Munshee Sultan Mohomed to be a Commissioner of the Cuttack Municipality, *vice* Munshee Mohomed Atahar, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the Deputy Inspector of Schools, Gya, to be a member of the Gya Local Board, *vice* Moulvie Muzhar Imam, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—In the notification, dated the 10th December 1889, published at page 272, Part IB, of the *Calcutta Gazette* of the 11th idem, containing the names of the elected and appointed members of the Ranaghat Local Board—

For "Baboo Sri Krishna Roy" and
" Prialall Choudhuri"
Read "Baboo Shiba Krishna Roy" and
" Prio Lall Paul Chowdhury."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 30th December 1889.—It is hereby notified that, under section 24 of the Bengal Local Self-Government Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to re-appoint the Magistrate of Hooghly to be the Chairman of the Hooghly District Board, with effect from the 19th December 1889.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 31st December 1889.—It is hereby notified that, under section 11, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the Local Boards in the district of Dacca mentioned against their names :—

Name of Local Board.	Name of Member.
Sudder	Baboo Rajani Kanta Choudhury. „ Kali Prosanno Ghose. Moulvie Mohamed Abdul Majid. „ Zaharal Huq.
Manikgunge ...	Baboo Baman Das Sen, L.M.S. Munshi Nural Islam. Baboo Soshi Bhusan Roy.
Munshigunge ...	Munshi Khobirulla. Choudhury Aminuddin. Baboo Tara Kanta Das. „ Prem Binoda Pal Choudhury. Munshi Mahamed Abdul Ghani.
Naraingunge ...	Moulvie Kumeruddin. Choudhury Khoaj Bux. Moulvie Fakiooddin.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 28th December 1889.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Dacca Municipality for a public purpose, viz., for extending the premises of the water-works in the town of Dacca, station Lalbag, zillah Dacca, it is hereby declared that for the above purpose a piece of land measuring, more or less, 9 cottahs and 5 dhoors of standard measurement, is required. The land is bounded on the North and East by the land of Gopi Ghose, Radha Nath Bose, Nunda Kumar Dutta and others, and on the South and West by a lane.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, JANUARY 1, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 10th January 1890 for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
73 Separate account No. 15.	Kirthat, pergunnah Khargram.	1,931 10 0	.....	16g. 3kag 13til 2kara.	Jadab Lal Bondyopadyaya.	97 15 0	....	2 15 10
75	Turigram, pergunnah Shahajadpur.	1,508 0 0	The whole	.....	Shekh Tarifullah ..	.....	21 9 0	..
170 Separate account No. 293.	Akuni, pergunnah Swarupaluha.	1,632 10 0	... ..	1a. 10g.	Purna Chandra Shome	171 12 8	.....	0 3 5

Beerbhoom Collectorate, the 5th November 1889. M. K. Bose, Deputy Collector in charge.

NOTICE is heerby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Jessore will be put up for sale at the Collector's Office of that district on Friday, the 10thJanuary 1890, corresponding 27th Pous 1296 B.S., for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P
192	Madhabpasa, pergunnah Isafpur.	2,587 2 4	... .	Hisya No. 1	Raj Kumar Roy and others.	305 6 8½	... .	19 5 8½
193	Madhubpur, pergunnah Mohamedshahi.	559 1 7	...	Do. No. 1 . ..	Bhuban Mohini Dasya and others.	129 10 5	.....	1 12 11
268	Srirampur, pergunnah Isafpur.	39 1 6	.....	Do. No 1 ...	Modhu Sudan Baksi and others.	626 1 0	...	81 8 5
3295	Gonkadaspur, pergunnah Ukhra.	5,169 0 7	.....	Do. No. 6	Bama Churn Chowdhry.	25 2 2	.....	6 5 7

Jessore Collector's Office, the 2nd December 1889. A. Gupta, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 8th January 1890, corresponding with 25th Pous 1296 B.S., for the kist ending with 28th September 1889, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1408	Abu Mahamud taluq, pergunnah Bozergomedpur.	2,965 4 1	.....	6a. 1½g. 2kts. Ijmali share.	Lal Mahomed and others.	1,127 3 5½	.....	61 2 10½
1416	Bancharam Basu taluq, pergunnah Bozergomedpur, hissa 8 annas.	1,550 5 3	...	2a. Ijmali share ...	Jogodiswari Chaudhurain.	190 9 8	.....	52 14 9
1415	Durgapur Tosr, pergunnah Bose gomedpur.	820 4 10½	.....	10a. Ijmali share ...	Dakhina Kumar Roy Choudhury and others.	513 11 0½	.....	60 11 11½
1478	Gouri Kanta and Radha Kanta Bhattacharji taluq, pergunnah Bozergomedpur	596 5 4	....	6a. 2½g. Ijmali share...	Jogodiswari Chaudhurain.	228 4 7	.....	55 14 10½
1487	Jiban Krishna Sen, Hari Krishna Sen, Kamal Krishna Sen, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½kt. Ijmali share.	Jogodiswari Chaudhurain and others.	978 13 0½	.....	174 3 11
	Gobinda Deb Roy, Pran Manikya Chandra Roy, Durga Narayan Roy, and Mirtunjay Mukerjee taluq, pergunnah Bozergomedpur.							
1579	Panioty Alexander taluq, pergunnah Bozergomedpur.	4,833 12 0½	.....	2a. Ijmali share ...	Ditto ditto ...	604 3 2½	.....	179 5 1½
1585	Radha Krishna Roy, Harananda Roy, Kali Das Sidhanta taluq, pergunnah Bozergomedpur.	2,436 10 10	.....	5a. 14½g. 1½kt. Ijmali share.	Ditto ditto ...	874 11 7	.....	215 4 5½
1628	Ramna Homna Tosr Mohamed Safi taluq, pergunnah Bozergomedpur.	9,487 10 8	.....	8a. 15½g. 19 15 0½ 2kts. Ijmali share.	Golam Ahad Chowdhuri and others.	10,676 12 1	.....	2,044 15 4½
33	Ram Raju Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ...	Jogodiswari Chaudhurain.	257 14 2½	.....	76 8 7
1633	Ditto ditto ...	2,062 2 11½	... ..	3a. share under separate account.	Taramoni Debya ...	386 10 7	.....	120 12 10
1651	Ramjan Bibi, Farjana Bibi and Sahurudoin Kasi taluq, pergunnah Bozergomedpur.	565 0 7½	.. ...	2a. share under separate accounts.	Rahamjan Bibi ..	70 10 10	.....	14 14 8
1721	Pergunnah Chandra Dip, &c., hissa 2a. 13½g. 3kts.	13,916 5 10	.. ...	3a. 13½g. 1½t. share under separate account.	Mr. C. Panioty, executor to the estate of Mr. Theodaras Constantine Panoity and others.	3,189 2 9	. ...	1,173 8 1
1722	Pergunnah Ditto, hissa 2a 16g 1kt.	14,464 10 1½	.....	Ditto.	Ditto	3,314 13 0	.....	2,416 15 0
1725	Mouzah Chikni-Kandi, hissa 8½a., pergunnah ditto	3,382 8 1	.....	6a 17½g 2kt. Ijmali share.	Kali Mohan Sen and others.	1,479 8 7	.....	24 3 0
1727	Ditto 7a pergunnah ditto.	2,615 13 10	.....	5a 2½g 1½ Ijmali share.	Ditto.	902 2 11	.....	40 7 10
1739	Khajeh Nur taluq, hissa 5a 6½g, pergunnah ditto.	2,525 3 1½	Whole estate.	.....	Wazedennessa Khatoon, mother of Mahamud Ismail Khan Chaudhuri and others.	... .	675 11 3	.....
1764	Pergunnah Dakhin Shahabazpur, hissa 3a 1½g 1kt.	8,543 6 8	Ditto.	... .	Mr. A. Thomas and others.	.....	1,745 14 11	.....
1916	Tapneh Habili Silimabad, hissa 10g.	1,045 7 9½	.....	5½a Ijmali share.	Bama Sundari Gupta and others.	359 6 2½	.. ...	63 11 6
1994	Bishonath Sen taluq, pergunnah Khanja Bahadurnagore.	570 0 11½	Whole estate.	.....	Raj Kumar Sen and others.	.....	142 6 5	.....
2749	Durgaseneswar taluq, pergunnah Utter Shahabazpur.	1,037 11 2	.....	2a. 13½g. 1kt. share under separate account.	Abdul Aziz Chowdhuri	172 15 1	.....	66 2 2
3257	Pergunnah Ratandi Kalikapur, hissa 4 annas.	6,309 6 10	.....	½a. Ijmali share ...	Jogodiswari Debya ...	197 2 6	.....	30 12 3
3257	Ditto ditto ...	6,309 6 10	.....•	15g. share under separate account.	Iswar Chandra Roy ...	296 12 1	.....	80 15 4
3258	Ditto ditto ...	6,309 6 10	.. ...	6½g. 2kt. Ijmali share	Jogodiswari Debya ...	181 7 4	.....	34 12 7½
3258	Ditto ditto ...	6,309 6 10	.....	½a. share under separate account.	Iswar Chandra Roy and others.	197 2 9	.....	76 6 3
3263	Pergunnah Sahazadpur, hissa 2a. 10½g.	581 7 6	Whole estate.	.....	Nobin Kishore and others.	.....	182 14 5	.....
3305	Tappeh Abdullapur, hissa 10a. 13g.	2,367 13 0	Ditto ...	.....	Durga Charan Pal and others.	.....	62 2 11	.....
4897	Chur Karnokati, pergunnah Chandradip.	1,226 0 3	.....	8a. 13½g. 1kt. Ijmali share.	Mrs. D. Panioty ...	281 2 5	.....	22 10 9
4757	Chur Madunpura, pergunnah Ratandi Kalikapur.	1,139 0 0	Proprietary right of whole estate.	.....	Rajendra Chandra Roy Chaudhury and others.	.....	639 0 0	.....
5211	Kumaria Chur, hissa 13a. 18½g. 1kt., pergunnah Utter Shahabazpur.	1,169 0 0	.....	8a. 8g. 2kt. 11½ktl., Ijmali share.	Durga Prasanna Roy and others.	259 5 0	.....	18 6 1½
5211	Ditto ...	1,169 0 0	.....	1a. 11g. 2kt. share under separate account.	Krishna Kumar Das...	113 14 0	.....	1 1 3

1	2	3	4	5	6	7	8	9
Towji o.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
6231	Nalgara Chur, pergunnah Dakhin Shahabazpur.	Revenue— 1,595 13 5 Malikana— 177 5 0	Howladari rights of whole estate.	.....	Raj Kumar Bhaduri ..	.....	1,604 6 8	.....
		1,773 2 5						
6413	Tappeh Azimpur and pergunnah Tahapur. Thak No. 1632, mouzah Darichur Lakshmipura *alias* surplus alluvial accretion to estate Khalsai Chur.	628 0 0	Proprietary right of whole estate.	.....	Abdul Majid Kazi Chowdhury.	.....	198 0 0	.....
6441	Tappeh Sultanabad, hissa 1⅓*g.* 1*kt.* Gaibadanbibi.	963 11 3	Whole estate.	.....	Syed Mozzum Ali Chowdhury and others	.....	74 12 5	. .
6442	Ditto, hissa 1½*a*, Salima Begum.	2,169 5 3	Ditto ...	.....	Ditto ditto ..	.....	103 4 3	.....
6443	Ditto, hissa 1*a.* 15*g.* Syed Uzir Alial Hosani Choudhury	2,529 11 5	Ditto ...	... ..	Ditto ditto ...	.....	196 5 7	.....
6449	Ditto, hissa 7*g.*, Asimonessa Khatoon.	542 1 4	Ditto	.....	Ditto ditto ...	.....	7 0 11	... ..
6454	Thak No. 1651 surplus alluvial accretion to Ilsa Chur.	865 0 0	Proprietary right of whole estate.	.....	Durga Mohun Dass and others.	.....	1295 B. S.— 865 0 0 Current year— 150 0 0	.....
							015 0 0	

Backergunge Collectorate, the 27th November 1889. H. SAVAGE, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Chumparun will be put up for sale at the Collector's Office of that district on 4th January 1890, Saturday, corresponding with 28th Pous 1297 Fusli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
777	Estate Roopoulia Khasi, pergunnah Mehsi.	631 10 4	Whole ...	.....	Babu Deo Nandan Singh and others.	.....	66 4 0	.... .
613	Estate Mehsi Khas, pergunnah Mehsi.	763 8 9	Do. .	.....	Ditto	.....	61 11 0	.... .
409	Estate Parsowni Khem, pergunnah Mehsi.	3,195 11 9	.....	12*a.*	Ditto	2,396 13 10	.	168 7 4
215	Estate Jogoulia, pergunnah Mehsi.	3,201 1 1	.....	3*a.* 9*p.*	Babu Deo Nandan Singh.	750 4 0	.....	210 7 6
282	Estate Dilamerpore, pergunnah Mehsi.		Whole	.. ..				
	Village Dilamerpore .		Do. .	.....				
	Do. Rampur Jatha.							
	Do. Halim Nagar *alias* Taraura	693 3 0	Do. ...	.....	Mussamut Mahbuttunisa and others	576 13 3	.....	54 11 10
	Do. Bishunpore Ruthi.		.....	4*a.* 14*g.* 2*c.* ...				
	Do. Raghunathpore		.....	3*a.* 9*g.* 3½*c.* ...				
626	Estate Madhopore, pergunnah Mehsi.		.....					
	Village Bishumbharpore.		Whole ...	.....				
	Village Sersia Gunga.		Do. ...	.....				
	Do. do. Ganesh.	764 1 5	Do. .	.....				
	Do. Halim Nagar *alias* Taraura.		Do. ...	.....	Ditto	647 11 6	.....	53 4 8
	Do. Bishunpore Ruthi.		.....	3*a.*				
	Do. Raghunathpore		.....	4½*g.*				

Chumparun Collectorate, Motihari, the 28th November 1889. A. W. B. POWER, Collector of Chumparun.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on 6th January 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
106	Pergunnah Nurullapur, hisya 10*a.* 13*gds.* 1*kr.*, Maulvi Abdul Ali.	2,199 4 11½	.....	Residue share ...	Maulvi Abdul Hye and others.	1,924 6 4	.....	448 8 9½
				Hisya 2*a.*	Mir Mahamud Muzaffer Hosen *alias* Milan Meah and others.	274 14 ½	.....	103 9 6
115	Pergunnah Pathpasar, Ramaneh Mohadev Mukhapadhya.	10,768 0 1½	.....	Residue share	Hara Sundari Chandhurani and others.	8,973 5 4½	.....	836 13 8½
				Hisya 2*a.* 13*gds.* 1*kr.* 1*kt.*	Monindra Nath Mukhapadhya and others.	1,794 10 9	.....	561 9 6
193	Pergunnah Rajnagar, tuppeh Hosenabad, Jowar Hyderabad, hisya Raj Krishna Sen, Khajat Pitrash market.	688 5 4½	Entire estate.	.....	Sukhmay Chandra Das and others.	.....	9 4 8½	.....
194	Pergunnah ditto, hisya Raj Krishna Sen, Chakla Nurpur Hurannessa.	708 9 11½	.....	Residue share ...	Husni Khanain and others.	261 13 6½	.....	73 0 11
197	Pergunnah Rajnagar, Chakla Nurpur Debi Pirsad Sen.	632 10 5½	.....	Ditto	Chandrabali Bosu and others.	337 10 7½	.....	47 6 5½
				Hisya 2*gds.* 3*kr.* 8*dt.*	Durga Sunker Sen ...	5 7 9	.....	2 8 1
392	Taluk Brindaban Chandra Radha Kisore Sen, hisya 8*a.*	1,452 9 1	.....	Residue share ...	Nanda Kumar Guha ..	425 6 1½	.....	60 12 8½
				Specific land in Patanidhi and char Patanidhi.	Jogot Chandra Das ...	2 5 7	.....	0 14 0
				Hisya 1*a.* of mouzah Shirkhara.	Kailash Chandra Biswas.	9 8 9	.....	2 6 3½
393	Pergunnah Bikrampur, taluk Brindaban Chandra Radha Kishore Sen, hisya 8*a.*	1,452 9 1	.....	Residue share ...	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	147 10 1½
496	Tuppeh Mobeswardi, taluk Ram Krishna Sen.	853 5 4	... .	Hisya 3*gds.* 12½*til* ...	Wahed Bux and others	5 1 8	.....	0 3 2
				8*a.* 8*gds.* 10*kag* ...	Naba Durga and others.	114 6 0	.....	77 12 1½
				2*a.* 3*gds.* 3*kr.* 1*kt.* 13½*til.*	Podma Lochan Saha and others.	71 7 7½	.....	27 6 6½
				2*gds.* 2*kr*, 2*kag* ...	Kali Kumar Rai ...	4 6 0	.....	3 11 5½
				3½*gds.*	Jana Khan and others.	5 13 4	.....	0 11 1½
				5½*gds.*	Nitai Saha and others	6 11 10½	.....	0 15 7½
				1½*gds.*	Nara Narain Rai ...	2 1 4	.....	1 6 7½
				2*gds.* 2*kr.* 1½*kt.* ...	Krisna Chandra Das and others.	4 6 0	.....	2 2 1½
				1*gd.* 3*kr.* 3*kag* 7½*til* ...	Kali Charan Das and others.	3 4 3	.....	0 1 0½
				3½ *gds.*	Naba Kisore Kur and others.	5 13 4	.....	2 8 0
				3*gds.* 1*kr.* 2*kag.* ...	Girish Chandra Chakraverty.	5 6 0	.....	2 10 5½
569	Pergunnah Bikrampur, taluk Ram Gunga Bosu.	684 3 0	.....	Residue share ...	Sitamani and others ...	256 9 0	.....	60 8 0
4349	Pergunnah Pathpasar, taluk Golam Hosen Chaudhuri.	930 3 11½	.....	Ditto	Amirannessa Khatun, manager for Maulvi Abdul Hye and others.	359 1 9	.....	16 3 9
6551	Pergunnah Rajnagar, taluk Ram Dev Ghosh.	642 2 10	....	Ditto	Kala Chand Saha and others.	535 1 8½	.....	10 1 16
8876	Kismut Turkee, within char Khodadadpur.	4,275 6 0	.....	Ditto	Raja Surjya Kanta Acharjya Chaudhuri.	3,210 14 9½	.....	10 2 10½
8434	Char Buktabali ...	584 0 0	Entire estate.	....	Pran Nath Pare and others.	. .	154 0 0	.....
9069	Char Fukurhati, within char Krishnapura.	519 0 0	Ditto ...	.....	Raja Rajendra Naran Rai Chaudhuri.	.....	6 14 0	.....
9084	Char Harkaz, within char Jalna Kamta.	2,023 0 0	Ditto ...	.....	Ram Chandra Sirkar...	... ..	656 0 0	.....
9101	Char Tilli, within char Mirzapur.	1,187 0 0	Ditto ...	.....	Ramoni Mohun Rai and others.	.....	290 0 0	.....
9178	Pergunnah Kashimnagar, hisya 9*a.* 8*gds.* 2*kt.*, zemindari Banameh Munshi Mahamed Hafes.	2,160 0 0	.....	Residue share ...	Obhoya Charan Chaudhuri, manager for Prossonno Kumar Rai and others.	1,060 7 10½	.....	345 14 3½
9762	Pergunnah Bardakhat, Char Delwarpur.	4,196 0 0	Entire estate.	.....	Joharuddin Hyder and others.	.....	1,051 0 0	.....

L. HARE, Collector.

NOTICE is hereby given under section 6 of Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of the 24-Pergunnahs will be put up for sale at the Collector's Office of that district on the 8th January 1890 for arrears of revenue which fell due on the 28th September 1889.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
9	Pergunnah Magura kismut Chitta and others	Rs. A. P. 818 1 7½	The whole	...	Harish Chandra Roy Chowdhury and others	Rs. A. P.	Rs. A. P. 72 4 4	Rs. A. P. . ..
15	Pergunnah Magura, mouzah Khariberia and others.	4,091 4 2½	Ditto .	. ....	Hem Chundra Roy Chowdhury and others	. .	230 4 6½	
53	Pergunnah Magura kismut Rameshur pur and others	3,287 3 0	.....	12*a.* 10*g.* 5*kag* 18½ residuary share.	Radha Mohan Mundal and others.	2,571 11 8	... .	23 3 5
64	Pergunnah Magura kismut Banadroni and others.	6,342 4 9	. . .	10*a* 8*g.* 6*kora* 8 residuary share.	Prosunna Coomar Banerjee and others	4,455 12 9	... .	128 1 2
67	Pergunnah Magura, kismut Futtepore and others.	1,383 1 9	.. ..	11*a* 5½*g* residuary share	Kalli Kristo Mundal and others.	974 10 5	. ...	72 12 9
97	Pergunnah Magura, kismut Bagi and others	900 10 4	.....	9*a.* 11½*g.* residuary share	Ditto ..	618 2 0½	... .	52 10 7
98	Pergunnah Magura, mouzah Moheshurpur and others.	553 3 11	The whole	....	Ditto ...	.....	28 11 3	.....
99	Pergunnah Magura, kismut Mokundpur and others.	1,065 7 11	.....	13*a.* 18*g* residuary share .	Ditto ...	924 10 10	.....	20 4 8
151	Pergunnah Baridbati, kismut Chak Hotooria and others.	39,930 11 11½	... .	15*a* 15½*g* 12½ residuary share.	Trailakha Nath Biswas and others.	39,374 1 0½	.....	336 3 1
267	Pergunnah Medon Molla, mouzah Soobodhepur and others	633 2 9	The whole	.....	Woomesh Chunder Ray Chowdhury and others.	... ..	28 1 9	... .
313	Pergunnah Mooragacha, kismut Sakooya and others	1,383 9 2	"	8*a.* 17*g.* 2*krants* residuary share.	Kalli Kristo Mundal and others.	767 1 10½	..	62 14 4
314	Pergunnah Mooragacha, kismut Harinarayanpur and others.	12,248 10 1½	.. ..	9*a.* 10*g.* 4 residuary share	Radha Mohan Mundal and others.	7,246 13 9½	..	180 0 6
315	Pergunnah Mooragacha, kismut Raghunathpur and others	10,256 13 10½	.....	10*a.* 18½*g* residuary share	Kalli Kristo Mundal and others.	7,003 8 9½	.. ..	450 3 2½
322	Pergunnah Mooragacha, mouzah Autumpur and others.	10,565 0 2	.....	8*a.* 16*g* 11*kag* 9-6 residuary share.	Harry Mohan Banerjee and others	5,814 7 5½	..	86 7 9
343	Pergunnah Ghur and others, mouzah Raipur and others.	7,847 8 4½	The whole	.....	Kalli Kristo Mundal and others.	.....	202 10 6½	.. ..
346	Pergunnah Balia, mouzah Shantoshbati and others.	5,543 2 9	.....	15*a.* 14*g* 2*kranti* residuary share.	Radha Mohan Mundal and others	5,447 0 9	..	189 7 2
348	Pergunnah Balia, kismut Panchaor and others	2,136 15 4	.....	10*a.* 13*g* 1*kori* 1*krants* residuary share.	Manindra Mohun Mukerjee and others	1,424 10 2½	.. ..	49 7 8
358	Pergunnah Balia, kismut Raipur and others.	2,763 0 7	.....	10*a.* 10*g.* 1*kora* 1*krants* residuary share.	Kalli Kristo Mundal and others.	1,815 7 4½	..	181 3 7½
385	Pergunnah Auseemabad, hooda Rash Khalli and others.	19,424 8 1½	... .	Excluding shares separated under section 10 of Act XI of 1859, and under section 70 of Act VII (B. C.) of 1876, the residuary share paying a revenue of Rs 10,055-1-6	Apoorba Kumari Dasi and others.	10,055 1 6		535 9 2½
385-3	Ditto ditto ...	19,424 8 1½	.....	Share separated under section 70 of Act VII (B. C.) of 1876, paying a revenue of Rs. 1,362-8-7½.	Upendra Kristo Mundal.	1,362 8 7½	.....	151 4 8
385-7	Ditto ditto ...	19,424 8 1½	... .	Share separated under section 70 of Act VII (B C) of 1876, paying a revenue of Rs 1,362-8-7½	Kalli Kristo Mundal	1,362 8 7½	.. ..	151 4 8
386	Pergunnah Auseemabad, mouzah Udayarampur and others.	1,724 9 8	.....	8*a* 17*g.* 2*kranti* residuary share.	Kalli Kristo Mundal and others.	954 12 11½	.....	66 15 6
388	Pergunnah Balia, mouzah Molowyapur and others.	8,327 4 6	.....	Excluding share separated under section 10 of Act XI of 1859, the residuary joint shares 12*a.* 6*kora*	Ditto ...	6,271 7 8½	.....	364 4 8½
389	Pergunnah Balia mouzah Santoshpur and others.	9,434 9 7		13*a* 6*g.* 3*kora* 1*krants* residuary share.	Ditto ...	7,867 1 3½	..	477 15 1
390	Pergunnah Balia, mouzah Gondho Baduli and others.	1,381 9 7		11*a.* 5½*g.* residuary share	Ditto ...	973 9 3	.....	72 13 11
391	Pergunnah Mooragacha, mouzah Gomokhi and others.	5,538 8 6	.....	11*a.* 6*g* 2*krants* residuary share	Ditto ...	4,087 8 7		210 8 6
392	Pergunnah Auseemabad, hooda Joychandipur and others	8,313 7 8		12*a.* residuary share ..	Saroda Dasi and others.	6 235 1 9	.....	345 0 10½
394	Pergunnah Auseemabad, mouzah Kissorilpur and others	7,018 12 11	.... .	10*a.* 10*g* 1*kora* 1*kranti* residuary share.	Kalli Kristo Mundal and others.	4,672 8 11½	.....	428 14 8
395	Pergunnah Auseemabad, taraf Madhubpur and others	14,657 13 11	The whole.	.. .	Kailash Chunder Mundal and others.	.....	1,239 0 9	.....
401	Pergunnah Auseemabad, hooda Ramkristopur and others	8,941 9 7	...	10*a* 10*g* 1*kora* 1*krants* residuary share.	Kalli Kristo Mundal and others.	5,877 3 10	. ....	699 6 3½
403	Pergunnah Auseemabad, taraf Pathorberia and others	5,143 3 3	... ..	15*a.* 10*g* residuary share	Radha Mohan Mundal and others.	4,982 7 8	.....	150 12 8½
411	Pergunnah Magura, kismut Dhannya Khola and others	2,510 11 10	The whole.	....	Harish Chandra Roy Chowdhury.	.....	309 7 1	.....
1834	Pergunnah Magura, taraf Bantra and others	14,681 6 4	...	4*a.* 2*kora* 2*krants* residuary share.	Soorat Mohini Dasi and others	3,700 14 9	.....	293 14 6
1834-2	Pergunnah Moydu, taraf Bantra and others.	14,681 6 4	. ..	1*a.* 3*g* 3*kora* share ...	Sookhomoyi Dasi ...	1,089 10 2	.....	98 15 8

RAM CHURN BOSE, Deputy Collector, for Collector.

24-Pergunnahs Collectorate, Alipur, dated the 25th November 1889.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the under mentioned mehals and tenures borne in the towji of the district of Noakhally will be put up to public and unreserved sale at the Collector's Office of that district on Saturday, the 11th January 1890, corresponding with 28th Pous 1296 B S, for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 28th September 1889

Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1	2	3	4	5	6	7	8	9
45	Kismat Mohindra Narayan, pergunnah Sundeep, station Sundeep.	Rs. A. P. 6.7 1 11	Whole .	... .	Chundra Mohon Nandi	Rs A. P. .	Rs. A. P. 109 7 3	Rs A. P. . ...
194	Chur Hudrakhali, zemindari Moodafat Hossen, ghat Maghi, pergunnah Sundeep.	1,994 0 0	Do.	. .	Asanullah Choudhuri and Rahimullah Choudhuri Mataalli.	.. ...	316 0 0	
1551	No 14, Gayer Makarari Howla Abdul Ranaman in chur Shulukya *alias* Sunya chur, pergunnah Bhoolooah.	595 6 11	Do. ...	.....	Wazuddin Maghi, son of Tomiuddin Bhuya of chur Shulukya, station Shudharam.	. ....	130 2 6	... .
1671	No. 1, Gayer Makarari Meadi (temporary) Howla Anwaruddin, Kali Das, Madan Nath Moodafat, Mahammed Manwar, Mhammed Kalim, Akramuddin in chur Gazi, pergunnah Jagira.	1,667 4 6	Do. ...	.....	Isaf Maghi, son of Amiruddin, Hawladar of Chiladi, station Lukhipura.	.....	364 10 0	.....
1671	No 3, Gayer Makarari Meadi (temporary) Howla Mahammed Manwar, Mahammed Kalim, Akramuddin in chur Gazi, pergunnah Jagira.	1,318 9 0	Do. ...	. ..	Srimati Halimennessa Choudhurani, wife of Baksha Ali Choudhuri of Shahar Kashba, station Lukhipura.	...	291 13 0	.....
1671	No. 45, Gayer Makarari Meadi Howla Sarforuddin, Kalimuddin, No. 279, Dakhal in chur Gazi, pergunnah Jagira	555 9 7	Do. ...	.....	Ajamuddin Patwari, son of Shorafuddin Bhuya; Amirjan, wife of Kalimuddin, mother and guardian of Ameenullah, Fazil, minors of chur Lukhi Chuni, son of Panaullah; Matimesh, son of Ajamuddin; Kasim, son of Munshi; Ka imennessa, wife of Hasim; Moonsar Ali, son of Samsher Ali; Samadali, son of Khan Mahamed; Tazumaddin, son of Kagamuddin; Umed Ali, son of Ajamuddin; Manmesh, son of Mahamed Hanip; Abdul Meah, son of Amud Ali; Fazar Ali, son of Hasim; Srimati Halubernessa, wife of Himat Ali; Kadir Baksha, son of Kasim Sarkar; Janbaksha, son of Juman Ali; Amjad, Asabuddin, Munswar Ali, sons of Ajamuddin of chur Gazi, station Hatia.	.....	121 7 0	. ..
1686	No 1, Gayer Makarari Meadi Howla Polan Meah and others in chur Alexander, pergunnah Jagira	540 13 7	Do. .	.....	Polan Meah, son of Golam Ali Bhuya; Amiruddin, son of Ashak Maghi; Abdul Kareem Meah, son of Umed Ali of chur Gazi, Abdul Meah, son of Alabudd.n; Aptar Ali, son of Tomu of chur Algi; Umed Ali Serang, son of Rezuddin Mullah of chur Gassani, station Hatia.	.....	118 2 0	..
1686	No. 2, Gayer Makarari Meadi Howla Polan Meah and others in the said chur, pergunnah Jagira.	649 13 9	Do. ...	... .	Polan Meah, son of Golam Ali Bhuya; Amiruddin, son of Ashak Maghi; Abdul Kareem Meah, son of Ama Mazoomdar and Manoo Meah, son of Umed Ali of chur Gazi; Abdul Meah, son of Alabuddin; Aptar Ali, son of Tomu of chur Algi, station Hatia; Umed Ali Serang, son of Rezuddin Mullah of chur Gassain, station Hatia.	.....	142 3 0	.....
1662	No 80, Gayer Makarari Meadi Howla Ajmatullah, Shubal Chandra Guho in chur Maghdhora, pergunnah Sundeep.	708 14 7	Do.	.....	Uma Charan Guho, son of Rajkishore Guho of Mirjapur station, Bat Havari, zillah Chittagong, at present of chur Maghdhora, station Sundeep.	...	185 0 0	....

Noakhally Collectorate, the 26th November 1889. MOHINI MOHUN CHAKRAVARTY, Dy. Collr for Offg. Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Maldah will be put up for sale at the Collector's Office of that district on 11th January 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
owji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
233	Tikoil, pergunnah Chandlai	Rs A P. 1,841 13 0	Whole estate.	...	Madhu Sudan Sanyal, Pran Nath Sanyal, Jadumoni Debi Hari Nath Sanyal, Saroda Sundari Debi, Radha Madhab Choudhuri, Ram Narain Sircar and Radha Raman Dey, executors on behalf of Bata Kristo and Radha Kristo Choudhuri, minors, Guru Prasad Sanyal, guardian on behalf of Gobinda Bandhu Sanyal, Bhagabati Debya, Promoth Nath Choudhuri, and Radha Madhab Choudhuri.	Rs A. P. ...	Rs. A P. 80 3 0 Arrears of land revenue.	Rs. A P.

Collector's Office, Maldah, the 30th November 1889. C. A. SAMUELLS, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 31st January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Town No.	Name of mahal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
	Thanas Town and Ranzan—	Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2 / 2	Taruf Ajoidha Ram, Fattiabad.	723 13 0	Yes: the whole estate is to be sold.	..	Pran Kristo Das, Ram Shabak Das and others.	..	49 8 8	... .
	Thanas Patya, Futtickcherry, Hathazari, and Satkania—							
26 / 51	Taruf Alcarkhan ..	1,606 0 9	No: only shares are to be sold.	Separate accounts having been opened under Act XI of 1859, share No. I, Asad Ali Khan; share No. II, Akber Ali Khan; share No. III of the remaining proprietors.	Share No. 1, proprietor Anwar Ali Khan.	468 7 5	....	139 1 6
					Share No. 2, Asharaf Ali Khan and Jandah Bibi and others.	811 6 3	.....	240 14 2
					Share No. 3, Usir Ali and Anwar Ali Khan.	326 3 1	.....	96 13 6
								476 12 8
28 / 54	Taruf Anandi Ram, Kanongoe.	849 6 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 10, Ram Joy Mohazan; share No 11, Ram Joy Mohazan; share No. 13, Sudder Ali, and share No. 24, Bishambur.	Share No. 10, Kali Kumar, Durgakripa De.	12 11 0	.	3 13 3
					Share No. 11, Kali Kumar, Durgakripa De.	14 14 0	.....	4 6 6
					Share No. 13, Asharaf Ali Amiolla, *alias* Gurun Meah	11 0 0	.....	3 4 3
					Share No. 24, Kali Kumar and Durgakripa De.	53 15 5	....	16 0 6
								27 7 6
	Thanas Hathazari, Ranzan, and Town—							
29 / 55	Taruf Aziz Nasarat ...	791 12 0	Yes: the whole estate is to be sold.	..	Sheik Karam Ali Meah.	.....	235 0 1	.....
	Thana Futtickcherry—							
37 / 64	Taruf Annundy Manollah	1,160 0 3	Ditto	...	Nemai Charan Nandi, Gunashila.	... .	59 1 6	.....
	Thana Ramzan—							
83 / 391	Taruf Basanta Ram, Fatehbad	557 14 3	Ditto ...	.....	Anunda Mohon, Sumad Ali and Sreemati Meherjan Bibi and others.	..	31 1 0	..
	Thanas Hathazari, Futtickcherry, Patya, Town, and Satkania—							
93 / 401	Kismut Balaram Sircar Baboit, taruf Sonoullah Khan.	1,003 11 3	Ditto ..	.....	Gris Chandra Rakhit and Guru Das Rakhi	.....	315 12 6	.....
	Thanas Bhatiari, Hathazari, Ramoo, Zorwargunge, Patya, and Satkania—							
116 / 522	Kismut Bissessari Baboit, taruf Gouri Sankur.	1,228 12 9	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 13 of the remaining proprietors.	Share No. 13, Mohabat Ali, Mahamed Hossen, Kali Charan and others.	404 13 11	.....	3 13 6
	Thanas Futtickcherry, Hathazari, Patya, Town, Satkania, and Ramoo—							
267 / 1283	Taruf Jubber Dust Khan .	6,538 11 9	Ditto .	Separate accounts having been opened under Act XI of 1859, share No. 1, Fazal Ahamud.	Share No. 1, Fazal Ahamud and Basal Samad.	2,043 14 5		299 13 5
	Thanas Futtickcherry, Hathazari, Patya, and Satkania—							
284 / 1467	Taruf Karim Khan ..	715 12 0	Yes: the whole estate will be sold.	.....	Anwar Ali Khan ...	.....	210 0 0	
	Thanas Patya and Satkania—							
286 / 1469	Taruf Komur Kulli	1,015 13 0	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 10, Dwarka Nath Kundo.	Dwarka Nath Kundo	68 10 5	...	20 5 11
	Thana Ranzan—							
305 / 1552	Taruf Kanuz Fernandez	1,640 5 3	Yes: the whole estate will be sold	..	Gris Chandra Roy Rakhit, Guru Das Roy Rakhit, and others.		486 15 9	..
	Thana Bhatiari—							
350 / 1781	Taruf Modun Chowdhury	688 6 5	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 4, Koshalya	Shib Prosad Shukul	141 10 0	...	42 0 9
	Thanas Hathazari and Ranzan—							
372 / 1889	Taruf Mohomad Shafi Nazir.	558 7 3	Yes: the whole estate will be sold.	..	Susty Charan Sen, Bhairab Chandra Chowdhury and others.	.....	155 12 8	..

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
381 / 1900	Thana Zorwargunza— Taruf Mohomed Monohur	666 15 6	Yes; the whole estate will be sold.	... ..	Sreemati Raiso Nissa Chowdhurin.	.	198 0 0	..
480 / 2438	Thanas Hathazari, Patya, Ranzan and Town— Kismut Pran Kristo, Gopi Mohun, Guru Das and Haridas Roy Baboti, taruf Jugul Kissor Chowdhury.	3,353 14 0	No; only shares will be sold.	Separate accounts having been opened under Act XI of 1859, share No 2, Akhil Chandra Roy, share No. 6 of the remaining proprietors.	Share No. 2, Akhil Chandra Roy.	381 8 9	... ..	113 4 4
					Share No. 6, Gris Chandra Roy, on behalf of minor Bhikon Chandra and Esof Ali and others.	1,329 2 5	.....	365 4 7
								478 8 11
481 / 2483	Thanas Futtickchorry, Patya, Hathazari, Ranjan and Town— Taruf Pran Ballab ..	944 5 5	No: only a share will be sold.	Ditto, share No. 2, Mohesh Chandra Chowdhury.	Mohesh Chandra Chowdhury and Obhoy Charan Chowdhury and others.	118 0 8	...	33 0 9
511 / 2538	Thana Ranzan— Taruf Raghob Juggodish	515 0 3	Ditto ...	Ditto, share No. 12 of the remaining proprietors.	Gunga Das, Brejo Mohon and others.	132 2 1	.....	24 3 7
517 / 2544	Thanas Patya, Ranzan, Town, and Hathazari— Taruf Ram Mohon Sen ...	884 11 3	Yes: the whole estate will be sold.		Prasanna Kumar and Ali Meah.	.....	129 13 6	.....
527 / 2554	Thanas Chakaria, Patya, Ranzan, and Town— Taruf Ram Sondur Kanongoe.	849 6 6	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2 of the remaining proprietors.	Srimoti Latifa Khatun.	681 6 6	.....	202 8 9
515 / 2565	Thanas Zorwargunge, Patya, Ranjan and Satkania— Taruf Ram Kishore Kanongoe.	818 11 10	Ditto .	Ditto, share No. 6, Ram Chandra Biswas and Bangshi Badon Biswas.	Mohesh Chandra Bhuttacharjee.	14 11 0	.....	4 5 9
569 / 2989	Thanas Patya and Town— Taruf Sachi Roshun ...	752 11 0	No; shares will be sold.	Ditto, share No. 1, Sheek Sadak Ali; share No. 2, Keramut Ali.	Share No. 1, Sadut Ali Chowdhury.	82 5 3	.....	24 7 1
					Share No. 3, Anwar Ali Chowdhury.	139 2 9	.. .	17 10 3
								42 1 4
573 / 2993	Thanas Bhatiari, Hathazari, Zowargunge, Patya, Ranzan, Town and Satkania— Taruf Sachi Ram Kanongoe.	26 12 9	No; shares will be sold.	Separate account having been opened under Act XI of 1859, share No. 1, Lal Mohamed; share No. 16, Dwarka Nath Kanongoe share No. 52, Ram Kumar Dey and others; share No. 63 of the remaining proprietors.	Share No. 1, Lal Mohamed.	4 14 3	.....	1 7 3
					Share No. 16, Dwarka Nath Kanongoe on behalf of Lakhi Narain Chackro.	4 4 6	... ..	1 4 3
					Share No. 52, Ram Kumar Brego Sashi	0 10 6	.....	0 2 11
					Share No. 63 of the remaining proprietors Asanullah Chowdhury and others.	293 0 3	.....	83 3 9
								86 7 2
590 / 3054	Thanas Hathazari, Patya, Ranzan and Town— Taruf Shib Durga Sharan...	2,042 3 9	No; only a share will be sold.	Ditto, share No. 6, Shoobal Chandra Das.	Shoobal Chandra Das.	25 14 5	.....	7 9 5
606 / 3113	Thana Chakaria— Taruf Sheremast Khan Chowdhuri.	527 6 6	Ditto ..	Ditto, share No 1, Fazal-ahamed.	Share No. 1, Fazal-ahamed, Bazal Samad and others.	165 10 0	49 2 8	. ...

N. B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 25th September 1889.

Chittagong Collectorate, the 14th December 1889.

C. G. H. ALLEN, for Offg. Collector

NOTICE is hereby given, under sections 6 and 18, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Balasore, will be put up for sale at the Collector's office of that district on 3rd January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs A. P.				Rs. A P. KR B. G B.	Rs A. P	Rs. A. P.
124	Araji Dograi, mouzah Dolesahi, pergunnah Senapot.	6,041 6 6½	Share ...	8kr. 14b. 6g. 2k. 1kr. 8b.	Jagannath Boiriganjan, Radhakrushna Jena, Kapil Sahu and Maguni Sahu.	16 1 3 15 0 0 0	.....	8 1 3½
				1p 2kr. 10b. 4g. 3k.	Ramchandra Neka ...	84 9 1 0 0 0 0	...	84 9 1
238	Thana Jahangir, pergunnah Dhamnaggar	2,257 15 2	Do. ...	3a. 4p. 13kr. ...	Atal Behari De and Godabari Dei.	478 0 1 2 8 0 0	.....	215 8 1½
239	Ditto	2,257 15 2	Do. ...	2p. 2kr. 1b 8g. 2k.	Sidhyanath Pati	34 12 7 0 0 0 0	.....	12 6 8
661	Thana Gobindpur, pergunnah Koondi.	761 15 11½	Do. ...	2a.	Choudhuri Raghunath Prosad Das.	95 3 11 0 15 0 0	.....	13 12 0
661	Ditto	761 15 11½	Do ...	2a. 11p. 8b. ...	Bidyadhar Sahu	140 14 2 0 14 15 6	.....	20 14 8
661	Ditto	761 15 11½	Do. ...	6p.	Badyanath Nayak and Somnath Nayak.	23 12 11 0 15 15 0	.....	3 13 0
661	Ditto	761 15 11½	Do. ...	8a. 8b.	Sadasib Das Brajamohan Das, Mohanprosad Das, &c	283 15 8 0 12 1 10	.....	30 4 9
734	Thana Barunsingh, pergunnah Khejuri.	1,678 0 6	Whole ...	.....	Canunco Jaggar Nath Das Patnayak, himself and on behalf of Gopinath Das Patnayak, Radha Madhab Kar, &c.	.....	423 5 9	...
823	Araji Payakali, mouzah Brahmapur, pergunnah Talsabang, &c.	1,060 8 0½	Do. ...	.....	Tara Dei *alias* Tara Bai, Madan Mohan Das, Janardan Singh, &c.	.....	58 0 4½	...
1135	Thana Gokulanandpur, pergunnah Katsahi.	2,370 10 11½	Do. ...	.....	Parbati Dasi, Bhagurathi Dasi, Jageswari Dasi and Choudhuri Dwarikanath Das Mahapater, &c.	.....	394 2 2½	... .
1164	Mehal Bedapal, pergunnah Shahabandar.	734 7 9	Share	11a. 3p.	Choudhuri Akhoy Narayan Ghose, Choudhuri Mohendra Narayan Ghose, &c	515 12 9 0 0 0 0	.....	0 5 9
1531	Thana Darba, pergunnah Kaima.	559 3 8	Whole ...	.....	Choudhuri Trilochan Narendra Mahapater, Chintamoni Nayak and Bijaram Nayak, &c.	.....	9 14 0	....
1031	Thana Madhabnagar, pergunnah Randaorgara.	1,067 4 9	Share ...	1a 3p. 2kr. 14b. 8g. 2k. 15b. 2g. 3k. 2kr.	Shamsunder Patnayak, Damoder Patnayak, himself and uncle and guardian of Krushna Chandra Patnayak, minor, &c.	84 7 6 0 0 0 0	.....	42 3 3
229	Thana Malda, pergunnah Dhamnaggar.	1,710 4 0	Do. ...	6g. 3k. 8b. 5g. ...	Badyanath Prosad Dutt and Sudam Charan Dutt, &c.	36 5 0 0 0 0 0	.....	18 2 6

Balasore Collectorate, the 2nd December 1889. R. CORNISH, Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bankoora, will be put up to sale at the Bankoora Collectorate on 13th January 1890, corresponding 1st Magh 1296 B S.

The purchasers will be subject to the following conditions of sale:—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*.—If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale:—

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	REMARKS.
		A. R. P. S.YD. S.FT. S.IN.	Rs A. P.	
1022	Sadistar Puraton Rastab, pergunnah Bishenpore.	1 2 14 11 4 72	4 13 0	

Bankoora Collectorate, the 7th December 1889. W. V. G. TAYLER, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Monghyr will be put up for sale at the Collector's Office of that district on 28th January 1889, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.		*I.—Permanently-settled estates.*		Rs. A. P.	Rs. A. P.	Rs. A. P.
13	Jose, pergunnah Salemabad.	613 14 0	. .	2a. 13g. 6c. 13b. ...	Kuldip Narain Singh and others.	102 5 0	.....	104 6 0
13	Ditto .	613 14 0	.....	8a. 3d. 18c. 6f. 14r. ...	Ramman Singh and others.	122 10 0	.....	74 10 6
283	Belchhi, pergunnah Amerthu	641 1 0		2a. 8d.	Gopal Singh and others ..	96 3 0	.....	10 1 0
283	Ditto	641 1 0		3a.	Ramadheen Rai and others.	120 1 0	.....	29 1 0
602	Parora, pergunnah Ballia.	830 15 0	..	1 dam	Lachmi Kumri	2 10 0	.....	0 2 0
602	Ditto ..	830 15 0	.....	1a. 11d. 1c. 1d. 4r. 2p.	Lal Mohun Mullik and others.	132 2 0	.....	1 5 6
629	Sultanpur Tetri, pergunnah Ballia.	893 0 0	.. ...	11a. 9d 1k.	Sheik Tohower Hossain and others.	639 5 0	.....	131 15 0
804	Taluqa Tulsipur and others, pergunnah Malki	932 10 0	.....	1a. 18d. 2d.	Manohar Lal and others	110 15 3	.....	52 12 9
830	Ganga Persad, pergunnah Malki	588 3 0	.....	2a. 1c. 1k. 9r.	Reet Lal Singh and others	121 2 0	.....	61 5 3
1451	Bhowanandpur *alias* Raudeari, pergunnah Malki	1,166 13 0	.....	1a. 5g. 1c. 3d.	Shew Dyal Singh and others.	91 9 0	.....	21 14 0
1451	Ditto	1,166 13 0	.....	5g. 2c. 8d. 2k. 5f. .	Mussamut Amrito Kumri and others.	20 15 0	... .	3 15 0
1451	Ditto ..	1,166 13 0	.....	16g 2c. 6d.	Bhojraj Singh and others	60 12 0	.....	14 11 0
2305	Chuckangra, pergunnah Amerthu.	1,083 14 0	.. ...	1a. 15d. 11c. 2b 4f. 8b.	Shah Mohamad Hossain and others.	120 7 0	... ..	29 14 0
2317	Imamnagar, pergunnah Amerthu.	513 14 0	Whole ...	.....	Syed Tasaduk Hossain and others.	.....	0 13 6	.....
2746	Halsi, pergunnah Amerthu.	1,504 1 0	.....	13a. 10d. 5c. 2b. ...	Beni Singh and others ...	1,282 0 0	.....	220 14 0
2779	Mahiuddinagar Kanik, pergunnah Amerthu.	564 11 0	.....	3a.	Kokil Singh and others ...	95 3 0	.....	11 14 0
2779	Ditto ..	564 11 0	.....	2a.	Rohim Singh and others	120 9 0	.....	0 14 0
5259	Mohumedpur Patsha, auli and dakhil, pergunnah Emadpur.	708 0 0	.....	12a.	Moulvi Asrafuddin Ahmad and others.	533 0 0	.....	18 14 9
				II.—Temporarily-settled estates.				
1433	Akberpur Barari, pergunnah Malki.	783 13 0	.....	14a.	Kharag Singh and others	685 14 0	.....	60 8 8

Monghyr Collectorate, the 4th December 1889. T. E. COXHEAD, Officiating Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the Conditions of Sale below, to the undermentioned estate situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 11th January 1890, corresponding with 28th Pous 1296 B.S.

The purchasers will be subject to the following conditions of sale—

Conditions of sale.

1st.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2nd.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3rd. If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid down at once.

4th.— If the amount of purchase money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	REMARKS.
		A. R. P.	Rs. A. P.	
98	Kismut Jot Kasturi, pergunnah Kotuali.	62 0 12	50 0 0	

Collector's office, district Maldah, the 15th November 1889. C. A. SAMUELLS, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 7th of January 1890, corresponding with 1st of Magh 1297 Fasloe, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 28th September 1889.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
16	Deorah Sobjan, pergunnah Akbarpore.	522 15 6	.....	2a. 2g. 3c. 18r.	Bahari Thakur and others	71 6 0	.....	15 15 6
16	Ditto ...	522 15 6	.....	1a. 11g. 1c. ...	Mossamat Chaurasee Kuar	51 0 0	.....	0 15 6
16	Ditto ...	522 15 6	.....	6a. 19r.	Gangaram Thakur, Nand Singh and others.	197 14 0	...	23 3 0
261	Ibraheempore, pergunnah Barail.	535 0 9	...	12a. 5g. 1c. 2k. 5r. ..	Bateakhee Lal ...	410 2 9	.....	128 2 3
261	Ditto	535 0 9	...	3a 14g. 2c. 2k 15r. ...	Chuturbhuj Sahai ..	124 14 0	.....	39 1 0
907	Akhta, pergunnah Babree Chumparun.	1,173 5 9	.. .	3a. 12g 2c. 2k. 12r. ...	Baboo Salookat Deo Narain Singh and others.	266 8 1	.....	74 14 8½
921	Rasidpore Dowlat, pergunnah Babree Chumparun.	4,450 12 3		6g. 2c. 2k. ...	Sheodeep Narain Singh and Laldeep Narain Singh.	92 11 9	.....	2 15 4½
921	Ditto ..	4,450 12 3	.. ...	8a. 1g. 1k. 1d.	Raj Coomar, Baboo Deo Nandan Singh and others.	2,240 13 2	.....	260 15 2
926	Bel, pergunnah Babree Chumparun.	510 6 5	.....	7a.	Baboo Bhagwat Prasad, Baboo Deo Nandan Singh and others.	223 4 3	.....	19 4 9½
995	Jhiktahi Basant Joggeewan, pergunnah Babree Chumparun.	857 9 7	.....	2a. 16g. 1c.	Ashrafful Nisa Begum and others.	150 12 2	.....	32 6 3½
996	Chiknowta, pergunnah Babree Chumparun.	3,311 4 10	.....	6g. 2c 2k.	Sheodeep Narain	69 0 0	.....	2 2 6
996	Ditto ..	3,311 4 10	...	6a. 1k. 1d.	Baboo Simbhoo Prasad, Chandika Prasad and others.	1,042 14 5	.....	332 8 1½
1075	Kuari Madan, pergunnah Barree Chumparun.	645 1 4	... ..	6a. 8g. 1c 1d. 15r. ...	Raje Sheo Raj Nandan Singh Bahadur.	258 11 3	.....	6 6 6
1075	Ditto	645 1 4	.. .	7a. 6g. 2c. 2k.	Mossamat Janki Kuer and others.	295 10 7	.....	4 9 10
1122	Masowdha, pergunnah Babree Chumparun.	6 8 10 8	The whole estate is.	.....	Rai Goodar Sahai	.....	34 13 5	.....
1270	Akhtiarpore Kanti, Top Bhotsala, pergunnah Bisara.	1,625 13 4	.....	6a 15g. 1c. 15r. ...	Hajee Syed Mohammad Taqui Khan and others.	686 2 2	.....	27 13 4
2329	Banthu Harbans Chakla Sarjowl, pergunnah Bisara.	1,912 3 3	..	7g. 1c. 1k. 1d.	Ram Baks Thakur and Jangi Lal.	45 5 6	.....	2 10 0
2329	Ditto ...	1,912 3 3	... ..	4g 3c. 2k 1d. 5r. ...	Harakh Singh Thakur and Dhanukh Dharee Thakur	29 10 11	.....	9 11 11
2329	Ditto ...	1,912 3 3	.. ..	18g 3c. 2k. 1d. 5r.	Lal Bihari Singh and Jangee Lal	82 11 11	.....	49 15 7
2329	Ditto ...	1,912 3 3	.. .	2g. 3c. 2k	Raghu Nandan Singh and Janki Singh	28 14 0	.....	6 5 0
2329	Ditto ...	1,912 3 3	.. ..	1c. 1g. 2c. 1k. 1d. ...	Ajodhia Singh and Prithivi Rai	103 5 6	.....	27 5 9
2329	Ditto ..	1,912 3 3	. ...	5g. 2c. 1d	Ramanugrah Singh	39 2 4	.....	28 14 2
2336	Bariarpore Kandh, pergunnah Bisara	828 10 11	.....	1a. 3g. 3c. 1k. 1d. 10r.	Gajraj Sahai and Mauraj Sahai.	61 13 3	... ..	0 14 6
2336	Ditto ...	828 10 11	..	10g. 2k 1d. ...	Lachhmi Narain	49 11 2	.. ...	13 7 2
2336	Ditto ...	828 10 11	.. ..	11g. 2d. 10r. ...	Harbalabh Sahai, Roodar Singh and others.	33 13 7	.....	2 5 7
2336	Ditto ...	828 10 11	. ..	10g. 1d.	Kulwant Rai	25 13 2	.....	4 5 2
2336	Ditto ..	828 10 11	..	17g. 3c. 1k. 1d. ...	Gobardhan Lal and others	46 0 10	... ..	5 8 10
2336	Ditto ..	828 10 11	, ...	18g. 1c 1k 2d. 10r. ...	Sree Iwaree ...	47 10 0	.....	0 10 0
2336	Ditto ...	828 10 11	.....	1g. 1c. 2k. 5r. ...	Sree Iwaree and Sodagar Tiwaree.	3 10 8	.....	3 10 8
2336	Ditto ...	828 10 11	.....	1g. 2k. 10r.	Debee Prasad	3 2 11	.....	3 2 11
2336	Ditto ...	828 10 11	.. ...	1a 13g. 2k. 2d. 10r. ...	Jadoo Kuer, Sobhan Kuer and others.	88 1 0	.....	29 3 6
2339	Bahbalpore Chhorabee, pergunnah Bisara	1,031 14 9	.....	1a. 11g.	Nag Narain	160 15 6	... ..	44 15 6
2339	Ditto ..	1 031 14 9		4a 1g.	Balgobind Sahai	212 15 0	... .	39 14 0
2339	Ditto .	1,031 14 9	...	7g. 3c 2k.	Jagdeep Sahai	40 4 0	.....	9 15 5
2339	Ditto ...	1,031 14 9	... .	6g 2c 1k	Abdul Karim and Sherifunnissa.	38 10 10	.. ...	1 7 8
2455	Ghataro Protap, pergunnah Bisara.	1,139 11 9	.....	5g. 1c. 2k. 10r.	Sheo Sankar Sahoo and Thakur Prasad.	19 6 0	.....	0 9 6
2455	Ditto ...	1,139 11 9	... ..	7g. 2c.	Khedoo Singh and Ajeet Narain.	26 11 6	.....	26 11 6
2455	Ditto	1,139 11 9	.....	12g. 2c. 2k 1d	Bachoo Lal and others ...	45 7 3	.....	14 9 7
2462	Lodipore, pergunnah Bisara.	763 5 7	... ..	1a. 3g. 1c. 10r.	Sarabjeet Lal	55 7 11	.....	30 6 11
2462	Ditto ..	763 5 7	. ...	1g. 2d. 5r. ..	Kalee Charan ..	6 2 3	.....	3 4 5
2462	Ditto .	763 5 7	.....	2a. 15g. 2c. 1d 4r. ..	Nand Lal and others ..	181 8 2	.....	56 1 9
2463	Niamatpore Sahtna, pergunnah Bisara	664 5 11	..	18g. 2c. 2d.	Dyal Narain Singh, Deo Nandan Singh and others.	52 1 3	.....	24 3 4
2463	Ditto	664 5 11	..	18g. 1c. 1k. 2d.	Nandan Lal and others	51 7 5	.....	11 13 8
2485	Pojhees Basanta, pergunnah Bisara.	1,693 10 7	.. ...	11a. 17g. 2c. 1k. 1d. 10r.	Hira Lal Sahoo, Brij Mohan Lal Sahoo and others.	1,339 7 10	....	27 14 10
2540	Rasulpore Wahid, pergunnah Bisara.	1,500 13 0	... ..	15a. 17g 1c. 2d. ...	Bhanuprasad Umrao Bahadur and others.	1,482 2 9	... ..	67 4 11
2706	Mujhowli, pergunnah Bisara.	3,107 6 9	.....	1a. 1g. 1k. 10r.	Sumran Thakur and others.	204 13 8	.....	28 13 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder Jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs A. P.				Rs. A. P.	Rs. A. P.	Rs A. P
3478	Uphrowl, pergunnah Hajeepore.	1,435 7 9	.....	6a. 1c. 2d. 8r.	Ghansham Singh	519 14 0	.....	162 7 1
3478	Ditto ...	1,435 7 9	.....	2a. 19g. 3c. 1k. 7r. 8p.	Rajkumar Singh and Bibi Najeebun.	269 12 2	.....	65 3 1
3494	Biddupore, pergunnah Hajeepore.	1,707 3 3	The whole estate.	.....	Ram Krishna Panday and others.	.....	320 4 0	.....
3504	Babhangawan, pergunnah Hajeepore.	764 15 9	.....	8a.	Bhagwan Sahai and Jagarnath Sahai.	382 7 10½	... .	41 10 1
3532	Jahanairpore Sham, pergunnah Hajeepore.	365 10 11	.....	4a. 10g. 1c. 1k. 12r. 6p.	Phekoo Lal Chaudhry, Sri Dhar Lal and others.	382 7 10½	.....	41 10 1
3534	Jaurapore Balia, pergunnah Hajeepore.	735 10 11	.....	5g. 1k. 1d. 14p.	Chutursal Singh	11 12 0	.....	2 2 4
3534	Ditto ...	735 10 11	.....	1a. 19g. 3c 2d.	Darsan Rai	91 8 9	.....	35 7 6
3534	Ditto ...	735 10 11	.....	10g. 2c. 8r. 6p.	Naumidh Rai	37 15 4	.. . .	3 7 0
3534	Ditto ...	735 10 11	.....	10g. 2c 1k.	Jai Ram Singh	24 8 0	.....	6 3 0
3534	Ditto ...	735 10 11	.....	2a. 3g. 1k. 8r. 2p. ...	Manorath Singh .. .	99 1 6	.. ...	1 10 0
3534	Ditto ..	735 10 11	.....	6g. 3c. 1k. 2d. 12r. 1p.	Ram Dhian Singh ..	15 5 0	.....	7 11 1
3534	Ditto ...	735 10 11	.....	2a. 8g. 1k. 2d. 8r. 12p.	Ram Saran Singh and Jago Kuer	110 7 0	.....	7 3 2
3534	Ditto ...	735 10 11	.....	4g. 2c. 1k 14r 6p. ..	Ram Saran Singh	10 10 0	.....	2 10 6
3559	Chak Narain, pergunnah Hajeepore.	511 4 7	.....	2a. 11g. 2c. 8r. 8p. ...	Ganga Prasad	95 1 6	.....	28 4 0
3559	Ditto ...	511 4 7	.....	1a. 5g. 8r. 4p.	Mossamat Pana Kuer	39 15 3	.....	12 2 6
3559	Ditto ...	511 4 7	.....	1a. 9g. 1c. 2k. 1d. 7r. 2p.	Hurbux Singh and Girjabux Sing .	47 2 0	.....	15 13 0
3559	Ditto ...	511 4 7	.....	1a. 4g. 3c. 2k. 2d. 8r. 4p.	Ramgopal Singh, the present purchaser Nundun Lall.	39 15 1	. ...	37 6 2
3559	Ditto ...	511 4 7	.....	10g.	Tulsee Singh	15 15 8	.....	3 1 6
3559	Ditto ...	511 4 7	.....	7a. 6g. 1k. 1d. 7r. 6p.	Kirut Singh	233 7 10	.....	35 3 3
3602	Tatehpore, Shehbazpore, pergunnah Hajeepore.	645 10 8	.....	4a.	Mahanth Raghu Nath Dass.	161 6 8	.....	5 15 6
3602	Ditto ...	645 10 8	.....	4a.	Ditto ...	161 6 8	.....	1 3 7
602	Ditto ...	645 10 8	.....	1a. 6g 2c. 2k. 6r. 6p. .	Gopal Lal ...	53 12 11	....	27 14 11
3602	Ditto ...	645 10 8	.....	2a. 13g. 1c. 1k. 3r. 3p.	Maha Deb Lal and Sahgreen Prasad.	107 9 10	.....	17 2 6
3602	Ditto ...	645 10 8	.....	18g. 2c. 1k. 10r. ...	Chuturbhuj Sahai	37 10 9	.....	16 2 9
3605	Kurmopore, pergunnah Hajeepore	836 6 11	.....	11a. 3a....	Gudar Singh	401 7 2	.....	12 2 4
3617	Gobindpore Gokhula, pergunnah Hajeepore.	836 6 11	.....	1a. 3c. 1d. 6r. 9p. ..	Ram Bux Singh	54 6 0	.....	22 13 9
3617	Ditto ...	836 6 11	.....	1a. 4g. 3c. 1k. 1d. 1r. 1p.	Doarka Prasad	65 0 0	.. ...	12 14 6
3617	Ditto ...	836 6 11	.....	3g. 1c. 8r. 12p. ...	Ram Saran Lal	8 0 6	.... .	1 8 0
3617	Ditto ...	836 6 11	.....	11g. 2c. 1k. 3r. 2p. ...	Khobharee Singh	43 6 6	.....	4 0
3617	Ditto ...	836 6 11	.....	8g 1c. 1k 2d. 8r. 14p.	Naunit Lal	25 8 0	.....	7 7 0
3617	Ditto ...	836 6 11	.....	2g. 3c. 1k. 1d. 6r. 4p. ..	Nand Kumar Lal	7 8 0	.....	7 4 6
3617	Ditto ...	836 6 11	.....	14g 1k. 1d 10r. ..	Mossamat Jamuna Kuer	37 10 0	... .	27 10 0
3617	Ditto ...	836 6 11	.....	1a. 13g. 2c. 1k. 1d. 10r.	Sri Dhar Narain .	87 12 2	.....	23 2 11
3619	Govindpore, pergunnah Hajeepore	836 6 11	.....	3a. 12g. 3c. 1k. 17r. ...	Doolhin Gulab Kuer ..	294 7 11	.....	2 3 3
3619	Ditto ..	836 6 11	.. ...	1g. 2c. 2d.	Sarabjeet Lal	6 4 7	.....	9 0 11
3619	Ditto .	836 6 11	.. ...	2g. 3c. 2k. 2d.	Ramnath L	12 0 3	.....	17 4 6
3619	Ditto ...	836 6 11	.....	3a. 16g. 1c. 1k. 1d. 2r.	Gulab Kuer and Muluk Rani Kuer and others.	308 10 8½	.....	51 3 6
3641	Nawanagar, pergunnah Hajeepore.	791 0 0	.. ...	1a. 4g.	Copal Lal	59 5 0	.....	28 5 0
3641	Ditto ...	791 0 0	.....	2a.	Bissur Sahai, Chuturbhuj Sahai and others.	98 14 0	.....	42 13 4
3801	Jagdispore Beli, pergunnah Hajeepore.	837 6 1	The whole estate.	.....	Naunit Lal, Radhe Krishen and others.		123 11 10	.....
4167	Bhikhanpore, pergunnah Morwah Khurd.	897 6 11	Ditto...	.....	Sayed Mohammad Ashraff Husain.	.....	12 3 2	..
4208	Narawan, pergunnah Morwah Khurd.	1,729 9 6	.....	14g. 2c. 10r.	Mossamat Jaimangal Kuer and others.	73 7 6	.....	44 13 2
4569	Meenapore, pergunnah Morwah Kalan.	932 9 8	The whole estate.	.....	Sheo Narain Panday ..	.....	28 9 7	.....
4814	Parri Adhawan, pergunnah Mahis Tirhut.	516 11 9	Ditto .	.....	Rai Durga Sahai, Rai Jang Bahadur and others	.....	30 13 0	.....
5402	Sheriffpore, pergunnah Nanpore.	506 9 1	Ditto...	.....	Sher Bahadur Sahee ...	.. ...	28 1 7	.....
5477	Manikpore, pergunnah Nanpore.	597 13 8	...	9a. 6g. 2c. 2k.	Kunj Behari Thakur ..	348 11 1	.....	29 8 8
5615	Pokhrara Ch. Nai, pergunnah Bisara.	864 14 0	The whole estate.	.....	Bijay Narain Singh ...	.	50 5 9	.....
5626	Paterha Jairam, pergunnah Bissara.	525 8 0	.....	10a. 18g. 2c. 1k. ...	Kali Charan Singh ...	.....	.....	27 13 11
6957	Basarh, pergunnah Ruttee.	956 2 3	The whole estate.	.....	Ambik Singh and others ..	.....	33 6 3	.....
7031	Keshunpur Bahbangawan, pergunnah Ruttee.	938 5 9	.....	6a. 5g. 2c. 1d. 2r. ...	Mohanth Roghu Nath Dass	369 3 9	.....	58 6 10
7070	Mohabatpur, pergunnah Ruttee.	739 6 11	.....	8 a. 2g. 2c.	Hurgobind Saran ...	143 1 5	.....	56 9 7
7079	Murwa Pakar, pergunnah Ruttee.	726 13 0	The whole estate.	.....	Raghubans Sahai and Harihar Prasad.	. .	3 5 10	. . .

1	2	3	4	5	6	7	8	9
Towj No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs A. P.				Rs A. P.	Rs A. P.	Rs A P.
7099	Hussaipore, pergunnah Rutter.	1,089 6 5	.....	3a 6g 2c. 2d. 17r. 10p.	Mussamat Badhraj Kuer	236 4 11	... ..	122 11 11
7391	Hussaipore, pergunnah Saraisa	545 1 1	... ..	5g. 1c. 1k.	Banai Chaudhry ...	9 9 9	... .	24 9 9
7455	Sarmastpore, pergunnah Saraisa	550 11 6	..	4a. ...	Nand Keshore Sahai	187 10 10½	.....	43 0 6
7461	Ditto ..	550 11 6	... .	6g 2c 2k. ..	Mossamat Deepraul Kuer	12 10 11	.... .	3 15 7
7465	Ditto ..	550 11 6	... ..	5a	Mossamat Muga Kuer	168 15 6	... ..	35 15 3
7520	Kurnauti, pergunnah Saraisa.	1,370 1 9	. ..	4a. 3c. 2k. 15r.	Mussamat Lilabatti Kwuer	338 1 11	.....	26 4 5
7530	Ditto	1,370 1 9	. . .	1a. 1g 3c. ..	Hem Singh and others	123 8 0	... ..	6 5 11
7527	Mahisoundh, pergunnah Saraisa	2,804 13 6	. ...	12g. 1c 2k. 1d.	Bhairo Singh ..	112 8 0	.....	29 4 6
7527	Ditto ...	2,804 13 6	.....	4a. 15g 1k. 1d. 18r. 1½p. 4kan.	Hirday Narain Chaudhry, Shankar Prasad Chaudhry and others.	860 8 4	... ..	15 1 2
7815	Furrukhpur, pergunnah Tilak Chaundh	1,117 9 9	... .	12a. 18g. 1k. 3d. .	Brij Keshore Lal Mahtha	902 7 6	...	34 13 8
9219	Peer Hati, pergunnah Burail	509 6 0		1a 17g 2c. . .	Chuturbhuj Sahai	59 10 0	.. ..	36 14 1
9462	Erazi Beshee Nauhrar, pergunnah Gadhesand.	865 5 0	... ..	1a. 6g. 2c. 2k.	Mangal Prasad Singh ..	78 2 2	.....	2 5 6
9462	Ditto .	865 5 0	...	2a 13g 1c 1k 1d.	Debi Dut Singh .	144 5 4	.....	45 2 8
9462	Ditto	865 5 0	.. .	5a. 6g 2c 1k 2d.	Rachhpal Singh ..	248 7 0	. ...	1 14 10
9462	Ditto	865 5 0	..	6a. 13g 1c. 1k. ...	Brahamdeo Narain and others.	360 6 6	..	102 9 3
10031	Gobindpore, pergunnah Hajeepore.	1,063 12 9	. ....	2a. 13g 2c. 1k 7r. 8p.	Kesho Narayan ...	177 4 8	..	12 8 4
10031	Ditto .	1,063 12 9		1a. 15g 2c. 1k 2d. 15r.	Sheo Saran Singh . .	118 8 0		12 9 8
10370	Gopeepore, pergunnah Mahila Tirhut	2,430 6 10	The whole estate.	. ..	Goshaeen Mathura Nath Jee and others.	..	17 14 3	.....
10809	Bhagwanpore, pergunnah Nizamudinpur.	1,814 5 6	Ditto .	... ..	Awadh Kuer and Sant Protap Sinha.	..	223 1 6	... ..
11864	Rampur Karari Barari, pergunnah Hajipore.	856 0 0	.....	2a.	Kuldeep Narain ...	107 0 0	... ..	73 7 0
11920	Sukwarpur, pergunnah Hajipore.	1,478 13 3		1a. 3g. 1k 1d 10r. ...	Debee Prasad ..	105 8 9	.....	5 4 10
11920	Ditto	1,478 13 3	.	13a. 6g 2c. 1k. 1d. ...	Sajeewan Dube .. .	1,232 1 3	.	313 6 1
11917	Bahrampore Diara, pergunnah Azimabad.	1,763 0 0	The whole estate.	...	Jagan Lal Bhagat	.....	278 4 10	...

Mozufferpore Collectorate, the 28th November 1889. E. B. HARRIS, Covtd. Dy. Collr., for Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Burdwan will be put for sale at the Collector's Office of that district on the 3rd January 1890 for arrears of revenue and other demands, due on the 28th September 1889, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share, or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A P.				Rs. A P.	Rs A. P.	Rs. A. P.
101	Chandpur, pergunnah Amerabad.	1,740 8 3	Will be sold	.....	Nistarini Guptu, wife of Brojosunder Mullick, and others	.....	669 4 3	.....
158	Samudra Gari, pergunnah Satsoika	2,710 8 11	Ditto ...		Woomá Churn Nundy	.....	490 13 6	...
5174	Salkuni, pergunnah Burdwan	1,693 8 5	.....	The parent estate, the sudder jumma of which is Rs. 1,256-5-7, will be sold.	Sheik Azeem Ullah and others.	1,256 5 7	.....	139 6 0

The shares of this estate (1) belonging to Issur Chundra Roy and others, the sudder jumma of which is Rs. 309-15-2½, and (II) belonging to Gora Chund Roy and others, the sudder jumma of which is Rs. 133-3-7½, for which separate accounts have been opened, will not be sold.

H. LEE, Offg. Collector.

Burdwan Collectorate, the 28th November 1889.

NOTICE is hereby given that or the undermentioned plots of the Nizamut lakhraj State lands situated in the district of Burdwan, Nos. 72 to 75 will be put up to sale on the spot by the Deputy Collector at the Burdwan Collectorate, and No. 89 by the Sub-divisional Officer of Culna, on Monday, the 27th January 1890, corresponding to 15th Magh 1296 B. S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1. The lands to be sold revenue-free to the highest bidder above the upset price, which will be fixed for each plot at the time of sale.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and the purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3. If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the lands to be again put up to sale at the risk of the defaulting purchasers, after issue of advertisement, as in the case of original sale.

5. The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Boundaries.	Remarks.
				B. K. CH.		
72	Jaigirdagra	Ukhari	Shamurshahi.	7 5 7	East of the Bhagar jote lands of Saroo Patan; south and west of jote lands of Budhu Mirdha; south of jote lands of Rasad Mirdha; east of a public road and of jote lands of Mohur Mirdha and of the Bhagar jote lands of Saroo Patan.	*Plot I.*—Jote of Sakir Mandal and of Nihar Bibi, wife of Adu Mandal of Nariaram.
73	Ditto ..	Ditto ...	Ditto ...	10 9 15	North of jote lands of Pitambar Charal, Kedar Chowdhury, Shek Karoo, and Shek Tooraj; west of jote lands of Hara Mirdha, Dohar Mirdha, Kedar Chowdhury and Manik Mirdha; south of jote lands of Sova Mirdha, Haroo Mirdha, Sakauddin Mirdha, Jamman Mirdha, Tarku Shek; east of jote lands of Ulfoo Mandal, Tarku Shek, Karpo Shek, and of Bhagar jote lands of Saroo Shek; south and east of jote lands of Waz Shek.	*Plot II.*—Do do.
74	Ditto	Ditto ..	Ditto ...	2 13 11	North of jote lands of Manik Mirdha; east of jote lands of Sona Mirdha and Dolai Khan; south of jote lands of Alvaroy Mirdha; west of jote lands of Adu Chowdhury.	*Plot III.*—Jote of Taki Mandal of Nariaram.
75	Ditto .	Ditto ...	Ditto .	4 13 14	North of the chowkidari chakran lands of Jinouri Hari; east of jote lands of Sakauddin Mirdha, Hara Mirdha, Sonaulla Mirdha, and Ronza Lal Charal; south of jote lands of Sonaullah Mirdha, west of the chowkidari chakran lands of Gourab Khan, Patan and Ramdhan Bagdi	*Plot IV.*—Jote of Sakir Mandal of Nariaram.
89	Dakadda	Shyambati	Karajpur	5 15 12	South of the jote lands of Deb Nath Pal and Kunja Mandal; east of the lakhraj jote lands of Deb Nath Pal, north of the lakhraj jote lands and of the barren land of Deb Nath Pal; west of a public road.	Jote of Sita Nath Pal and Deb Nath Pal o Shyambati.

Burdwan Collectorate, the December 1889. KEDAR NATH DUTT, for Officiating Collector.

NOTICE is hereby given, under sections 6, 7, and 13 of Act XI of 1859, that the undermentioned estates or shares of estate in the district of Pubna will be put up for sale at the Collector's Office of that district on the 10th January 1890 corresponding with 27th Poos 1296 B. E, for arrears of revenue and other demands for the kist of September 1889 which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	Remarks.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.	
175	Taraf Shampur, pergunnah Asura-bad.	3,168 9 0 Police— 3 1 0	.....	Ijmali share.	Kashi Nath Das, Kailash Chandra Ghosh and others.	1,935 5 0 Police— 3 1 0	... ...	6 7 0	The following shares which are not in arrears are exempted from sale— Revenue. Police Rs. A. P. Rs. A. P. Ataronessa, wife of Moulvi Sayiduddin Ahmed 450 15 0 0 12 0 Guruchoran Dutta and others ... 770 5 0 1 4 0
227	Alharpur, pergunnah Katar Mohalla.	2,129 0 0 Police— 14 1 0	The entire mehal is to be sold.	.....	Jagat Chandra Bhadari and others.	... ...	2 5 0	... ...	
330	Erandeho Bohoti, pergunnah Boto-bazar.	854 6 0	....	Ijmali share.	Awi Fannessa Khatun, mother and guardian of Moulvi Abdul Hai and others.	701 3 0	... ...	43 6 6	The following shares which are not in arrears are exempted from sale— Rs. A. P. Jauhobi Chowdhurani 42 7 0 Mohima Chandra Joardar 27 11 0 Shares in arrears for which separate notices have been issued in consequence of their sudder juma being less than Rs. 500. Revenue. Rs. A. P. Ekabbar Fakir .. 27 11 0 Rahimuddin Munshi and others 55 6 0

Pubna Collectorate, the 18th December 1889. W. FIDDIAN, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859 and Act VII (B C) of 1868, that the undermentioned estates, or shares of estates, in the district of Mymensingh will be put up for sale at the Collector's office of that district on 7th January 1890 for arrears of revenue for the kist of September 1889 and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.'

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs A P.				Rs A P.	Rs A. P.	Rs A. P.
13	Zemindari hissa 1 anna, pergunnah Attia	702 13 0	... .	5*a.* 12*g.* 2*c.* of ijmali share	Hafez Mahamed Ali Khan.	47 1 4		10 12 0
25	Taluk Amtala, pergunnah Tarap Bowkhanda.	1,201 1 0	Whole	.....	R W Hallow and others.	.....	9 13 0	
70	Zemindari pergunnah Joyanshye	10,525 14 0	.....	2*a* 5*g.* 2*c.* 6*d.* share for which a separate account has been opened	P. N. Pogose	1,503 12 0	..	333 15 0
86	Zemindari, pergunnah Hossenshye.	45,457 15 0	.	Ijmali share exclusive of the separate account opened under section 10, Act XI of 1859, and section 70 of Act VII of 1876	Sharat Chandra Roy Chowdhury.	3,856 10 0	..	103 1 0
66	Ditto ditto ...	45,457 15 0	.....	Hissa 4 annas separated under section 10 of Act XI of 1859	Mr. Aratoon and others.	11,214 2 0		706 4 0
96	Zemindari hissa 4*a.* 1 ¾ 10*g* with Bejaberta taluks, pergunnah Nasirugial	7,197 10 0	..	Ijmali share exclusive of the separate accounts opened under sections 10 and 11 of Act XI of 1859 and section 70 of Act VII of 1876	Mahamed Mofeder Roheman.	886 2 0	.. ..	30 13 0
96	Ditto ditto ..	7,197 10 0	..	Hissa 1*a* 6*g* 2*c.* 2*k.* of Sreram-pur separated under section 70 of Act VII of 1876	Durga Keshore Acharge Chowdhury.	5 2 0		3 14 0
96	Ditto ditto .	7,197 10 0	...	Hissa 4*a* 18*g* 1*c.* share of kismat Chapila Kanda and 5*a* 15*g* share of kismat Raj Nagar separated under section 70 of Act VII of 1876.	Padma Nath Sen Roy and others	14 6 0	..	6 4 0
116	Taluk Newayali, hissa 8*a* tappeh Ranbhowal.	2,638 15 0	.....	Ijmali share exclusive of the separate account opened under section 70 of Act VII of 1876.	Raga Surga Kanth Acharge Bahadoor and others.	615 4 0	..	59 7 0
116	Ditto ditto ...	2,638 15 0	.	Separate share opened under section 70 of Act VII of 1876.	Mahamed Doulat Sarcar.	5 0 0		1 0 0
116	Ditto ditto .	2,638 15 0	...	Ditto ditto .	Shekh Jamir	4 13 0	... ..	1 13 0
124	Paindabeg, hissa 13*a.* 6*g* 2*c* 2*k*, tappeh Hazradi.	1,796 2 0	... ..	7*a* 5*g* share of kismat Patnabhanga 6*a* 5*g* of Nagor Hazradi, 2*a* of Birmoshua, 8*g.* of Chakia Mahabalpur, and 16*a* share of the remaining mouzahs of the estate.	Sh rajanessa Bibi and others	358 15 0	.. ..	40 13 0
1761	Taluk Rup Chamra Ratna Gorbha Mosumder, pergunnah Hossenshye	627 5 0	... ..	Ijmali share exclusive of the separate account opened under section 10 of Act XI of 1859 and section 70 of Act VII of 1876.	Jogat Moyi Debia and others.	240 11 0	..	17 7 0
4071	Chur Hasipur ..	518 9 0	.	5*a.* 13*g.* 1*c.* 1*k.* of ijmali share	Deno Nath Choorabartty	181 9 0	.	7 2 0
6179	Joar Jagat Chur, pergunnah Bardakhat, tappeh Kurikhye	754 8 0	....	1*a.* share for which a separate account has been opened.	Ram Keshab Shaha and others.	47 3 0	.....	11 10 0
7893	Taluk Nuranessa Khanum with ijmali mouzah Taratea D gar, tappeh Ranbhowal	1,908 0 0	Whole	....	Administrator-General of Bengal.	... ..	173 14 8	
				2nd Class Estate.				
3013	Chur Shak Chura, tappeh Ranbhowal	511 0 0	.....	15*a.* 17*g.* of ijmali share ...	Goloke Chandra Bhattacharjee.	506 4 0	.. ...	117 0 0

Mymensingh Collectorate, the 14th November 1889 JUGGOBUNDHOO KHAN, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's Office of that district on 7th January 1890 for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
26	Kismat 1*a.* 6*g.* 2*c.* 1*k.* 4*d.*, pergunnah Bardakhat.	Rs. A. P. 13,819 4 9	... .	3*a.* 11*c.* Kharija.	Srimati Barni Khanam and others.	Rs. A. P. K. 2,408 0 8 2½	Rs. A. P. —	Rs. A. P. K. 603 3 7 8 due up to Bhadra 1296 B.S. 84 1 6 12½ due up to Bhadra 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859. Twelve annas share have been separated under section 10 of Act XI of 1859 The remaining 4 annas will be sold.
36	Kismat 3*a.*, pergunnah Chowdhagaon.	1,200 0 6	.....*	4*a.* not separated under Act XI of 1859.	Ambika Charan Lashker and others.	340 0 0 17½	...		
236	Talook Ramdhan Majumder, pergunnah Mohanpur.	1,189 13 10	.....	10*a.* 17*g.* 1*c.* 1*k.* not separated under Act XI of 1859.	Alam Rajah *alias* Idhan Guzi Chowdry and others.	793 3 11 0	.....	52 7 4 0 due up to Bhadra 1296 B.S.	
372	Mouzah Ahamudpur, pergunnah Bardakhat.	1,228 6 0	.....	10*a.* 13*g.* 1*c.* 1*k.* not separated under Act XI of 1859.	Ishan Chandra Ray and others.	818 14 8 0		134 12 4 0 due for kist August 1889-90.	The remaining 4 annas will be sold.
401	Jowar Bishara, pergunnah Bardakhat.	3,141 3 0	Whole ..	.....	Ditto ...	. ...	344 11 4 due for kist August 1889-90.	....	
440	Mouzah Korbanpur, pergunnah Bardakhat.	976 14 0	...	6*a.* 7*g.* 1*c.* Kharija	Ditto .	406 1 0 0	.....	44 9 0 0 due for kist August 1889-90.	Accounts separated under section 10 of Act XI of 1859.
1933	Jowar Tin Chitta, Hissa 10*a.* 13*g.* 1*c.* 1*k.*, pergunnah Bardakhat.	663 12 3	Whole	.....	Durga Charan Das Majumdar and others.	..	95 9 3 due for kist August 1889.	.....	Meadi taluk settled for 18 years from 1287 to 1304B.S.
1933	Mouzah Ganger Cost, pergunnah Bardakhat, hissa 10*a.* 13*g.* 1*c.* 1*k.*, pergunnah Bardakhat.	895 0 0	Ditto ..	....	Braja Nath Roy Chowdry and others.	.....	27 4 8 due for kist August 1889.	.....	Meadi taluk settled for 17 years from 1288 to 1304B.S.
1933	Jowar Shingula, hissa 10*a.* 13*g.* 1*c.* 1*k.*, pergunnah Bardakhat.	1,204 0 0	Ditto ...	...	Srimati Muktakshi Gupta and others.	.....	38 3 0 due for kist August 1889.	.....	Meadi taluk settled for 12 years from 1291 to 1304B.S.
1933	Mouzah Dasra Chairparah, pergunnah Bardakhat.	1,451 1 3	Ditto ...	.....	Kally Das Bhadra and others.	....	144 1 10 due for kist August 1889.	.....	Ditto.
1933	Jowar Rasullabad, hissa 10*a.* 13*g.* 1*c.* 1*k.*, pergunnah Bardakhat.	3,969 14 11	Ditto ...	.....	Kamala Kanta Podder and others.	...	620 4 10 due for kist August 1889.	.....	Meadi taluk settled for 13 years from 1292 to 1304B.S.
1920	Chur Goshaipur, No. 218, pergunnah Sarail, resumed under Regulation II of 1819.	805 0 0	... .	8*a.* 8*g.* not separated under Act XI of 1859.	Baboo Ananda Mohan Baidhan and others.	171 1 9 0	.....	6 1 4 17½ due for kist August 1889.	Meadi proprietary taluk settled for 14 years from 1291 to 1304B.S.
1926	Chur Nagarer Kandi, No. 211, pergunnah Utter Sahapur, resumed under Regulation II of 1819.	1,296 10 9	Whole...	. ...	Doctor George Manook and others.	.....	Rs. A. P. Arrear of 1294-95 B.S. 958 2 5 Malikana 65 8 1 1,023 10 6 Arrear of 1296 B.S. ... 375 0 3 Due up to kist August 1296 B.S. Malikana .. 12 6 9 385 7 0 Total 1,409 1 6	.....	Meadi proprietary taluk settled for 11 years from 1294 to 1304B.S.

Tipperah Collectorate, the 27th November 1889.

R. T. GREER, Officiating Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Shahabad will be put up to public and unreserved sale at the Collector's Office of that district on the 11th day of January 1890 for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue due on the 28th day of September 1889.

When in columns 5, 7, and 9 of the appended statement is is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mehal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold the arrears due from it.	If only a share is to be sold, the arrears due from it
			Rs. A. P.		A. P. K. M. D.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	59	Balua, pergunnah Arrah.	5,372 14 3	.....	Naragda Hotampore .. 16 0 0 0 0 Piparpauti Patti Tirpatti ... 16 0 0 0 0 Kewatia 16 0 0 0 0 Kholepore Jakhri ... 16 0 0 0 0	Ram Saran Lall ...	1,402 9 5½	.....	4 1 4½
2	62	Bakhorapore, pergunnah Arrah.	2,636 10 8	.....	Bakhorapore ... 1 3 10 0 0 Ditto . 1 4 0 0 0	Mohesh Dutt and others. Shiva Saran Singh and others.	315 4 5 222 3 6½	....	25 4 5 16 9 6½
3	206	Farhangpore, pergunnah Arrah.	790 3 0	.....	Ditto ... 6 11 11 2 4 Mustafapore Bhadwar ... 1 4 0 0 0 Sobhidoomra ... 0 6 0 0 0 Ditto 0 6 0 0 15 Siripatpore Chatar 3 9 0 0 0 Mustafapore Bhadwar ... 4 4 0 0 10 Farhangpore ... 0 0 0 0 10 Gothaulabaraoli 10 0 0 0 0	Raghoonundon Parsad and others. Jagdam Sahai Shiu Balak Lall and others.	1,173 8 1½ 17 7 4½ 153 10 8½	....	251 13 7½ 17 7 4½ 8 11 7½
4	208	Ditto ...	1,592 0 1	.....	Farhangpore ... 3 2 8 0 0 Mustafapore Bhadwar ... 4 0 0 0 0 Siripatpore . 4 2 0 10 0 Gothaulabaraoli 4 0 0 0 0 sobhidoomra ... 5 0 0 0 0 Farhangpore ... 1 8 0 0 0 Mustafapore Bhadwar ... 2 6 13 6 0 Gothaulabaraoli 1 8 0 0 0 Sobhidoomra . 2 6 0 0 0 Siripatpore Chatar 1 9 5 13 0	Jugdeo Narayen Singh and others. Raj Balam Singh ..	409 6 6 204 5 10½	....	94 10 6 9 15 9
5	222	Gyanpore, pergunnah Arrah.	1,706 10 8	.....	Gyanpore 8 0 0 0 0 Ditto .. 8 0 0 0 0	Raghunandan Prasad Pande. Radha Madho Pershad Pande.	853 5 4 853 5 4	....	106 10 6 106 10 6
6	396	Mathurapore Sonadia, pergunnah Arrah.	2,266 10 8	.....	Mathurapore Sonadia 7 1 7 0 0	Bibi Umat and others	1,574 1 4½	.....	101 15 7½
7	434	Mahoolkhurd, pergunnah Arrah	550 0 0	Whole ..	.....	Ram Saran Singh and others.	.....	0 14 0	.....
8	550	Padcorah, pergunnah Arrah.	1,291 0 0	Do. ..	.....	Madho Pershad and others.	.....	1 2 0	.....
9	633	Semana Jeo Narayen, pergunnah Arrah.	868 8 6	.....	1 4 0 0 0 2 8 0 0 0 9 5 1 6 10	Kali Charun Singh Abiram Singh and others Moti Singh and others	74 0 8½ 148 1 5 523 4 2	....	0 0 8½ 0 7 5 3 3 11½
10	771	Taufir Kutwa Rampore, pergunnah Barahgawan.	1,080 0 0	.....	13a.	Jhagroo Pande and others.	877 8 0	.....	13 14 5
11	816	Raipore Binawan, pergu nah Barahgawan.	2,126 3 4	Whole	.....	Bhugwan Das and others.	.....	21 9 8	.....
12	1161	Padaria, pergunnah Belara.	1,530 0 0	Do. ..	.....	Babu Baijnath Sahai	.....	0 8 0	.....
13	1576	Baghelwa, pergunnah Chausa.	586 0 0	.....	8a.	Debi Dyal Chobe and others	293 0 0	.....	3 8 9
14	1607	Chilbila Kadipore, pergunnah Chausa.	751 9 6	Whole	.....	Ram Nihora Ram and others.	.....	1 10 7	.....
15	1620	Chhabri Patti Bhichook Sahu, pergunnah Chausa.	720 14 7	Do. ...	.....	Dandi Pando and others.	.....	75 0 4	.....
16	1719	Indaurpati Girdhari Singh, pergunnah Chausa.	584 5 7	Do. ...	.....	Isri Rai and others ...	.....	29 0 11	...
17	1948	Puradh, pergunnah Chausa	760 9 5	Do.	.....	Bhopat Rai and others	....	0 11 0	.....
18	2006	Tiwai, pergunnah Chausa.	502 5 3	.....	Temai ... 7 9 10 0 0 Do. ... 3 6 10 0 0	Bhairo Rai and others Shoo Dhark Miser and others.	244 11 11½ 111 4 8½	....	72 3 9 1 2 0
19	2144	Barijoo, pergunnah Chainpore.	764 12 2	.....	12a.	Mahabir Prasad and others.	573-10-1-10½	.....	10 10 11
20	2163	Baghi, pergunnah Chainpore.	859 11 9		7a. 6p.	Ram Dat Rai and others.	403 0 2½	.....	40 15 0½
21	2165	Bandipore, pergunnah Chainpore.	933 5 4	Whole ...	.....	Baijnath Sahai ..	.....	0 7 8	.....
22	2173	Bahiree Kalan ..	508 10	.....	6a.	Naipal Singh and others	190 12 9½	.....	25 5 0½
23	2188	Bairi Raghoonath, pergunnah Chainpore.	1,825 13 10	Whole	...	Suraj Narayan Singh and others.	...	667 6 3	.....
24	2250	Bharkhar, pergunnah Chainpore.	722 6 5	.....	13a. 8p. 11k. 8m. 9d ...	Dhan Coomar Chund and others.	619 2 4	.....	42 3 4
25	2317	Chata, pergunnah Chainpore.	709 5 4	Whole.	.....	Mussamut Hussemi Bibi and others.	.	114 12 5	... ..
26	2332	Darwan Meah, pergunnah Chainpore.	1,066 10 8	.....	4a.	Girdhari Rai and others.	286 10 8	....	16 0 3½
					3a. 2½p.	Sivabaren Rai and others.	211 1 9½	... ..	3 11 3½
27	2337	Dumduma, pergunnah Chainpore.	936 0 5	Whole.	... ..	Samrath Rai and others	...	5 5 5	... .
28	2356	Daudwa ...	804 10 9½	....	8a.	Girdhari Singh and others.	403 5 4½	.	85 3 6½
					5a. 4p.	Parbhoo Singh and others.	268 3 6½	...	72 11 4½

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
							Rs. A. P.	Rs. A. P.	Rs. A. P.
29	2357	Daudkheli Moharakpore, pergunnah Chainpore.	739 2 1	Whole.	.....	Mohip Narayen Singh and others.	.....	46 10 6	.....
30	2364	Dohrak, pergunnah Chainpore.	1,668 5 3	Do. ..	..... A. P. K. M. D.	Baijnath Sahai ...	.....	0 0 2	.....
31	2433	Goi, pergunnah Chainpore.	1,444 0 0	.....	Lanka 2 8 0 0 0	Ram Saroop Singh .	98 13 2	.....	66 3 2
					Li 2 8 0 0 0				
					Lanka 2 8 0 0 0	Ram Sabhi Singh and others.	130 3 2	.....	3 8 8
					Li 2 8 0 0 0				
					Goi 2 8 5 18 0	Mussamut Lakhpati Koer.	143 2 3	.....	7 14 3
					Lanka 2 8 5 18 0				
					Do. 10 7 14 2 0	Aher Singh and others.	874 2 9	.....	876 11 8
					Goi 13 3 0 14 2				
					Li 5 4 0 0 0				
32	2519	Hamirpore, pergunnah Chainpore.	608 0 0	Whole	.....	Radha Mohan Prasad	.....	37 14 11	.....
33	2542	Imilia, pergunnah Chainpore.	611 3 2	Do. ..	.....	Herkhoo Singh and others.	.....	79 2 7	.....
34	2618	Karji, pergunnah Chainpore.	1,132 2 2	.....	Kurji ... 1 6 0 0 0	Thakoor Dyal Singh and others.	133 4 3½	.....	8 0 0
					Kargaon . 1 6 0 0 0				
					Babhnaon ... 1 6 0 0 0				
					Dubri ... 1 6 0 0 0				
					Kurji ... 6 0 0 0 0	Mussamut Janki Koer and others.	793 9 7½	.....	43 9 7½
					Kargaon ... 6 0 0 0 0				
					Babhnaon ... 6 0 0 0 0				
					Dubri ... 6 0 0 0 0				
					Nainpura ... 12 5 6 13 5	Zalim Singh and others.	49 12 5½	.....	16 2 8½
35	2633	Kaliyanpore, pergunnah Chainpore.	533 5 4	Whole.	.....	Deo Narayen Singh and others.	.....	154 8 9	.....
36	2647	Katas, pergunnah Chainpore.	713 9 7	.....	13a. 4p.	Doman Singh and others.	594 10 7½	.....	240 10 7
37	2761	Majharia, pergunnah Chainpore.	1,066 10 8	Whole.	.....	Baijnath Sahai ...	.....	0 1 4	.....
38	2774	Masandher, pergunnah Chainpore.	680 4 4	Do. ...	.....	Bal Kishoon Sahai and others.	.....	142 8 7	.....
39	2878	Nawajhouti ...	814 14 11	Do. ...	.....	Gopal Sarun Singh and others.	... ..	308 0 2	.....
40	2944	Pariari, pergunnah Chainpore.	1,527 7 6	Do. ...	.....	Radha Mohan Prasad Pande and others.	.....	94 12 6	....
41	3051	Sirirampore *alias* Sarla.	1,441 1 1	Do. ...	.....	Baijnath Sahai ...	.....	0 3 4	.....
42	3074	Sondhi, pergunnah Chainpore.	1,036 4 3	.....	Baroona 16 0 0 0 0	Lala Scanund and others.	1,606 6 5	.....	25 6 10
					Mujhgoan ... 16 0 0 0 0				
					Jigna 16 0 0 0 0				
					Madanpoora ... 16 0 0 0 0				
43	3102	Shiopore Bhal, pergunnah Chainpore.	967 7 6	.....	2p.	Tilakdhari Lal ...	10 1 3	.....	2 14 6
44	3178	Tari, pergunnah Chainpore.	869 14 3	...	Tari 4 0 0 0 0	Debi Dyal Singh ...	124 12 5	.... .	2 9 3
					Patti Kasir ... 4 0 0 0 0				
					Jaddapore . 4 0 0 0 0				
					Tari 9 4 0 0 0				
					Jadu Kant ... 9 4 0 0 0				
					Patti Kasir ... 9 4 0 0 0				
					Jadupore ... 5 4 0 0 0				
					Sonbersa .. 5 4 0 0 0				
					Basantpore .. 5 4 0 0 0	Gopal Sarun Singh and others.	300 7 0½	.....	33 10 8½
					Bhugwanpore ... 5 4 0 0 0				
					Baradinri ... 16 0 0 0 0				
					Kakarha ... 16 0 0 0 0				
					Salondha ... 16 0 0 0 0				
					Ghusna ... 16 0 0 0 0				
45	3634	Kushi Sadhwa, pergunnah Dinara.	1,000 0 0	.....	Kush 8 10 13 6 10	Ram Sarun Lall and others.	161 4 8½	...	12 12 4½
					Rehi 8 10 13 6 10				
					Daeraon 5 4 0 0 0				
46	3639	Khedaoi, pergunnah Dinara.	986 10 8	..	Khadaon Khurd 11 2 8 0 0	Raghoobir Sarun Thakoor and others.	690 10 4	.....	20 3 4
					Khadaon Kalan 11 2 8 0 0				
					Dhanchooa ... 11 2 8 0 0				
					Bhanjandihra 11 2 8 0 0				
47	3645	Patti Kamiari, pergunnah Dinara.	1,025 1 1	Whole.	.....	Sona Koer and others.	.....	7 0 5	.....
48	3703	Barookhi, pergunnah Nonore.	2,843 0 0	Do. .	.....	Madho Pande and others.	.....	4 5 9	. ..
49	3767	Herapore Lasadi, pergunnah Nonore.	2,242 0 0	.....	Lasadi 16 0 0 0 0	Ram Sarun Singh and others.	5,085 8 0	.....	6 3 6
					Hirapore Dhamaria. 8 0 0 0 0				
50	3782	Koulo Dehri, pergunnah Nonore.	752 9 8	Whole.	...	Lachmi Narayen and others.	.....	104 4 8	. ....
51	3843	Mirzapore Atpa ...	645 0 0	.... .	8a.	Ditto ...	322 8 0	.....	37 0 0
52	4102	Sandeo, pergunnah Pawar.	1,006 10 8	Whole ...	.....	Bisumbher Singh and others.	....A	9 12 3	.....
53	4292	Doman Dehri, pergunnah Piro.	606 10 8	Do. ...	.. ...	Budhan Singh and others.	.....	102 6 11	.....
54	4294	Damarua, pergunnah Piro.	900 0 0	Do. ..	.....	Aga Sultan Tafazal Hossain.	.....	112 0 0	.....
55	4509	Makundpore Jamsoudi.	500 0 0	Do. ...	.....	Bahnan Ojha and others.	.....	4 7 8	.....
56	4667	Sonbersa, pergunnah Piro.	520 0 0	.... .	1p.	Mussamut Moorta Koer.	2 11 4	... ..	6 15 2
57	5109	Chundonpore, pergunnah Sasseram.	586 10 8	.....	14a. 4p. 10k.	Makund Pande and others.	527 1 4	.....	6 11 0
58	5633	Mahuari Baraicha.	658 2 2	.....	Mahuari ... 16 0 0 0 0	Mussamut Bibi Fatma and others.	331 11 9½	.....	41 15 3½
59	5933	Suara Sakhan, pergunnah Sasseram.	718 8 5	.... .	Paraula ... 16 0 0 0 0				
					8a. 9p. 3k. 16m. 4½d.	Manoo Rai and others.	390 7 0	.....	23 0 10
60	6182	Noorpore Majhouli, pergunnah Arrah.	533 7 5½	Whole.	...	Chaudhry Abhiram Singh and others.	.....	0 2 1	.....

Shahabad Collectorate, Arrah, the 22nd December 1889

E. F. GROWSE, Offg. Collector.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1889.			
Dec. 17	2 Cases, 104 in a diamond, A B & Co. outside ...	Order ...	S. S. "Roumania."
,, 17	1 Case, A M in a diamond, J C & S below ..	Ditto ...	Ditto.
,, 17	1 Bale, G R & Co. in a diamond, C R S R outside...	Ditto ...	Ditto.
,, 17	52 Packages iron, C F R Simpson, Esq., Chituarrah Factory, Tirhoot, Bengal, India, or no mark, care of Messrs. K. Hamilton & Co.	Addressed ...	Ditto. Ditto.
,, 17	4 Cases, M E B in a triangle, C H L & Co. top	Order ...	Ditto.
,, 17	1 Bale, G by Misser N in a circle	Ditto ...	Ditto.
,, 17	2 Kegs, 251 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 17	2 Cases, N & Co. by 111 in a diamond, L below ...	Ditto ...	Ditto.
,, 17	3 Packages, no mark	Ditto ...	Ditto.
17	1 Case, 327 in a triangle, S S top	Ditto ..	Ditto.
,, 17	1 Case, R. White, Esq., care of Messrs. Jardine, Skinner & Co.	Addressed ...	Ditto.
,, 17	1 Case, W L	Order ...	Ditto.
,, 17	2 Cases, 370 in a diamond, T top	Ditto ...	Ditto.
,, 17	1 Case, Messrs. Schroder, Smidt & Co. ...	Addressed ...	Ditto.
,, 17	2 Packages, Samnugger	Order ...	Ditto.
,, 18	1 Case, 554 in a triangle, C H L & Co top ...	Ditto ...	S. S. "City of London."
,, 18	1 Case, C P	Ditto ...	Ditto.
,, 18	500 Kegs, D in a diamond	Ditto ...	Ditto.
,, 18	2 Packages, D E A S in a block	Ditto ...	Ditto.
,, 18	1 Case, 8505 in a diamond, D U F F outside ...	Ditto ...	Ditto.
,, 18	10 Cases, D by 510 in a triangle, M E B outside ...	Ditto ...	Ditto.
,, 18	5 Cases, D 500 in a triangle, C H L & Co. top ...	Ditto ...	Ditto.
,, 18	1 Case, Miss Gault, care of Miss Pattson, Zenana Mission House, Benares.	Addressed ...	Ditto.
,, 18	3 Cases, 25 in a double triangle, G D F H outside...	Order ...	Ditto.
,, 18	25 Cases, J P V & Co. in a diamond	Ditto ...	Ditto.
,, 18	5 Cases, L O C K E	Ditto ...	Ditto.
,, 18	3 Cases, M E B in a triangle, C H L & Co. top ...	Ditto ...	Ditto.
,, 18	6 Cases, 272 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 18	2 Cases, T C by N in a diamond	Ditto ...	Ditto.
,, 18	1 Case, 522 in a diamond, W below	Ditto ...	Ditto.
,, 18	2 Cases, W T & Co.	Ditto ...	Ditto.
,, 18	1 Case, 533 in a diamond, W below	Ditto ...	Ditto.
,, 18	5 Packages, Y in a triangle, C R top	Ditto ...	Ditto.
,, 18	1 Parcel, G & Co. in a block	Ditto ...	Ditto.
,, 18	2 Iron chains, no mark	Ditto ...	Ditto.
,, 18	1 Case, J M in a diamond	Ditto ...	Ditto.
,, 18	6 Packages, B in a triangle, J S top, or no mark ...	Ditto ..	Ditto.
,, 18	1 Case, B B in a diamond, Y P below	Ditto ...	Ditto.
,, 18	1 Case, B in a diamond, J S top	Ditto ...	Ditto.
,, 18	3 Cast iron pipes, M & E	Ditto ...	Ditto.
,, 18	197 E W Pipes, A C S by Samnugger	Ditto ...	Ditto.
,, 19	2 Bundles sheet iron, B by 26 in a block ...	Ditto ...	S. S. "Clan Macpherson."
,, 19	17 Packages, no mark	Ditto ...	Ditto.
,, 19	4 Cases, A K in a diamond, H F top	Ditto ...	Ditto.
,, 19	5 Iron chains, S M	Ditto ...	Ditto.
,, 19	1 Case, S D C	Ditto ...	Ditto.

The 28th December 1889. (3408—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 23rd December 1889.

LIABILITIES.

	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office ... ... Rs. 84,77,538 10 0			
Ditto ditto at Branches ,, 61,20,827 1 8	1 45,98,365	11	8
Other Deposits at Head Office and Branches	3,41,66,101	7	10
Bank Post Bills, &c.	2,60,278	3	1
Sundries	14,73,606	7	2
Rupees ...	7,62,98,331	13	9

ASSETS.

	Rs.	A.	P.
Government Securities	19,87,248	0	0
Other authorized Investments	74,57,434	12	0
Loans on Government and other authorized Securities	1,18,35,894	1	9
Accounts of credit on ditto ditto	99,94,687	9	11
Bills discounted and purchased	2,38,25,788	4	3
Balances with other Banks	11,52,084	11	4
Bullion	2,27,850	12	6
Dead Stock	12,41,346	12	4
Stamps	10,987	9	0
Sundries	1,32,574	4	2
	5,78,65,826	13	3
Cash and Currency Notes at Head Office ... Rs. 67,64,456 15 8			
Cash and Currency Notes at Branches ... ... ,, 1,16,68,048 0 10	1,84,32,505	0	6
Rupees ...	7,62,98,331	13	9

BANK OF BENGAL,
Calcutta, 27th December 1889.

R. L. BIRD, Chief Acctt.
Rate for Demand Loans 6 per cent.
Percentage 36·5.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.
(3405—1)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sâl beams and scantlings supplied from this depôt will be as follows :—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 „ „ 2-12 „
23 „ „ 2-14 „
24 „ „ 3 „

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 „ 2-4 „
Under 7 feet „ 2 „

The above prices are for ordinary building purposes For *Planking Sleepers, &c.*, special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates :—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates :—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates

Amended Notice.

Court of the Additional Subordinate Judge of Rungpore.

PERIODICAL sittings for the year 1890 will be held by this Officer at Julpiguri on the following dates :—

January	27th.	July	24th.
April	7th.	September	15th.
June	2nd.	December	8th.

J. R. HALLETT, District Judge.

Rungpore Judge's Court, the 14th December 1889.

Notice.

THE public are hereby informed that a Fair will be held at Falakata, in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 23rd January 1890 (A.D.) corresponding with 11th Magh 1296 (B.S.), and will continue up to 6th February 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets, cloth of sorts, ivory, wool, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet, as also rice, paddy, jute, cotton, tobacco, mustard seed, wheat and other crops, which are grown in the Western Dooars, will be available at the Fair. Falakata is on the left or east bank of the Mujnai river, and within easy reach of Julpigoree and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 10th December 1889.

Notice.

THE public are hereby informed that a Fair will be held at Santrabari, at the foot of the Buxa hills in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 10th January 1890 (A.D.) corresponding with 29th Pous 1296 (B.S.), and will continue up to 20th January 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets and cloth of sorts, yak tails, wool, ivory, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet will be available at the Fair. Santrabari is within easy reach of Mogul Hât Railway station and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 7th December 1889.

Notice.

THE public are informed that the Furreedpore Agricultural Exhibition and Mêla for the year 1890 will commence on Monday, the 6th January 1890, corresponding to 23rd Pous 1296 B.S., and continue to 20th January 1890. Tradesmen, shopkeepers and dealers may buy and sell on the Mêla ground from 1st January 1890 till the end of the month.

R. M. WALLER, Magistrate-Collector.

FURREEDPORE, the 11th December 1889.

In the Court of the Subordinate Judge of Hooghly (2nd Court).

RENT EXECUTION CASE No. 61 OF 1889.

T. A. Pearson, Esq., Acting Receiver of the High Court, and Receiver to the Estate of Surath Nath Mallik, decree-holder, *versus* Nagendra Nath Mallik, judgment-debtor.

THE undermentioned properties of the above judgment-debtor will be put up to sale to the highest bid on the 13th January 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Hooghly, in his sale-room in the Court-house, for the realization of Rs. 6,156-3-3 :—

Plot I.—Two annas share in revenue-free mouzahs Argori, Prosasto and Jhorehat, comprised in Hooghly Collectorate. Taided No. 23983, and situate in pergunnah Mozufferpore, station Domjur, and sub-registry Howrah.

Plot II.—Six bighas revenue-free lands called debtor's *Golap Bag*, containing 2 tanks, one jheel and various sorts of trees, and surrounded on all sides by brick-built walls and situate in Andul, pergunnah Mozufferpore, sub-registry Howrah, and butted and bounded on the east by debtor's vegetable garden, on the west by the Sudder road, on the north by a lane, and on the south by the *Andul Rajbati* and Trailakya Nath Ray's lands.

The upset value given by the decree-holder of each of the above properties is Rs. 200.

KEDAR NATH MAJUMDAR, Subordinate Judge, Hooghly.
(3374 - 3)

LETTERS of Administration (with copy Will and Codicil annexed) of the property and credits of Edward John Morgan, formerly of Oak Cottage, Parkestone, near Poole, in the County of Dorset, but late of Forefield House, in the City of Bath, in the County of Somerset in England, Esquire, deceased, have been granted by the High Court, Calcutta, to G. W. F. Buckland, Esq., of No. 1, Esplanade West, Calcutta, as the Attorney of the executors named in the Will of the deceased. All persons having claim against the deceased are requested to submit same to the Administrator before the 15th day of February next, after which date no claims will be admitted.

J. A. APCAR, Attorney.

Calcutta, 30th November 1889. (3320—3)

WANTED a Municipal Overseer on Rs 35 a month for the Barisal Municipality. Applications, with copies of testimonials, will be received by the undersigned up to 15th January 1890.

DWARKA NATH DUTT, Chairman, Barisal Municipality.

(3373—3)

Notice.

WANTED temporarily the services of a Nagri Interpreter, possessing a thorough knowledge of Marwari book-keeping. Salary Rs. 60 per mensem.

S. J. KILBY, Collector.

Income-tax Office, dated Calcutta, the 30th December 1889.

Notice.

WANTED a Civil Court Ameen for the district of Manbhoom on a salary of Rs. 50 per mensem

Candidates must possess a thorough knowledge of English, Bengali, and Surveying, besides holding a diploma of having passed the junior grade Pleadership examination as required by the High Court's Circular No. 24 of November 1858

Applications will be received up to the 10th proximo.

E. N. BAKER, Deputy Commissioner, Manbhoom.

Manbhoom, Deputy Commr.'s Office, the 23rd December 1889.

Notice.

WANTED an Overseer for the Dinagepore Municipality. Salary Rs. 45 and horse allowance Rs. 10 a month. Passed Overseers of the Public Works Department, with experience in municipal works, are only required to apply. Applications will be received by the undersigned up to 25th January 1890.

SITAKANT MOOKERJEE, Vice-Chairman.

Dinagepore, the 27th December 1889. (3406 - 3)

New Beerbhoom Coal Company, "Limited."

NOTICE is hereby given that the Thirty-third Ordinary General Meeting of the Shareholders of the above Company will be held at the Office of the Company, 1, Hastings Street, at noon on Saturday, the 4th January 1890, for the purpose of receiving the Directors' Report, passing the accounts for the Half-year ending 31st October 1889. declaring a dividend, electing Directors, and for the transaction of any other business that may be brought forward

The share transfer books will be closed from 21st instant to 4th proximo, both days inclusive.

A. R McINTOSH. & Co., Managing Agents.

1, Hastings Street, Calcutta, the 16th December 1889. (3378 - 3)

Notice.

I, GIRIJAMANI DEBYA of Saydabad, Hotarpara, in the town of Berhampore, district Moorshedabad, police-station Sujaganj, do hereby declare that I have appointed my dear Baboo Sita Kanta Mukharji, son of late Baboo Kamala Kanta Mookharji, my sole general agent and manager for all my properties in this and Dinagepore and other districts to the entire exclusion of all others, and I hereby declare that I shall not be responsible for the doings of any other person than those of Baboo Sita Kanta Mukharji

SREEMATTY GIRIJAMANI DEBYA.
SITA KANTA MUKHARJI, Am-Mukhtar.
Zemindar.

(3368—3)

Calcutta Municipality.

BYE-ELECTION UNDER ACT II (B.C.) OF 1888.

DECLARATION of result of bye-election under section 19.

Bye-election of Ward No. II—One Commissioner to be elected.

Name.	Residence.	Remarks.
Dr. U. K. Dutt ...	337, Upper Chitpore Road.	Withdrew at the commencement of the poll
Baboo Chundy Lall Singh.	116. Baniatola Street	Elected.

H. L. HARRISON, Chairman of the Corporation of Calcutta. (3407—1)

In the Court of the Subordinate Judge of Furreedpore.

EXECUTION CASE No. 78 OF 1889.

Upendra Lall Mookhapadhya, decree-holder, *versus* Jati Prasad Mookhopadhya, Anookul Prasad Mookhopadhya, Jadookul Prasad Mookhopadhya, sons and heirs of Sarada Prasad Mookhopadhya, deceased, judgment-debtors

TO be sold in the above case by the Nazir of the District Judge's Court at Furreedpore, at 12 o'clock on the 20th of January 1890, the right, title, and interest of the judgment-debtors for the satisfaction of decree for Rs. 1,142-5-4 :—

1. Seventeen gandas 3 karas and 1 donti share of the estate, bearing No. 115 on the revenue roll of the Dacca Collectorate, and situate within the jurisdiction of the registry office and sub-registry office and police-station Furreedpore, in pergunnah Patpashar, and in kishamats Tepakhala, Bhajandanga, Sadipur, Godadhardangi, Charhooshni, Amirabad, Gadadhardangi, Charhooshni, Shaktabad, char reformed in the diluviated site of Hazigange, Toolagram, Raykeleo, Khashkandi, Tepakhala, char reformed in the diluviated site of Kharakanda, Mamoodnagar, Hazinagar, and within the jurisdiction of police-station Ainpur kishamat Ainpur, Shabhar, Gotti, Bishnoodi, Azia Moozurdia, and also in district Dacca, registry office Dacca, sub-registry office and police-station Manikgunge, kishamats Badhera, Khabaspur, Krishnapur, Nabogram, Kathalia, Dirghachatra, Pooroolia, Hatani Harania, Monakamadhupur, Katshagara, Ornakta, Challia, Egarachree, Pootiail, Diail, and in the police-station and sub-registry office Nawabgunge, kishamat Sholabazoo, and in police-station sub-registry office Harirampur, kishamats Notakhola, Kabilpur, Rastampur, Brahmankanda, Potogram, Kharia, Patankandi, Madhupur, Gabirpur, Baliachak, Bidirkandi, Chilimpur, Haglakandi, Pawni, Paikardia, Mohalapara, Mazlishpur, Sajandia, Diabari, Tenia, Jhigaltia Koomarkooti, Paragram, Pachdhara, Gauribardiachar, Byashdi, Bahirchar, Bashara, Bahalatoli.

The annual revenue payable to Government for the entire estate being Rs. 10,768-0-0½.

KHETTER PROSAD MUKERJEE, Offg. Subordinate Judge.

Furreedpore, the 28th December 1889. (3409—1)

Notice.

IT is hereby notified, under section 5 of the Indian Treasure Trove Act VI of 1878, that on the 28th October 1889, treasure consisting of one silver girdle, weighing 31 tolas, and two silver knife-sheaths, weighing together 6 tolas, and valued at about Rs. 35, was found in an earthen pot by Payaningal Unichennan while digging up the ground floor of his house (which was being renewed) in Puthentheruvu in Neduva Amsam and Desam of the Ernad taluk, Malabar district, in the presidency of Madras.

2. All persons claiming the said treasure or any part thereof are hereby required to appear personally or by agent before the Collector of Malabar at his office at Calicut on the 7th May 1890, in order to the matter being enquired into and determined in accordance with the provisions of the Act.

H. M. WINTERBOTHAM, Collector.

Malabar Collector's Office, Calicut, the 7th December 1889

AKSHAY KUMAR BHUTTACHARYYA intends to be enrolled as a Vakil of the High Court, Calcutta.

(3347—4)

Notification

THE Zamindari Dâk Tax in the district of the 24-Pergunnahs for the year 1890-91 is fixed at the rate of eight annas per cent. per annum on the sudder jumma of estates paying a revenue amounting to Rs. 50 and above.

The amount due for each estate is payable in two instalments, the first being due on the 1st June 1890, and the 2nd on the 16th December 1890.

A. FORBES, Magistrate of 24-Pergunnahs.

Notice under Section 30 of Act XIV of 1882.

NOTICE is hereby given that on the thirteenth day of June last, Mooraly Dhur Sen residing at No 59-4, Bhowani Churn Dutt's Lane, Kulutollah, in the Town of Calcutta, an attorney and vakeel of the High Court of Judicature at Fort William in Bengal, carrying on business as such at No 7, Church Lane, in Calcutta aforesaid, instituted a suit in such Court in its Ordinary Original Civil Jurisdiction against Doorgasundari Dassee, commonly called Rani Doorgasundari Dassee, residing at the Rajbaree, in the village of Andool, in the district of Howrah, in her own right and in her right as the surviving executrix of the last Will and Testament of Bejai Keshav Roy, commonly called Rajah Bejai Keshav Roy of the Rajbaree aforesaid, Hindoo zemindar, deceased, and (with the permission of the Court) against Khetter Krishna Mitter, residing at Andool aforesaid, Hindoo inhabitant, on behalf of himself and all other persons who on the death of the said Rani Doorgasundari Dassee may become the heirs of the said Rajah Bejai Keshav Roy, deceased, for a declaration that the said Mooraly Dhur Sen is entitled to be paid out of the estate of the said Rajah Bejai Keshav Roy, deceased, the sum of rupees thirty-eight thousand and thirty-four and annas six, being the balance due to him for work and labour done and moneys paid for and on account of the said Rani Doorgasundari Dassee in her capacities as the surviving executrix of the Will, and as the surviving widow of the said deceased, and that the immoveable property belonging to the estate of the said deceased is validly charged with the payment of the said sum of rupees thirty-eight thousand and thirty-four and annas six, and for an order that the said Rani Doorgasundari Dassee do out of the estate of the said deceased, and out of her own funds, pay to the said Mooraly Dhur Sen the said sum of rupees thirty-eight thousand and thirty four and annas six with interest and costs of suit by a short date, and that in default thereof the said immoveable property and certain jewels belonging to the said Rani Doorgasundari Dassee, and which are now with the said Mooraly Dhur Sen, be sold under the direction of the Court, and the claim of the said Mooraly Dhur Sen be satisfied out of the sale proceeds (the house No. 2, Banstollah Street, being sold subject to the mortgage of one Woomacanto Sen), and in case of any deficiency, and the said Rani Doorgasundari Dassee not admitting assets of the said estate sufficient to pay the same, then for administration of the estate of the said deceased and for the appointment (if necessary) of a Receiver to take charge of the said immoveable property.

Dated this twenty-eighth day of November, one thousand eight hundred and eighty-nine.

By order of the Court.

R. BELCHAMBERS, Registrar.

Jogendro Nath Sen, Attorney. (3348—1)

Notice.

Bhaugulpur District Board.

IT is hereby notified that under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Bhaugulpur have, by a resolution passed at a meeting held on the 7th December 1889, determined to levy road cess for the year 1890-91 at the maximum rate, viz. six pies in the rupee on the annual value of land.

A. A. WACE, Chairman.

Road Cess Notification.

DISTRICT BOGRA.

IT is hereby notified for general information that under section 46, Act III (B.C.) of 1885, and section 38, Act IX (B.C.) of 1880, the District Board of Bogra have, at an adjourned Special Meeting held on the 28th December 1889, determined that the road cess in the district, for the cess year 1890-91 (from 1st April 1890 to 31st March 1891), shall be levied at the maximum rate, viz. one-half anna on each rupee of the annual value and annual net profits as described in section 6, Act IX (B.C.) of 1880.

H. G. SHARP, Chairman, District Board of Bogra.

Bogra, the 30th December 1889.

WANTED a Native Doctor, on Rs. 30 a month, for the Colgong Municipal Dispensary. Applications with copies of testimonials and diploma will be received by the undersigned up to 20th January 1890.

(3411—3) A. A. WACE, Magistrate.

POSTAL NOTICES

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom	7th Jan.	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	6th ,, ...	Ditto.
Mauritius, Mahé (Seychelles), Mayotte, Nossi Be and Réunion.	7th ,, ...	Ditto.
Zanzibar, Mozambique, Delagoa Bay, Natal and Cape Colonies	7th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	13th ,, ...	Ditto.
Australia, New Zealand, and Tasmania	13th ,, ...	Ditto.
Colombo	8th ,, ...	Per P. & O. str. *Rohilla.*
Straits China and Japan ...	7th ,, ...	Per str. *A. Apear.*
Rangoon and Moulmein ...	7th ,, ...	Ditto *Chanda*
Ditto ditto ...	8rd ,, ...	Ditto *Rajpootana.*
Akyab, Kyaukpyu, Sandoway and Rangoon.	1st ,, .	Ditto *Pachamba*
Ditto ditto .	8th ,, ...	Ditto *Commilla.*

N. B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

JOHN OWENS, Offg Presidency Postmaster.

General Post Office, the 31st December 1889.

Unclaimed Letters held in the Calcutta General Post Office on 31st December 1889.

Brown, A.
Cohen, A. M.
Hearsey, Captain A. M.
Lamden, G.
MacGregor, A.
Mitchell, T. C. A.
Murray, C.
Sinclair, Hamilton & Co.
Tines, Herren.
Thompson, G. T.
Turnbull, J.
Wroughton, W. R. & Co.

Letters marked Care of "Post Office."

Andrades, P. A.
Annfield, F
Atkinson, F. S.
Barker, F. W.
Barnes, W.
Barrington, H. E. W.
Bates, Miss E. K.
Bather, H. R.
Baxter, Mrs.
Belitski, R
Bennett, J. J. T.
Berkeley, C. M.
Boland, J.
Bolton, J. M. L
Brownlow, Miss.
Brown, W.
Bruce R G.
Burrows, C. J.
Carrapaett, Mr.
Carpendale, W. M.
Carroll J.
Charley, R.
Chatterton, J.
Comar, Mrs. A.
Cooper, H. J.
Cooper, W.
Corfuld, Capt.
Cornelius, H.
Courage, R.
Courtney, F. S.
Culbard, Mrs.
Davis, Mrs. G.
Dickson, Mrs. E.
Donatella, A.
Doughty, Mr.
Drakeford, A.
Dunlo, Viscount.
Elliott, K.
Filleul, Rev. S E. V.
Fisk, F M.
Fletcher, Neil.
Fowler, Miss.
Fraiser, H. C.
Francis, A. M.
Gage, Major.
Gellett, Cecil S.
Gibb, C.
Glover, W. E.
Godwin, George.
Gracewood, Geo.
Gray, James
Greve, E. C.

Letters marked care of "Post Office."

Griffin, Miss.	Murphy, John.
Hamilton, J. R.	Ogden, J
Hamion, Alexes.	Palmer, Mrs M.
Hardy, Mrs. M.	Partridge, Guard.
Hawksworth, Mrs.	Percival, Percy.
Herklotts, A.	Platts, Mrs. S. K.
Heseltine, H. H.	Powell, F.
Hewett, A. B.	Prenter, Miss.
Higgins, C C.	Remmington, Capt. F. A.
Hilton, R. W.	Rennard, J. R.
Hodge, Mrs. George.	Revie, S.
Hosack, D. D. F.	Ricket, Mrs.
Hosie, J.	Robins, J.
Hulton, Mrs. R.	Rogerson, Miss A.
Keane, J. J.	Rubie, Phil C.
Keisler, Dr. F. L.	Salomon, C.
Keith, Surgeon-Major J. F.	Sano, T.
Keogh, Mrs. M. C.	Shwartz, L.
Laehs, R.	Sheumon, John.
Lamb, E. G.	Shrewsbury, Miss.
Landie, Miss E.	Shworth, T. K.
Latham, Mrs.	Sisam, Rev. W. B.
Livermore, H. A.	Smith, M. O.
Leigh, Mrs.	Steinhart, Mr.
Livesay, T.	Taylor, C.
Lloyd, Willis.	Thomas G. T.
Maitland, A.	Thompson and Co.
Major, A.	Tienes, Richard.
Mathewson, F.	Tomkyns, Geo.
McAdoo, Mr.	Waddell, Alex.
McKenzie, Mrs D.	Walter, F.
McNair, Miss.	Watson, Andrew.
Menzies, C.	Westmacott, H. H.
Meyer, A. T.	Williamson, C.
Miller, G.	Willoughby, Hon. G. H. D.
Morshead, L.	Woodhouse, G.

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Aitkin, D,	MacLeod, D. J.
Bennett, J. J. T.	Marsland, W,
Edwards, C.	Scott, J, D.
Eglinton, C. A.	Wallace, Miss H.
Gibbs, Chas.	Wallace, Mrs. W. V.
Guiseppe, Celestini.	Westmacott, F. H.
Högens, Charles.	Whittaker, Hariet.
Houghton, D. W.	

Unclaimed Letters held in the Barrackpore Post Office on the 30th December 1889.

Ashburner, Geo.	Howatson, Mrs.
Boulmer, Capt.	Howatson, Mrs. F.
Brown, Miss.	King, Peter W.
Brown, Miss Edith.	Lindsay, Esq.
Caivie, J,	Ricket, E. W.
Cook, C.	Rydquist, C. F.
Feddy, Miss C S.	Stuart, C. H.
Fergusson, H. F.	Taylor, A. E.
Hitah, E.	Thompson, H. D.

JOHN OWENS,
Offg. Presidency Postmaster, Calcutta

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 27th December 1889.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	1 9	At mouth entrance practically closed.
	Thence to Nurpur ...	2 0	Tiktikipara.
	From Nurpur to Jungipur ...	2 6	Nurpore.
	,, Jungipur to Berhampur	1 9	Berhampore.
	,, Berhampur to Cutwa ...	2 6	Sihpore.
	,, Cutwa to Nuddea ...	3 0	Nidoa.
Bhyrab-Jelinghi.	Entrance from Ganges ...	3 6	
	Thence to Akriganj ...	3 0	
	Akriganj to junction of the Bhyrab and Jelinghi ...	4 0	Junction.
	Thence to Patkabari	5 6	Patkabari.
	Patkabari to Nuddea	5 0	Punditpore.
Matabanga.	Entrance from Ganges ...	3 0	
	Thence to Chuypara	1 3	Sircarpara.
	From Chuypara to Shikarpur	1 9	Pragpore.
	,, Shikarpur to Boalia .	2 0	Sampore.
	,, Boalia to Chuadanga ...	3 3	Sialmari.
	,, Chuadanga to Kissengany and Hanskhali .	3 6	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet.	Feet.	
Ganges.	Sahebganj ...	28-12-89	6	0'66	68 66	
	Rampore Boalia	28-12-89	12	3'50	45'50	
	Entrance of Bhagirati	28-12-89	7	4'35	49'66	
	Entrance of Bhyrub-Jelinghi	28-12-89	...	8'54	16'90	
	Entrance of Matabanga.	28-12-89	.	3'54	...	
Bhagirati...	Berhampur ...	30-12-89	12	3'84	37'63	
Jelinghi .	Kushnaghur ...	27-12-89	...	5'25	14'14	
	Saroopgunge ...	28-12-89	6	4'84	9'14	
Matabanga	Hanskhali ...	27-12-89	...	4 96	15'81	

PURNA CHANDRA BOSE,
for Exe. Engr., Nuddea Rivers Division.

Berhampore, the 30th December 1889.

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Ditto	ditto	1872	...	,, 3 0	,,
Ditto	ditto	1873	...	,, 3 0	,,
Ditto	ditto	1874	...	,, 3 0	,,
Administration Report of	1870-71	...	,,	0 4	,,
Ditto	ditto	1871-72	...	,, 0 4	,,
Ditto	ditto	1872-73	...	,, 0 4	,,
Ditto	ditto	1873-74	...	,, 0 4	,,
Ditto	ditto	1874-75	..	,, 0 4	,,
A table of the average monthly and annual rainfall at 98 Stations in Northern India		...	...	,, 0 4	,,
Report of the Midnapore and Burdwan cyclone of the 15th and 16th October 1874		..	...	,, 2 8	,,

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JOHN ELIOT, M.A., *Meteorological Reporter to the Govt. of Bengal.*

CALCUTTA, the 26th August 1875.

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3rd.—A Weekly and Monthly Statement of Meteorological Observations taken at 44 observing stations, and of rainfall recorded at 245 sub-divisional stations together with summaries of the more important features of the meteorology of the past week or month of the province, and of the distribution of the rainfall and its variation from the normal. Price of the Weekly Report including postage, Rs. 6 per annum, payable in advance and of the Monthly Summary Report, Rs. 2 per annum, payable in advance.

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ALEX. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Office, Bengal, the 17th March 1886.

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R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.
The 24th February 1886.

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No. 1 of 1890.

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The Calcutta Gazette.

WEDNESDAY, JANUARY 1, 1890.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., cap. 67.

THE Council met at the Council Chamber on Saturday, the 21st December, 1889.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General*.

The HON'BLE F. B. PEACOCK.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

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The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

NEW MEMBER.

The Hon'ble F. B. Peacock took his seat in Council.

STATEMENT OF THE COURSE OF BUSINESS.

His Honour the President said:—"I hesitated about calling you together before, for, until the Report of the Select Committee on the Calcutta Port Bill was in our hands, I really had nothing to lay before you, and even now the programme of business which I have to ask you to consider is a very short one, and I do not think it ought to detain us over many meetings. The first item in to day's programme is in connection with the Rules for the conduct of business. You will recollect that on two or three occasions last year we found ourselves inconvenienced by the existing Rules; and, with the assistance of Mr. Reily, I have gone through them, and I venture now to circulate a paper for your consideration. You have that paper before you, and I do not think I need further revert to the points contained in it. But I propose to ask a Select Committee to consider these amendments, and any others which may occur to them, for improving the working of the Council.

"The next item is an amendment of the Bengal Vaccination Act, 1880, and Act II, 1887. This is a purely formal matter. The rules under which vaccination is now conducted in Calcutta are based upon the Act of 1880, in which the definition of 'Calcutta' is the old definition conterminous with the original jurisdiction of the Calcutta High Court. Since then the boundaries of Calcutta have been extended by the inclusion within it of the Suburbs: it is therefore necessary to alter the definition in accordance with the terms of the new definition in the Calcutta Municipal Consolidation Act, 1888.

"The alterations made in the Calcutta Port Bill, which has been carefully considered by the Select Committee, will be explained to you by the Hon'ble Sir Henry Harrison, the Mover of the Bill, in the motion which he has to make to-day. It is the only Bill before the Council in which it seems to me there will be any room for debate, and I have no doubt it will have your careful consideration."

RULES FOR THE CONDUCT OF BUSINESS.

His Honour the President moved that a Select Committee, consisting of the Hon'ble Sir Charles Paul, the Hon'ble Messrs. Nolan and Allen, the Hon'ble Sir Henry Harrison, and the Hon'ble Dr. Rash Behary Ghose, be appointed to consider and amend the rules for the conduct of business at the meetings of the Council.

The Motion was put and agreed to.

BENGAL VACCINATION BILL.

The Hon'ble Sir Henry Harrison moved for leave to introduce a Bill to amend the Bengal Vaccination Act, 1880, and Act II, 1887. He said:—

"This Bill is a purely formal one. The present Act provides three areas for which different rules may be prescribed, viz., the old Town of Calcutta, the late Municipality of the Suburbs, and the rest of Bengal to which the Act may be extended. But since the passing of the new Municipal Act, the Town of Calcutta, as well as a large portion of the Suburban area, have been placed under the same administration, whilst the rest of the old Suburban area is assimilated with all the other municipalities in Bengal. It is therefore desirable that the definitions in the Vaccination Act should be so altered that instead of three areas, there should be only two, viz., that of the amalgamated Town of Calcutta, and that portion of the Suburbs which was formerly in the Suburban Municipality, but is now split up into separate municipalities, in conjunction with all other portions of the Province to which the Act has been extended, or may from time to time be extended. The Bill seeks to legalize these new definitions."

The Motion was put and agreed to.

CALCUTTA AND SUBURBAN POLICE SUPERANNUATION FUNDS BILL.

The Hon'ble SIR HENRY HARRISON presented the Report of the Select Committee on the Bill to consolidate the Calcutta and the Suburban Police Superannuation Funds. He said:—

"This Bill has been before the Council for some time, and the Select Committee in preparing its report have not found it necessary to make any material changes; the amendments which they have proposed being little else than verbal: therefore it is not necessary for me to detain the Council to explain the report further."

CALCUTTA PORT BILL.

The Hon'ble SIR HENRY HARRISON presented the Report of the Select Committee on the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port. He said:—

"This measure has received the best attention of the Select Committee, and they have proposed certain changes which are worthy of attention, although the substance of the measure remains untouched.

"The first important change proposed is to give one additional member to the Bengal Chamber of Commerce, the number of members having been increased from 13 to 15. It was said that the Chamber of Commerce was not sufficiently represented by four members, and that it was desirable that the number should be increased to five, so that the five branches of trade in Calcutta might be represented. This has been included in the Bill as amended by the Select Committee, and at the same time inasmuch as the Corporation of Calcutta would probably elect one native gentleman to represent them, and as the body which represents the commercial interests of the native community would also probably elect one, it was thought unnecessary to retain the provision that two of the members of the Port Commissioners must be natives.

"The next important amendment which the Select Committee have proposed is the introduction of sections regarding the valuation of the Port Trust property for the purposes of municipal assessment. Recently a question arose as to the proper assessment of the Dock property pending the completion of the Docks, and the Port Commissioners thought it right to consult the Hon'ble the Advocate-General as to the valuation proposed. In giving his opinion on the question referred to him, the Hon'ble the Advocate-General drew attention to the fact that the present Calcutta Municipal Act did not contemplate the valuation of property such as the Docks, that it was hardly adapted for that purpose, and that it was very uncertain how the Courts would interpret the law; and he suggested that it would be wise to introduce a short Act for the purpose of deciding this question.

"It was thought by the Select Committee that the amendment and consolidation of the Port Trust Act would afford the best opportunity for doing so, especially as there was a precedent in the case of Bombay, where for many years past the Port Trust Act has contained provisions regulating the valuation of the Port Trust property.

"The Select Committee have accordingly introduced several new sections embodying the proposals which they have to lay before the Council. The most important changes which they have proposed are that the Local Government, in preference to any Court of Law, should be the arbiter between the parties in the case of their not jointly agreeing to a valuation, and that a reduction of 10 per cent. should be allowed on the amount payable by an ordinary owner in consideration of the special circumstances of the Port Trust property, which in many respects entitles it to consideration in respect of municipal rating. The other consideration is that the true profit made by the Port Trust as the owner of property is that which they have to earn in order to pay interest upon the capital sunk in constructing the Docks and other works, and therefore the best and fairest method to follow is to take this interest as being the income earned by the Port Trust as an owner of property, and to treat it in the same way as capital invested in other parts of the town

is treated, viz., to take 5 per cent., which is substantially the interest which the Port Trust is paying, although they are paying various rates of interest, as the annual value upon which the municipal assessment should be fixed.

"In regard to the submission of the annual budget, we have introduced a clause making it obligatory on the Port Commissioners to submit it before the close of the preceding year. This has always been done, but, as a matter of fact, the Bill as it stood, as has been pointed out by the Government of India, did not make it obligatory on the Port Commissioners to do so, and therefore, so far as the law is concerned, this omission has been supplied, and the period within which the Local Government should pass orders on the budget has been extended from two to three months; two months being considered too short a period.

"Then the next section which has attracted attention is section 76 of the Bill (now section 85), regarding the method of dealing with private wharves and jetties outside the limits of the Port which may hereafter be brought within it. In regard to this matter one of our Colleagues has prepared a carefully written minute of dissent which has been concurred in by another Member of the Committee. As that minute explains the matter at issue between us, it is not necessary for me, in presenting this Report, to make any lengthened observations upon it; the dissent being in the hands of the Members.

"Then in sections 92 to 96 we have thought it necessary to increase the powers of the Local Government in dealing with the scale of charges. Hitherto the Lieutenant-Governor had power in the first instance, when a scale of charges was submitted to him, to approve or disapprove, or to modify it; but the scale having been once approved, there might be a difficulty at any future time, if considered advisable, in exercising the power of modifying it. Questions do arise at times, especially such questions as the tramway charges, which affect the public outside very largely, in which charges once sanctioned might at a later period become injudicious; and in order that the Government might have the full right as it were to arbitrate between the Port Trust and other bodies who may be interested, such as Railway companies, the Bill has been so modified as to enable the Local Government at any time to modify any scale of charges and require it to be altered in accordance with the interests of the public at large.

"These are the only changes of importance which the Select Committee has made in the Bill; the others being for the most part verbal alterations or alterations which explain themselves."

The Council adjourned to Saturday, the 4th January, 1890.

C. H. REILY,

Assistant Secretary to the Govt. of Bengal,
Legislative Department.

CALCUTTA;
The 31*st December*, 1889.

HORSE AND CATTLE SHOW AT BOMBAY IN HONOUR OF THE VISIT OF H. R. H. PRINCE ALBERT VICTOR OF WALES.

The 30th December, 1889.—The following circulars, issued by the Committee of the Horse and Cattle Show to be held at Bombay in honour of the visit of H. R. H. Prince Albert Victor of Wales, are published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

GRAND FETE IN HONOUR OF THE VISIT OF H. R. H. PRINCE ALBERT VICTOR OF WALES.

Patrons.

H. E. THE GOVERNOR.
H. R. H. THE COMMANDER-IN-CHIEF.

H. E. THE NAVAL COMMANDER-IN-CHIEF.
THE HON'BLE THE CHIEF JUSTICE AND THE JUDGES OF THE HIGH COURT.

THE MUNICIPAL CORPORATION FOR THE CITY OF BOMBAY AND THE PRINCES AND CHIEFS OF WESTERN INDIA.

6, *Apollo Street, Bombay,*
December 1889.

SIR,

WE are directed by the Committee of the Fête to be held in honour of the visit of H. R. H. Prince Albert Victor of Wales to ask your assistance in providing a show of the best Horses in the whole of India on the occasion of His Royal Highness's return to Bombay in March next. It is proposed to divide the classes into the following, each class being again subdivided according to the amount of support received :—

English thorough-breds and half-breds.
Australian and other Colonials.
Arabs.
Persians and Country breds.
Harness Horses, Hunters, Chargers, Hacks } of all sorts.

The Committee hope you will accord them your support by exhibiting as many as possible of each class, and, in order that the necessary arrangements can be made, will let them know as soon as possible how many animals and of what class you will be able to send.

We have the honour to be,

SIR,

Your most obedient servants,

H. M. PHIPSON,
J. H. STEEL,
J. J. B. BENSON,
H. C. BURDER,

Joint Honorary Secretaries to the Horse and Cattle Show Committee.

On the other side will be found the names of the Committee of the Horse and Cattle Show.

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BRIG.-GENERAL W. T. BUDGEN.

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M. M. Bhownuggree, C.I.E.

Honorary Secretaries.

H. C. Burder, Esq.
J. H. Steel, Esq., A.V.D.
J. J. B. Benson, Esq.
H. M. Phipson, Esq.

TEXT-BOOKS FOR VERNACULAR MEDICAL SCHOOLS.

GENERAL DEPARTMENT.

Calcutta, the 30th December, 1889.

RESOLUTION.

READ—

A letter from the Director of Public Instruction, No. 6937, dated the 13th December, 1889, and its enclosure, regarding text-books for Vernacular Medical Schools.

Read again—

Government Resolution, dated the 13th December, 1880, on the same subject.

The Director of Public Instruction has recommended the adoption of (1) "The Practice of Medicine" in Urdu by Assistant Surgeon N. C. Chakravarti, and (2) Honorary Surgeon Rahim Khan, Khan Bahadur's "Physiology," also in Urdu, as text-books in the Patna Medical School. The Lieutenant-Governor accepts the recommendation, but at the same time reserves to Government the right to substitute hereafter for the former work a translation, should one be made and approved, of Roberts' Hand-book of Medicine.

ORDER.—Ordered, that a copy of this Resolution be forwarded to the Director of Public Instruction for information.

Ordered also, that a copy of this Resolution be published in the *Calcutta Gazette.*

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

BHADOI AND WINTER RICE CROPS IN BENGAL, 1889.

The 31st December, 1889.—The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

FORECAST OF THE OUTTURN OF THE WINTER RICE CROP IN BENGAL, 1889.

1. *Character of rainfall as affecting the crop.*—The distribution of rainfall most favourable to the winter rice crop is when premonitory showers fall in May or early in June. The rain in the end of June and in July should be heavy: then should come an interval of comparatively fair weather, in which weeding operations may be successfully prosecuted. The September rains must be heavy, shading off into fine weather with October showers. On the sufficiency of the September rains, more than of any other month, depends the character of the winter rice crop—the chief harvest in these provinces. In May and the early part of June of the present year, when the paddy lands are usually prepared and sown, there was a general deficiency of rain in Central and in many parts of Eastern Bengal, in all the districts of the Patna Division except Patna and Durbhunga, in Maldah, the Sudder subdivisions of Pooree and Balasore, and in Hazaribagh. It is reported that this deficiency retarded the cultivation of rice land, or prevented the sowing of early varieties of rice in the Cutwa and Culna subdivisions of Burdwan, Midnapore, Hooghly, the Sudder subdivision of Howrah, Baraset and Basirhat subdivisions in the 24-Pergunnahs, the Sudder, Chooadanga and Ranaghat subdivisions in Nuddea, the Sudder and Bongong subdivisions in Jessore, the Sudder and Lalbagh subdivisions in Moorshedabad, Khoolna, Dacca, the Serajgunge subdivision in Pubna, Backergunge, Tipperah and Noakhally; also in the Sudder subdivisions of Balasore and Pooree.

2. In July, August, and the beginning of September, when the seedlings are usually transplanted, and paddy is in full growth, the crop is reported to have been damaged by deficiency of rain in many parts of Central Bengal, and unfortunately many of these places were the same that had been affected by deficiency of rain at sowing time. The tracts specially affected in this way are the Culna and Cutwa subdivisions in Burdwan, the Sudder and Lalbagh subdivisions in Moorshedabad, the Sudder, Chooadanga, and Ranaghat subdivisions in Nuddea, the Bongong and Sudder subdivisions in Jessore. The crop also suffered somewhat from deficiency of rain at this period in Patna, Chumparun, South Bhagulpore, Maldah, and the Sonthal Pergunnahs; in the Sudder subdivision of Balasore, in Hazaribagh, and in the Palamow subdivision of Lohardugga. It suffered, on the other hand, from excess of rain during the same months in Rungpore, Mymensingh, Julpigoree, and North Bhagulpore.

3. The third critical period in the cultivation of paddy extends over the latter part of September and the month of October, when the crop is in flower, and requires showers to enable it to mature. In Central and Eastern Bengal the rainfall was favourable during this period. But want of rain was more or less felt in all the districts of the Patna Division, in Monghyr and South Bhagulpore, in Palamow, Govindpore (Manbhoom), and in Singbhoom. A cyclonic storm swept over the Orissa coast on the 20th November, which was followed by heavy rain in Orissa, rather heavy rain in South-West and East Bengal, and moderate but general rainfall over the remainder of the province. This unusual fall is reported to have caused damage to the rice crop in Pooree, and in the Balasore, Cuttack, and Singbhoom districts, it may be said generally that the unusual rains of November injured the early varieties of rice where they were then ripening, but either did no harm to, or benefited, the later varieties.

4. *Floods.*—Floods caused loss in the Meherpore subdivision in Nuddea, the Sudder, Lalbagh, and Jungipore subdivisions in Moorshedabad, the Gaibanda subdivision in Rungpore, Pubna, the Munshigunge and Maniekgunge subdivisions in Dacca, and parts of Furreedpore; also in the Sudder and Dinapore subdivisions in Patna, the Sudder and Hajeepore subdivisions in Mozufferpore, the Sewan subdivision in Sarun, and the Sudder subdivision of Purneah, and in Pooree. In parts of the Contai subdivision, in Midnapore, some damage was caused by defective drainage.

5. *Insects.*—Damage by insects is reported only from Backergunge.

6. *Distressed areas.*—An 8-anna crop is believed to be sufficient to enable the people to tide over a year of short harvest; the outturn of the current year, as estimated by Collectors, and the estimated outturn of last year in the tracts of seriously deficient harvest, are—

Place.	Estimated outturn this year in annas.	Outturn of last year in annas.
Burdwan—		
Cutwa	4	10
Culna	7	10
Sudder	9	10
Hooghly—		
Sudder	8	13
Nuddea—		
Sudder	8	5
Chooadanga	8	12
Ranaghat	8	6
Jessore—		
Bongong	10	8
Moorshedabad—		
Sudder	8	9
Lalbagh	10	10
Balasore—		
Sudder	9½	9
Lohardugga—		
Pulamow	10	10

7. It will be observed that the areas of bad harvest in Central Bengal (Burdwan, Hooghly, Nuddea, Jessore, 24-Pergunnahs, and Moorshedabad) are all situated in a block, in close proximity to one another. In some of them the harvest was short last year, and in none was it what might be called a good one, so that there cannot be large stores of grain in stock; but all these areas enjoy special facilities for importation, and being close to Calcutta and other manufacturing centres, the inhabitants of them are comparatively prosperous. There is reason to believe that the outturn in Cutwa and Culna has been under-estimated. Though there is cause for exercise of vigilance on the part of the local authorities in the subdivisions named above, it may yet be hoped that there will be no actual distress.

8. In most of the chief rice-growing districts an average, and in some more than an average, crop will be reaped. Looking to the vast extent of country under rice in Bengal, aggregating over fifty-two thousand square miles, and to the widely different conditions of soil, some highly and some lowly situated; and having regard to the varying conditions of climate which prevail in different parts of these provinces, it must always be expected that the crop will suffer in some particular tracts, either from deficiency of rainfall on the one hand, or from excess of rain and floods on the other. The present year is not exceptional in this respect. For the province as a whole, it may be said that the rice crop is far better than that of last year, and that on the whole an average, or nearly an average, crop may be expected.

9. In the statements annexed the estimated outturn for each district is given, and a detailed examination of the statistics of rainfall in each district is made with special reference to the reported estimated outturn. These estimates have been prepared by Collectors of districts after consulting zemindars, European residents, and other local reporters. They have not, however, it is necessary to repeat, any pretensions to statistical accuracy.

10. Following the nomenclature prescribed by the Government of India, 20 annas is taken to represent a bumper crop, 16 annas an average, and 12 annas three-fourths of an average crop.

M. FINUCANE,
Director of the Dept. of Land Records and Agriculture, Bengal.

CALCUTTA,
The 24th December 1889.

STATEMENT I.—*Estimated outturn of winter Rice crop now being reaped.*

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under winter rice, aman or hymanti, in square miles.	Estimated outturn of this year's winter rice crop expressed in annas.*	Outturn of winter rice of previous year expressed in annas.	REMARKS BY THE AGRICULTURAL DEPARTMENT, BENGAL.
Burdwan	Sudder ...	1,242	993	486	9 annas	10 annas	
	Raneegunge	671	398	352	13 „	10 „	
	Cutwa	352	265	88	4 „	10 „	*Burdwan.*—In the Sudder sub-division the rainfall was sufficient in May, June, and July: it was very deficient in August (the actual rainfall being only 5·09 against the normal fall of 12·38 inches), and this deficiency largely interfered with transplanting operations. In September the rainfall was sufficient, and the ryots must have tried to complete the transplanting of lands that could not be planted in the preceding month; but unfortunately there followed dry weather in October with a fall of only 1·44 inches against the normal of 4·40 inches. The early varieties of paddy which ripen in November were injuriously affected by this drought, and still more so by the unusually plentiful showers which fell in the first and third weeks of November. The late varieties which mature in December must have been affected by insufficiency of rain in October, but the late rains of November instead of being injurious to them, would appear to have been beneficial, and partly counteracted the evil effects of short rain in October. The Collector's return of a 9-anna crop for the Sudder sub-division appears to be justified by a consideration of the statistics of rainfall.
	Culna	432	330	176	7 „	10 „	In the Cutwa sub-division the rainfall was very deficient in May and in the first-half of June, but was normal in the last half of June and in July. It is probable that want of early rain interfered with the preparation of land for broadcasted paddy. The transplanting season (August and September) was characterized by short rains (13·9 inches against the normal fall of 20·89 inches). Thus the season was unfavourable to both broadcasted and transplanted paddy. In October the rainfall was also slightly deficient (2·61 inches against 3·85 inches). The unusually heavy rains of November undoubtedly injured the early varieties which were then ready for the sickle, while they may have benefited the later varieties. The Collector's estimate of 4 annas appears to be unduly low. In the adjoining districts of Nuddea and Moorshedabad the estimated outturn is nowhere below 8 annas. It is therefore probable that in Cutwa the outturn has been somewhat under-estimated. The actual outturn will probably be 6 to 8 annas. There is cause for exercise of vigilance on part of the authorities in this and the Culna sub-division.
							In the Culna sub-division the character of the rainfall was analogous to that in the Sudder sub-division, with this exception that it was more deficient in July and August at the time of transplanting in the former sub division than in the latter. A low outturn of 7 annas for Culna is therefore reasonable
							In the Raneegunge sub-division the character of the rainfall has been uniformly favorable excepting in August, which had a slightly deficient rainfall. In October the fall was deficient, but the deficiency can not have done much harm, as there was sufficient rain fall in September and plentiful rain fell early in November. A full average crop is likely to be reaped. The Collector's return is 13 annas. The recent rains in November do not appear to have affected the paddy crop, although abnormally heavy (9·53 inches against 0·13 inch). Taking the Burdwan districts as a whole, it would appear that the rainfall has been more or less unfavourable to transplanted paddy except in the Raneegunge sub division, and also to broadcasted paddy in the Cutwa sub-division. The late rains of November appear to have slightly improved the prospects of the crop. Not more than a 10-anna crop, as the Collector estimates, can be reasonably expected for whole district. The area under rice in Culna and Cutwa, which appears to be seriously affected, bears a small proportion to the total rice area of the district (263 miles against 1,101 miles).
	District Total ...	2,697	2,016	1,101	8 to 10 annas	10 annas	
Bankoora	Sudder	1,921	670	570	12 annas	10 annas	Deficiency of rainfall in the month of Sravan (July-August) or at the time of transplantation has affected the outturn this year, whereas the short outturn of the last year was due to scanty rainfall in September and October 1898.
	Bishenpore	700	350	290	14 „	8 „	
	District Total ...	2,621	1,020	860	13 annas	9 annas ...	

* 20 annas represents a bumper crop, 16 annas an average crop, and 12 annas a three-fourths of an average crop.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under winter rice, aman or hymanti, in square miles.	Estimated outturn of this year's winter rice crop expressed in annas.*	Outturn of winter rice of previous year expressed in annas.	REMARKS BY THE AGRICULTURAL DEPARTMENT, BENGAL.
Beerbhoom	Sudder	1,108	777	604	..	16 annas	The rainfall was generally favourable to the rice crop in this district. Though somewhat deficient in August (8·96 as against normal, 13·77), it was yet sufficient for the transplanting operations. In October the rainfall in the Rampore Hât subdivision was less than the norma, being only 0·64 against 3·69; but as there was copious rain in September and again in November, the crop did not suffer. An excellent outturn may therefore be expected. Taking 16 annas to represent an average crop, the outturn of this year is estimated at 18 annas.
	Rampore Hât	648	458	324	..	10 ,, ...	
	District Total ..	1,756	1,235	928	18 annas ..	10 annas	
Midnapore	Sudder	3,252	1,767	1,242	14 annas	13 annas	*Midnapore.*—In May the rainfall was somewhat deficient (2·45 inches against 5·05 inches); but since then the season has been generally favourable, the fall of each month being quite sufficient, and closely agreeing with the normal. In August the fall was somewhat below the normal, but yet sufficient. The comparatively short outturn is attributed in the Sudder, Ghatal, and Tumlook sub-divisions to short rains in May and the early part of June. The Collector estimates the outturn at 15 annas. A more than average crop is expected in the Contai sub-division, where owing to floods the crop was very deficient during the past three years.
	Contai	881	710	641	17 ,, ...	8 ,, ...	
	Ghattal	396	228	206	14 ,, ...	8 ,, ...	
	Tumlook	620	465	433	14 ,, ...	10 , ...	
	District Total ...	5,119	3,170	2,522	About 15 annas ...	About 10 annas ...	
Hooghly	Sudder	442	276¼	221	8 annas	13 annas	*Hooghly.*—The rainfall was much below the average in May and early June, but was favourable at other periods. The character of the rainfall appears to have been the same in all three sub-divisions. The Collector estimates the outturn in the Sudder sub-division at 8 annas, while he gives 12 and 14 annas in the Serampore and Jehanabad sub-divisions respectively, and the district outturn he estimates at 10 annas of an average crop. The reason of the difference in the estimated outturns of the various sub-divisions is not apparent. The outturn of the whole district is probably under-estimated.
	Serampore	343	250	157	12 ,, ...	10 to 12 annas... . .	
	Jehanabad	438	261	181	14 ,, ...	12 annas	
	Howrah	171	102	88	14 ,, ...	9 ,, ...	
	Ulluberiah	303	200	150	14 ,, ...	8 ,, ...	
	District Total ...	1,697	1,090¼	747	10 annas	10¼ annas	
24-Pergunnahs .. .	Sudder and amalgamated part of Suburbs, including late Barripore subdivision.	1,070	717	585	15 annas	8 annas	The rainfall has been generally favourable. The crop is reported to have been slightly damaged by the late rain in November.
	Diamond Harbour... ...	513	453	443	15 ,, ...	6 ,, ...	
	Barasat	392	243	182	15 ,, ...	12 ,, ...	
	Basirhat	30	439	309	15 ,, ...	12 ,, ...	
	Barrackpore...	42	12	6	15 ,, ...	9 ,, ...	
	Dum-Dum	56	31	27	15 ,, ...	8 ,, ...	
	District Total ...	2,003	1,895	1,552	15 annas	9 annas	
Khoolna	Sudder	1573·40	389	317	.....		
	Satkhira	1272·89	449	300	.....		
	Bazirhat	1506·63	520	380	.....	10 annas	Rainfall was deficient in May, being ·90 inch against normal 6·61. This deficiency to some extent interfered with the preliminary operations of cultivation.
	Area of boundary khals and rivers of Sunderbuns in this district.	496	...	...	.....		
	District Total ...	†4849·91	1,358	917	13 annas	10 annas	

Nuddea	Sudder	701	494	150	8 annas	8 annas	
	Chuadanga	487	272	60	8 ,,	12 ,,	
	Kushtea	558	418	104	12 ,,	7 ,,	
	Meherpore	627	500	63	12 ,,	About 12 annas	
	Ranaghat	427	256	64	8 ,,	6 annas	
	District Total	2,750	1,930	440	About 10 annas	About 10 annas	
Jessore	Sudder	899	475	260	16 annas	16 annas	
	Bongong	649	389	259	10 ,,	8 ,,	
	Narail	487	165	273·9	15 ,,	15 ,,	
	Magoora	425	268	128	16 ,,	9 ,,	
	Jhenidah	475	317	100	16 ,,	12 ,,	
	District Total	2,725	1,614	1020 9	14 annas	12 annas	
Moorshedabad	Sudder	767	570	84	8 annas	10 annas	
	Lalbag	372	223	204	10 ,,	10 ,,	
	Jangipore	506	[illegible]	63	18 ,,	12 ,,	
	Kandi	512	466	107	18 ,,	12 ,,	
	District Total	2,159	1,652	658	14 annas	11 annas	

Nuddea.—The Collector returns an 8-anna crop for the Sudder, Chuadanga, and Ranaghat sub-divisions, and a 12-anna crop for the Meherpore and Kushtea sub-divisions. The conditions of rainfall in the Sudder and Chuadanga sub-divisions were the same as in the Cutwa sub-division of Moorshedabad, namely, great deficiency in May and early June at the time of preparing the rice lands, and again in August and September at the time of transplantation. In May there was only a fall of 1·51 inches against 6 26 inches in the Sudder, and 1·95 inches against 7 56 inches in the Chuadanga sub-division; and in August and September there were 13 18 inches against 21·39 inches in the former, and July and August, 15 21 inches against 22 77 inches in the latter The deficiency of rainfall at these critical periods must have seriously affected the crop. An estimate of an 8 anna crop in the Sudder sub-division seems to be reasonable, but a slightly higher outturn is likely to be obtained in the Chuadanga sub-division.

The statistics of rain fall recorded at Ranaghat Station show some deficiency in May; but since then, there does not appear to have been want of rain. In June, September, and October the rainfall was in excess of the normal The Collector remarks that the crop was injuriously affected by want of rain at sowing time, and also at the time of transplantation: the rainfall statistics do not bear out the latter statement If the distribution of rainfall over the sub-division is to be judged by the fall recorded at Ranaghat, the Collector's estimate of 8 annas would appear below the mark, but looking to the reported prospects of the rice crop in the neighbouring sub-divisions of Culna, the Sudder sub-divisions of Nuddea and Chuadanga, a better crop than 8 annas in the Ranaghat sub-division cannot, probably, be looked for.

The distribution of rainfall in the remaining two sub-divisions—Meherpore and Kushtea—was favourable to the rice crop except in May when the fall was short of the normal, but the deficiency was made up by ample rain in June. In Kushtea there had been deficiency of rain in October, which was compensated for by the showers which fell in the first week of November. The Collector's estimate of 12 annas is fully borne out by the rainfall statistics. In the Meherpore sub-division a full average crop, or at any rate a 14-anna crop, could have been reaped but for damage caused by floods. A ten-anna crop for the Nuddea district as a whole may be accepted. The Collector in a recent telegram estimates the outturn for the whole district at 8 annas, reducing the previous estimate by two annas.

The conditions of rainfall in the Bongong sub-division were unfavourable to the rice crop. The fall in May was very deficient, being only 1·23 inches against a normal fall of 5·42 inches. It was again very deficient in August and September, being only 10 14 inches against a normall fall of 21 31 inches. Under these circumstances more than a 10-anna crop as estimated by the district officer cannot be looked for

In the Sudder sub-division the conditions of rainfall were similar to those obtaining in Bongong, but somewhat more favourable. In May there were only 2 14 inches out of a normal fall of 7·43 inches, and in August only 7 17 against 11 76 inches. The Collector's estimate of a 16-anna crop, therefore, seems to be much above the mark: 12-annas seems to be a more reasonable estimate.

In the remaining sub-divisions of Narail, Jhenidah, and Magoora, the season proved favourable on the whole, and a full average crop may be expected.

The Collector estimates the rice crop in the Sudder and Lalbag sub-divisions at 8 annas and 10 annas respectively. He attributes the short crop to want of rain at the ploughing and sowing time (*i.e* May and June), and to subsequent damage by floods There can be no doubt that disastrous floods caused damage in many parts of these sub-divisions; but the statistics of rainfall do not bear out the statement that there was deficient rain in May and June. At Berhampore 7·76 inches of rain fell in May against the average fall of 4 95 inches, and 10 12 inches fell in June against the average of 9 29 inches. At Lalbagh 5·39 inches in May and 5·78 inches in June were recorded against 4 84 inches and 8 18 inches respectively The rainfall recorded at Lalbagh in June fell somewhat short of the average, but with the plentiful rain of the preceding month it should have been sufficient for the purpose of cultivation. While the rainfall of May and June appears to have been quite sufficient, the rainfall in August at the time of transplanting the paddy seedlings, and in October, when the paddy was in flower and was in need of moisture, was insufficient in both the Sudder and Lalbagh sub-divisions, as shown by the following figures:—

	August.		October.	
	Inches.	Inches.	Inches.	Inches.
Lalbagh	7 36 against	12 71	6 67 against	10·91
Sudder	2·43 against	4 26	1·31 against	5 20

It is not stated over what area the damage was caused by floods.

In the remaining two sub-divisions, the Collector estimates the yield at 18 annas, which may be accepted, seeing that the rainfall was all that could be desired.

The first estimate of the rice-crop for the district as a whole was 13½ annas, but this has been recently reduced to 12 annas This may be due to losses caused by the abnormal rains of November, but is not so stated.

* 20 annas represents a bumper crop, 16 annas an average crop, and 12 annas a three fourths of an average crop.

This includes Sunderbans, 2772 91 square miles, appertaining to this district.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under winter rice, aman or hymanti- in square miles.	Estimated outturn of this year's winter rice crop expressed in annas.	Outturn of winter rice of previous year expressed in annas.	REMARKS BY THE AGRICULTURAL DEPARTMENT, BENGAL.
Dinagepore	Sudder	3,251	1,950	1,453	16 annas	6 annas	The rainfall appears to have been wholly favourable except in May when it was deficient. A full average crop may be expected in Dinagepore, and more than an average crop in Rajshahye.
	Thakurgaon	867	650	506	16 ,, ...	6 ,, .. .	
	District Total ...	4,118	2,600	1,959	16 annas	6 annas .. .	
Rajshahye	Sudder	944	585	336	17 annas	14 annas	
	Nattore	817	591	578	14 ,, ...	14 ,, ...	
	Nowgong	603	500	300	20 ,, ...	12 ,, ...	
	District Total ...	2,364	1,676	1,214	17 annas	13 annas	
Rungpore	Sudder	1,151	900	675	16 annas	10 annas	The distribution of rainfall was on the whole favourable. The rainfall in May and October was short of the normal of this district, but was yet sufficient. Full average crops are expected in the Sudder and Kurigram sub-divisions. In the Nilphamari sub-division the crop was somewhat damaged by excessive rainfall in June, July, and August, and in the Gaibanda sub-division the overflowing of the Bramhaputra caused some loss to rice growing on char lands.
	Nilphamari	638	480	360	13 ,, ...	12 ,, ...	
	Kurigram	937	700	500	16 ,, ...	14 ,, ...	
	Gaibanda	760	570	440	14 ,, ...	10 ,, ...	
	District Total ...	3,486	2,650	1,975	16 annas	About 11 annas ..	
Bogra	Bogra	1,452	913	500	17 annas	10 annas	The rainfall was sufficient and timely. More than an average crop is expected.
Pubna	Sudder	890	667	356	13 annas	12 annas	In this district the distribution of rainfall was favourable, and full average crops might have been reaped but for loss caused by the overflowing of the Ganges (Padma). As it is, a 13-anna crop is expected.
	Serajgunge	957	718	218	14 ,, ...	12 ,, ...	
	District Total ...	1,847	1,385	574	13 annas	12 annas .	
Darjeeling	Kurseong	185	11	.....	.....	12 annas	The rainfall was favourable, except that it was slightly deficient in May and in October. The district officer estimates 14½ annas for the whole district.
	Siliguree	253	174	94	15 annas	10 ,, ...	
	Kalimpong	726	89	16	14 ,, ...	14 ,, ...	
	Darjeeling						
	District Total	1,164	275	110	14½ annas . ..	12 annas	
Julpigoree	Bykantpore Pergunnah ...	447	236	160	12 annas	10 annas	The Deputy Commissioner at first estimated the outturn at 13 annas for the district as a whole, but in reply to a recent telegram has increased the estimate to 14 annas. This improvement is probably due to the rain which fell in November. The rainfall was in excess of the normal in June and July. This, the Deputy Commissioner reports, did good to the paddy crop in two tehsil circles, while it is reported to have produced the opposite result in the Mynagori circle.
	Boda Pergunnah	402·72	295	150	12 ,, ...	8 ,, ...	
	Patgram ,, ...	86·89	75	45	12 ,, ...	8 ,, ...	
	Mynagori Tehsil	524	203	123	10 ,, ...	11 ,, ...	
	Fallacota ,, ...	742	320	240	12 ,, ...	12 ,, ...	
	Alipore ,, ...	517	200	170	12 ,, ...	6 ,, ...	
	Bhulka Sub-tehsil	133	80	45	16 ,, ...	12 ,, ...	
	District Total ...	2851·60	1,441	903	About 14 annas	9½ annas	

Dacca	Sudder	1,366	673	422	14 annas	16 annas	The distribution of rainfall was favourable to the winter rice crop throughout the district. But the Collector's estimate is 3 annas below the average. Among the causes for the deficient outturn are given want of rain at the time of sowing. This is not borne out by the statistics of rainfall. In May and June the mean rainfall of the district was 8·16 inches and 21·53 inches against the average of 8·70 inches and 12·91 inches respectively. There was, however, a deficient fall in April (2·48 inches against 4·50 inches), that may have interfered with the preparation and sowing of the low lands which require to be sown very early in the season. Early rise of the rivers and high floods to some extent injured the crop; the abnormal rains of November also caused damage to the extent of one-anna in each sub-division.
	Manickgunge	489	366	320	14 ,, ...	14 ,, ...	
	Munshiganze ...	401	200	80	12 ,, ...	16 ,, ...	
	Naraingunge	641	350	90	16 ,, ...	12 ,, ...	
	District Total	2,797	1,549	912	13 to 14 annas	14½ annas.	
Furreedpore	Sudder Sub-division ...	860	602	451½	14 annas	14 annas	The Collector's first estimate was between 13 and 14 annas for the whole district; his later return gives a 12-anna crop. In submitting his previous estimate, the Collector remarked that the sudden rise of water after sowing caused some damage, which was, however, more than compensated for by the late rains in the beginning of November. Assuming this to have been the case, it is not yet clear why the rice-crop should fall below the average. There was a slight deficiency of rainfall in April and May as compared with the normal falls of those months, which may have caused some injury. The Collector's estimate is probably under the mark.
	Madaripur	979	652	440	14 ,, ...	14 ,,	
	Goalundo	428	321	214	12 ,, ...	12 ,,	
	District Total ..	2,267	1,575	1,105½	More than 13 annas ..	More than 13 annas.	
Backergunge	Barisal	1,111	630	450	16 annas	15 annas	The rainfall was sufficient and seasonable excepting in May, when it was short of the normal (3·8 inches against 7·8 inches). This deficiency and attacks of insects caused slight injury. The Collector's first return was 15½ annas for the whole district; his present return is 16 annas. An average crop may be expected.
	Perozepur	693	500	375	14 ,, ...	12 ,,	
	Patuakhali	1,231	510	380	16 ,, ...	12 ,,	
	Bhola	615	400	250	16 ,, ...	18 ,,	
	District Total ..	3,649	2,450	1,420	About 16 annas ...	About 12 annas.	
Mymensingh ...	Sudder	1,849	1,061	575	18 annas	16 annas	Throughout the whole district there was considerable excess of rainfall over the normal in every month between June and October. The excess was specially marked in the Netrokona and the Sudder sub-divisions. To this the Collector attributes the short outturn (12 annas) in the Netrokona sub-division. In the rest of the district the excess rainfall is not stated to have caused any damage, but considering that rain fell at Mymensingh on 28 days out of 30 in June and on 27 days out of 31 in July, it appears probable that excessive rainfall did some damage to the crop. The Collector's first estimate was 15 annas for the whole district; his subsequent estimate is a 16-anna crop. On the whole an average crop may be expected.
	Atta	1,061	730	351	16 ,, ...	16 ,,	
	Jamalpore	1,244	820	415	14 ,, ...	12 ,,	
	Netrokona	1,389	694	500	12 ,, ...	16 ,,	
	Kissoregunge	744	350	175	14 ,, ...	12 ,,	
	District Total ...	6,287	3,715	1,605	16 annas ...	14 annas.	
Tipperah	Brahmanberiah	769	553·64	359·892	19 annas	14 annas	The rainfall was seasonable and sufficient, although somewhat short of the normal in May, July and August. The Collector at first estimated the outturn at 18 annas, but owing to the abnormal rains of the latter end of November has reduced his estimate to 16 annas. More than an average crop may be expected.
	Chandpore	580	415	300	18 ,, ...		
	Commillah or Sudder Sub-division.	1,142	556·5	599·55	16 ,, ...		
	District Total ...	2,491	1525·18	1259·442	18 annas	14 annas.	
Noakholly	Sudder	1,293	1,000	800	....	15 annas	The rainfall closely agreed with the normal in every month excepting May, when it was deficient. To this deficiency the Collector at first attributed loss to the extent of 3 annas, but he has now raised his estimate to 18 annas. A crop above the average may be expected.
	Fenny	343	280	216	.....		
	District Total ...	1,641	1,280	1,016	18 annas	15 annas.	
Chittagong	Sudder	1,630	611·25	352	16 annas	13 annas	The rainfall was good and timely, and a full average crop is expected.
	Cox's Bazar	937	633·68	466	16 ,, ...		
	District Total ...	2,567	1244·93	848	16 annas	13 annas.	
Chittagong Hill Tracts	Sudder	3583·5	44·95	7·50	12 annas	8 annas	At first the Deputy Commissioner estimated the outturn at 16 annas, but owing to damage caused by the rains of November has reduced his estimate to 12 annas.
	Sungoo	1835·5	22·76	4	12 ,, ...		
	District Total ...	5,419	67·71	11·50	12 annas.	8 annas.	

* 20 annas represents a bumper crop, 16 annas an average crop, and 12 annas a three-fourths of an average crop.

1	2	3	4	5	6	7	8
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under winter rice, aman or hymanti, in square miles.	Estimated outturn of this year's winter rice crop expressed in annas.*	Outturn of winter rice of previous year expressed in annas.	Remarks by the Agricultural Department, Bengal.
Patna	Sudder	617	457	216	14 annas	10 annas	The rainfall in the Sudder sub-division was seasonable and sufficient. In July there was a slight deficiency (8·84 inches against a normal 11·59 inches), but the fall still sufficient for rice cultivation. A bumper crop would be reaped but for the fact that rain withheld altogether from the 24th of September to the 24th of October, *i.e.*, during the *katiya*, when it was urgently wanted. A 15-anna crop is a reasonable estimate.
	Dinapore	143	116	86	11 ,, ...	5½ ,, ...	
	Barh	326	225	90	13 ,, ...	3 ,, ...	
	Behar	793	575	402	11 ,, ...	6 ,, ...	In the Dinapore sub-division some damage was done by floods. The rainfall appears to have been slightly deficient in May—·74 inches against 1·61 inches. This may have affected the sowings to a slight extent. There was no rain during the *katiya* which must have further affected the outturn, but the Collector does not notice this fact. Taking the above facts into consideration, viz., damage by flood, slight deficiency of rainfall in May, and drought in October, a 12-anna crop, as estimated by the Collector, may be accepted.
	District Total ..	2,079	1,373	794	12 annas	6 annas	In the Barh sub-division the conditions of rainfall were not altogether favourable. In August and September the fall was much below the average, only 11·36 inches against an average of 17·68 inches. In October want of rain was beginning to be felt, but timely showers fell on the 8th and 11th of the month. The Collector's estimate for this sub-division is a 13-anna crop.
							In the Behar sub-division the season was not altogether favourable; the fall was slightly deficient in May, and also in September and October. During the two latter months, 5·48 inches and 6·36 inches were recorded at Behar against the corresponding averages of 6·38 and 3·96 inches respectively. The drought which occurred during the *katiya* was, however, partially relieved by rain on the 11th of October. The conditions of rainfall, so far as they can be judged from the meteorological returns, were only slightly, if at all, more unfavourable in the Behar than in the Barh sub-division. The Collector's estimate is, however, 11 annas for the Behar sub-division, which is 2 annas less than in the Barh sub-division.
							The Collector's first estimate for the whole district of Patna was a 13-anna crop; his present return is 12 annas, which may be accepted.
Gya	Sudder	1,539	1,434	968	12 annas	6 annas	Taking the district as a whole, the rainfall was deficient in May (·30 inch against 1·74 inches). This deficiency affected the rice crop to a certain extent. Again there was no rain during the *katiya*. Under the circumstances, a 12-anna crop, as estimated by the Collector, may be expected.
	Aurungabad	1,246	747	336	12 ,, ...	8 ,,	
	Nowada	1,020	765	573	14 ,, ...	7 ,,	
	Jehanabad	607	503	325	12 ,, ...	4 ,,	
	District Total ...	4,712	3,449	2,075	12 to 13 annas .. .	6 annas .. .	
Shahabad	Arrah	915	778	389·25	14 annas	12 annas	The rainfall was deficient throughout the district in May and the early part of June, but the want of rain at sowing time is noticed by the Collector only in respect of Arrah and Bhabua sub-divisions. Again, in the latter part of September and in October there was no rain in most parts of the district. About an inch of rain was, however, recorded at Arrah, and a little less than half an inch at Buxar. This probably prevented any loss of crop in the Arrah sub-division. No rain fell at Bhabua till the 22nd October. The Collector's estimate of a 14-anna crop for the entire district may be accepted.
	Buxar	656	563	282	14 ,, ...	12 ,, ...	
	Bhabua	1,301	976	488	14 ,, ...	10 ,, ...	
	Sasseram	1,493	667	374	14 ,, ...	10 ,, ...	
	District Total ...	4,365	3,004	1512·88	14 annas	11 annas	The rains which fell in the 4th week of October and early in November appear to have benefited the crop. In the middle of November, the rainfall exceeded the average at many stations, but was not so heavy as to injure the crop. It is probable that the late varieties of rice which were yet green and fresh were benefited.
Durbhunga	Sudder	1,222	929	585	17 annas	6 annas	A 17-anna crop is expected in this district. The season was, as the Collector observes, very favourable to the rice crop excepting during the *katiya*, when rain was wanting. Some rain fell, however, in the Sudder, Tajpore, and probably in the Madhubani sub-divisions early in October. The abnormal rains which fell in the middle of November over Orissa and Central Bengal were practically not felt in North Behar.
	Tajpore	764	649	211	16 ,, ..	10 ,, ...	
	Madhubani	1,349	1,025	719	18 ,, ...	6 ,, ...	
	District Total ...	3,335	2,603	1,515	17 annas	7 annas.	

Mozufferpur	Mozufferpur	1,216	957·08	602·32	12 annas	8 annas	The rainfall in May was deficient (·61 inch against 2·51 inches). The Collector does not notice whether this affected the rice crop in any way. Subsequently the rainfall was sufficient, and even in excess of the normal till the third week of September, since which time there was no rain till the middle of November. The absence of rain during the *hatiya* has affected the crop throughout the district. The damage was further aggravated by floods in the Sudder and Hajeepur sub-divisions. Leaving out of consideration the deficiency in May, which cannot do much harm if closely followed by sufficient rain in June, the rainfall was wholly favourable, and a full average, if not a bumper crop would have been reaped but for the failure of *hatiya* rain. The Collector's estimate of the crop at 14 annas appears reasonable. There was very little rain in the middle of November (·11 inch), and it cannot have affected the crop in any extent.
	Hajeepur	771	529·6	204·31	14 ,, ...	8 ,, ...	
	Sitamarhi	1,014	770·64	481	16 ,, ...	4 ,, ...	
	District Total ..	3,003	2·57·27	1288·13	14 annas	About 7 annas	
Sarun ..	Sudder	995	849	217	16 annas	8 annas .. .	The conditions of rainfall in Sarun were very similar to those in Mozufferpur. The rain which fell in the third week of November appears to have done good to the rice crop, as the Collector's present estimate is a full 16-anna crop.
	Sewan	853	693	255	16 ,, ...	8 ,, ...	
	Gopalgunge	771	563	239	16 ,, ...	13 ,, ...	
	District Total ...	2,622	2,105	711	16 annas	10 annas	
Chumparun	Motihari	1,518	1,022	359	16 annas	6 annas ...	The conditions of rainfall in Chumparun were similar to those in the two preceding districts. In August, however, the fall was short of the average (6·27 inches against 12 18 inches). This would appear to have interfered with transplanting operations, but no mention of this is made in the reports. Want of rain in October was greatly felt. The Collector's estimate of a 16-anna crop seems to be a little above the mark.
	Bettiah	2,013	1,200	700	16 ,, ...	7 ,, ..	
	District Total ..	3,531	2,222	1,059	16 annas	6½ annas	
Monghyr	Sudder	1,559	1,091	436	12 annas .. .	8 annas	The rainfall in this district was very favourable except at the close of the season. In the last week of September and the whole of October, there was no rain in the district with the exception of Begusarai, where a slight fall (·45 inch) on the 11th and 12th of October must have done good to the crop. The Collector estimates the outturn at 16 annas in this sub division, and 12 annas and 14 annas respectively in the Sudder and Jamui sub-divisions, the average for the whole district being 14 annas. The fall in November was very slight—only ·12 inch.
	Begusarai	769	577	23	16 ,, ...	8 ,, ...1	
	Jamui	1,593	1,062	700	14 ,, ...	9 ,, ...	
	District Total ..	3,921	2,730	1,1·9	14 annas ...	About 8 annas	
Bhagulpore	Sudder	936	655	550	11 annas	7 annas	In South Bhagulpore, including the Sudder and Banka sub-divisions, the Collector's estimate is an 11-anna crop. The short harvest is attributed by him to deficiency of rainfall at the time of transplanting. There was a deficient fall in August (6·67 inches against 12·23 inches), which must have affected the crop to a certain extent; but as it was preceded by good rain in July and followed by a copious fall in excess of the normal in September, the loss on this account could not have been as much as 5 annas. There was general absence of rain in the latter part of September and in October, and to this cause the short outturn is mainly due.
	Banka	1,185	888	687	11 ,, ...	7 ,, ...	
	Madehpura	872	566	339	More than 16 annas ..	8 ,, ...	
	Soopole	1,275	856	478	14 annas ...	6 ,, .. .	
	District Total ..	4,268	3,165	2,054	More than 13 annas ..	7 annas	In North Bhagulpore, including the Madehpura and Soopole sub-divisions, the fall was sufficient in May but considerably in excess of the normal in June, July, August and September. To this excess the Collector attributes some loss in the Soopole sub-division. In October the fall was sufficient in the Madehpura sub-division, but very deficient in Soopole. A 16-anna crop, as estimated by the Collector may be reaped in Madehpura, but it may be doubted whether a 14-anna crop will be reaped in Soopole.
Purneah	Sudder	2,572	1,929	643	12 annas	10 annas	The rainfall was favourable at every stage of paddy cultivation. The general absence of rain during the *hatiya*, complained of from most districts of Behar, was not felt in Purneah In the Sudder sub-division loss to the extent of 4 annas is said to have been done by floods; on the other hand, early floods did good to the crop in the Arrareah sub-division. No rain fell in November in this district. The outturn for the whole district is estimated at 15 annas.
	Kishengunge	1,340	1,005	502	16 ,, ...	8 ,, ...	
	Arrariah	1,044	700	500	18 ,, ...	8 ,, ...	
	District Total	4,956	3,634	1,615	15 annas	9 annas	
Maldah	Whole district	1,902	1,268	450	16 annas	16 annas	The rainfall appears to have been very deficient from May to August, only ·70 inch being recorded in May against a normal 4·5 inches, and only 12·7 inches in July and August against 23·53 inches. Although the fall in September was in excess of the normal, the deficiency in the previous months must have seriously affected the crop. The Collector, however, makes no remarks on this point, and estimates the outturn at 16 annas.

* 20 annas represents a bumper crop, 16 annas an average crop, and 12 annas a three-fourths of an average crop.

1	2	3	4	5	6	7	8
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under winter rice, aman or hymanti in square miles.	Estimated outturn of this year's winter rice crop expressed in annas.*	Outturn of winter rice of previous year expressed in annas.	Remarks by the Agricultural Department, Bengal.
Southal Pergunnahs ...	Dumka	1,429	708	354	12 annas	.....	The rainfall was sufficient and seasonable throughout. In August there was a slight deficiency (6·41 inches against 12·79 inches), but in July and September there was excess of rain. The Deputy Commissioner's remark that the rice crop has suffered from deficiency of rain after transplantation is not borne out by the records of rainfall. In October the rainfall closely agreed with the normal. The Collector estimates the yield at 14 to 15 annas.
	Deoghur	950	259	108	16 ,, ...	.....	
	Godda	966	676	381	13 ,, ...	.....	
	Rajmehal	740	555	409	16 ,, ...	.....	
	Jamtara	696	348	190	13 ,, ...	.....	
	Pakour	633	511	410	16 ,, ...	.....	
	District Total ...	5,464	3,057	1,852	14¼ annas	12 annas ...	
Cuttack ...	Sudder	969	513	419	16 annas	8 annas	The rainfall appears to have been very seasonable. In September the fall was apparently deficient (5·09 inches against 9·53 inches), but the deficiency was in the latter half of the month when rain was not required. The rainfall between the 14th and 21st November was abnormally heavy, and a storm occurred on the 28th, which did some harm to guru rice, but the injury was not serious. In Angul, the Superintendent of the Tributary Mehals estimates the outturn at 12 annas.
	Banki	116	52	28	16 ,, ...	8 ,, ...	
	Kendrapara	1,424	801	640	16 ,, ...	10 ,, ...	
	Jajpur	1,104	500	450	16 ,, ...	7 ,, ...	
	Angul	... ..	... ..	... ..	.. ...	.....	
	District Total ...	3,633	1,886	1,537	16 annas	About 8 annas	
Balasore	Sudder	1,158	670	589	8½ annas	9 annas	The two sub-divisions of this district have differed greatly in respect of rainfall. In the Bhudruck sub-division, the season was altogether favourable, and a full average crop would be reaped were it not for the occurrence of a cyclone on November 28th. In the Sudder sub-division, on the other hand, the fall, as the Collector remarks, was singularly deficient in the period from June to September, as the following figures still show :—
	Bhudruck	908	720	580	13½ ,, ...	10 ,, ...	
	District Total ...	2,066	1,390	1,169	About 11 annas ...	About 10 annas. ...	Under the circumstances a better crop than 11 annas, as estimated by the Collector, cannot be hoped for. During the November cyclone, 4·55 inches of rain fell in three days. This damaged the crop to the extent of 2 to 3 annas; so that in this sub-division it may be apprehended there may be tightness. Last year also the crop was a short one (9 annas).
Pooree	Sudder	1,530	720·380	506·630	14 annas ...	12 annas	The rainfall was very similar to that of Cuttack. In May the fall was somewhat deficient and late, but the Collector remarks the deficiency was made up by good rainfall afterwards. The excess of rain recorded in October (12·66 against 7·42 inches) affected the early varieties of paddy to some extent as it did in Cuttack.
	Khoorda	990·202	414·560	250 638	14 ,, ...	8 ,, ...	The Collector's first estimate was 16 annas, but the heavy cyclonic showers which fell in November seriously changed the aspect of the harvest. 14·94 inches of rain fell in this month against an average fall of 1·69 inches. The Collector reports that the loss from the heavy rains of November and from submersion of land is 2 annas. If this be correct, the outturn will be 14 annas.
	District Total ...	2520·202	1134·940	757·268	14 annas ...	10 annas.	

	Actual fall. Inches.	Normal fall. Inches.
June	4·35	8·71
July	4·48	13·93
August	11·51	12·78
September	4·37	12·63
	24·71	48 05

Hazaribagh	Giridih	2,446	1,236	675	18 annas	12 annas	A full crop (16 annas) is expected. The rainfall was somewhat deficient in May, otherwise it was uniformly favourable.
	Head-quarters	4,575	2,593	1,711	14 „	12 „	
	District Total ...	7,021	3,873	2,386	16 annas	12 annas.	
Lohardugga	Sudder	7,784	1,673	1,296	14 to 16 annas ...	7½ annas	In the head-quarters' sub-division the estimated outturn is 14 to 16 annas. The rainfall was on the whole favourable. But in the Palamow sub-division the fall was deficient in July, August and September, as the following figures will show :—
	Palamow	4,260	2,130	852	10 annas ...	10 „	

	Actual fall.	Normal fall.
	Inches.	Inches.
July	7·49	12·56
August	7·33	12·03
September...	6·65	7·95
	21·47	32·54

	District Total .	12,044	3,803	2,150	12½ annas	9 annas.	To this and the absence of rain during the *kattya* is attributed the short harvest estimated at 10 annas. The November rains, which were not heavy (only ·85 inch), did not affect the crop.
Manbhoom .. .	Govindpur	803	289	133	14 annas	12 annas	The rainfall was with slight exceptions favourable. In the Govindpur sub-division, the rainfall was similar to that of the Sudder sub-division, but unlike the latter, Govindpur had insufficient rainfall in October (·37 inch against 4·00 inches). This is said to have caused damage to the extent of 2 annas. In November 2·05 inches of rain fell against ·17 inch normal; but as it was distributed over several days, it did no harm. On the contrary, where rain had been previously short, it probably did some good.
	Sudder	3,344	1,203	553	14 „	10 „	
	District Total ...	4,147	1,492	686	14 annas	11 annas.	
Singbhoom	Kolhan	1,946	973	450	13 annas	14 annas ...	The rainfall in this district was deficient in July (8·79 inches against 14·00 inches) and also in September (2·81 inches against 8·38 inches). But for this deficiency and the absence of rain in the last week of September and the first week of October, the crop would have been, the Deputy Commissioner says, a bumper one. This does not appear likely, considering the great importance of the September rains. The Deputy Commissioner estimates the outturn for the whole district at 16 annas, which, having regard to the deficient rainfall, appears to be high. Heavy rains (2 to 4 inches) were recorded at several stations in Singbhoom in November. It is not stated whether they injuriously affected the crop.
	Porahat	660	247	150	15 „	14 „	
	Dhalbhum	1,147	573	400	16 „	14 „	
	District Total ..	3,753	1,793	1,000	16 annas	14 annas.	
	GRAND TOTAL FOR THE WHOLE OF BENGAL.	153,919·712	87,586·28	52,023·62	.....	.....	

† 20 annas represents a bumpur crop, 16 annas an average crop, and 12 annas a three-fourths of an average crop.

Division.	District.	May.		June.		July.		August.		September.		October.		November.	
		Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.
Burdwan	Burdwan	5·01	3·89	9·23	10·93	11·80	8·43	12·36	5·90	7·87	8·50	4·16	1·77	0·42	6·76
	Bankoora	4·03	2·42	9·52	15·44	13·12	11·20	13 78	8·75	8·63	8·06	3·77	3·61	0·35	3·80
	Beerbhoom	3·40	4·15	9·10	12·23	12·38	10·00	13·67	8·99	9·16	9·67	3·41	0·85	0·21	3·45
	Midnapore	5·05	2·45	9·39	9·58	13 76	8·23	13·25	12·90	8·85	7·14	5·26	3·60	0·48	4·24
	Hooghly .	3·34	1·78	9·75	11·78	12·74	9·03	14·21	8·16	8·43	6·16	4·07	3·89	0·35	2·87
	Howrah	5·81	3·68	9·45	13·74	13·13	14·96	14 29	12·30	8·04	5·85	3 65	5·82	0·43	2·26
Presidency ...	24-Pergunnahs...	5·79	3·22	9·88	14·84	12·97	11·80	13·72	10·30	9·62	7·47	4·40	7·76	0·40	3·89
	Khoolna	3·61	0·90	12·44	12·20	13·45	10·30	12·43	9·33	9·33	7·56	4·52	10·40	0·48	3·38
	Nuddea	6 35	2·38	9 62	11·27	10·48	8·63	12·19	8·72	8·52	9·58	4·17	4·19	0·59	7·40
	Jessore	7·01	2·67	12·10	13·97	11·55	9·00	11·64	7·75	8·43	7·14	4·45	7·25	0·46	7·08
	Moorshedabad ...	5·21	5·40	9·08	11·09	11·00	10·35	11·79	6·87	9·77	11·40	4·37	1·38	0·28	3·68
Rajshahye ...	Dinagepore	6·45	0·73	13·25	17·41	12·14	10·83	11·87	9·15	11·17	17·21	3·44	1·78	0·13	0·23
	Rajshahye	6·09	1·47	10·28	13·29	11·82	11·77	11·48	5·01	11·26	10·88	4·53	1·99	0·19	2·09
	Rungpore	11·24	3·90	21·49	26·26	13·00	16·86	12·35	12·52	13·00	15·01	4·46	1·03	0·18	0·5
	Bogra	7·91	1·98	13·11	23·89	13·69	11·76	11·81	9·42	10·70	17·10	4·34	2·35	0·49	1·05
	Pubna	7·11	5·94	11·82	14·39	10·83	9·10	11·95	8·49	10·27	8·64	4·45	5·00	0·35	5·57
	Darjeeling	7·70	4·84	24·09	29·30	30·36	42·36	26·67	17·50	17·42	14·15	6·10	2·98	0·28	0·61
	Julpigoree	11·96	0·56	29·12	33·81	26·06	33·26	25·91	23 17	23·59	20·12	5·25	1·35	0·10	0·39
Dacca	Dacca	8·70	8·16	12·91	21·52	13·84	14·39	12·38	13·31	10·05	8·21	4·61	7·37	0·61	4·53
	Furreedpore	8·80	3·93	12·61	18·19	12·49	10·74	12·08	10·90	8·68	6·21	4·24	6·52	0·44	0·35
	Backergunge	7·80	3·80	18·06	20·52	18·78	15·64	16·14	16·57	11·36	9·18	5·63	9·90	1·29	2·16
	Mymensingh	9·94	8·6	17·42	26·63	13·55	18·39	14·07	16·63	12·94	15·54	5·32	7·18	0·34	1·78
Chittagong	Tipperah	10·21	6·93	17·21	18·09	15·27	10·23	16·37	7·28	11·58	9·51	5·96	8·27	0·79	2·71
	Noakholly .	10·95	5·85	24·18	23 56	21·82	22·00	23·49	21·54	16·26	16·59	7·37	6·04	2·30	2·99
	Chittagong	6·34	5·28	26·32	20·75	28·52	28·03	23·48	29·13	14 07	16·68	6·60	5·00	2·06	1·36
	Chittagong Hill Tracts	...	...	...	...	...	...	...	...	...	...	...	...	1·91	4·38
Patna	Patna	2·18	2·24	5·95	11·58	12·12	10·60	10·58	12·68	7·20	8·84	2·97	0·25	0·22	0·19
	Gya	1·74	0·30	5·52	9·29	11·83	10·96	11·71	12 89	6·90	4·45	2·58	0·85	0·25	0·24
	Shahabad	1·30	0·36	5·30	5·03	11·97	10·78	11·40	14·67	7·29	5·23	3·19	1·08	0·26	0·98
	Durbhunga	2·68	1·61	8·00	11·82	11 60	13·86	10·71	11·65	9 25	13·86	2·74	0·22	0·06	0·01
	Mozufferpore	2 51	0·61	7·08	14·06	11·26	13·31	10·11	8 31	8·27	12·41	3·03	Nil	0 07	0·21
	Sarun	1·92	0·99	6·39	8·95	11·41	11·75	10·21	7·58	7·68	10·00	3·74	Nil	0·14	1·04
	Chumparun	2·60	0·95	8·31	17·70	12·12	20·10	12·18	6·27	9·05	15·42	3·46	0·16	0·04	0·67
Bhagulpore ...	Monghyr . .	2·34	1·60	6·38	9·58	11·89	10·51	11·21	8·07	7·75	11·59	3·13	0·09	0·23	0·10
	North Bhagulpore . .	3·90	1·25	8·71	14·51	11 61	16·25	11·87	15·43	9·76	16·61	3·30	0·66	0·10	Nil
	South Bhagulpore ...	2·64	1·42	7·77	11·89	10 91	10·52	11·23	6·67	7·98	10·21	3·64	0·38	0·18	0·15
	Purneah	5·50	2·57	12·98	20 04	15·47	21·32	14·63	11·54	13·63	21·61	3·43	10·70	0·21	Nil
	Maldah	4·80	0·70	10·80	7·88	11·50	8·70	12·03	4·00	10·52	15·85	3·62	2·06	0·23	0·47
	Sonthal Pergunnahs .	3·75	2·82	9·59	11·33	12·97	13·81	12 79	8·41	8·06	12·31	3·62	3·48	0·28	1·70
Orissa	Cuttack	3·95	3·34	9·12	13·07	12·20	14·94	12·20	12·67	9·53	8·08	5·89	8·56	1·09	9·85
	Balasore	4·95	4·59	8·25	5·97	12·20	8·63	11·77	10·76	11·2·	6·33	5·36	7·93	0·92	6·56
	Pooree	2·76	1·12	7·89	13·03	10·65	11·83	11·46	18·89	9·98	9·97	7·42	12·06	2·04	14·64
Chota Nagpore ...	Hazaribagh	2·38	1·20	7·90	7·15	13·10	11·06	13·07	11·63	8·10	7·06	3·26	2·68	0·28	1·35
	Lohardugga	2·38	1·08	7·00	7 44	12·94	8·08	12·81	12·34	8·94	8·66	2·47	3·41	0·41	0·97
	Manbhoom	3·25	1·87	8·42	10·59	11·53	10·37	12·87	7·83	7·68	7·33	3·68	1·09	0·15	2·06
	Singbhoom	4·17	1·96	8·01	16·37	14·00	8·79	13·78	12·56	8·38	2·81	2·94	3·84	0·24	2·44

RESOLUTION ON THE ADMINISTRATION REPORT OF THE HOOGHLY BRIDGE FOR THE YEAR ENDING THE 31ST MARCH 1889.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Marine.

No. 2907*Mne.*, *Calcutta, the* 30*th December* 1889.

RESOLUTION.

READ—

Administration Report of the Hooghly Bridge for the year ending the 31st March 1889.

Read again—

Public Works (Marine) Proceedings (A) for February 1889, Nos. 4 to 6, being the Administration Report of the Hooghly Bridge for 1887-88, together with the Resolution recorded thereon.

It was stated in the Resolution on the Administration Report of the Bridge for the last year that the Commissioners had paid off the whole of the Bridge debt due to Government. The only liability in the form of debt due from the Bridge Trust is a sum of Rs. 1,77,031, representing the portion of the capital chargeable to the Bridge in respect of the expenditure made from the proceeds of loans raised for the construction or acquisition of certain works and property designed for the joint use of the Port and Bridge Trusts. The annual charge for interest and sinking fund on this account amounts to Rs. 10,856.

2. The following table shows the actual receipts and expenditure of the Bridge during the year 1888-89, as compared with the estimated amounts, and also the actual income and expenditure of the previous nine years:—

Particulars	1888-89. Estimated	1888-89. Actual.	1887-88.	1886-87.	1885-86	1884-85	1883-84.	1882-83	1881-82	1880-81.	1879-80.
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs	Rs.	Rs
Receipts from railway traffic ..	1,24 973	1,28 985	2,91,638	4,02,495	3,53,210	2 89,125	3,79,501	3,25,556	3,09,038	2,56,251	2,40,305
Ditto local ditto ..	93,757	94,000	1,27,253	1,40,740	1,40,687	1,28,301	1,22,200	1,11,813	1,10,959	99,907	1,09,348
Ditto hire of steamer *Helvetia* ..	1,000	996	419	489	4 0	446	937	2 219	1,951	2,012	2,218
Receipts from hire of steamer *Howrah* or *Buckland*.		27	132		.....	100	...	1,841	4,709	6,211	9,786
Interest on Government securities	26,566	26,566	24,056	42,098	20,763	22,174	22,174	21,089	12,960	11,062	11,606
Proportion of rent of Head Office .	528	487	528	528	523	527	574	580	652	652	653
Sale of engines and boilers of steam ferry *Howrah*	..		... .	...		.	... ..	...	..	4,537	..
Miscellaneous .		2,096	512	737	646	814	221	942	1,103	363	310
Proportion of earnings of steam-tug *Hetty*	10,000	8,515	13,038	9,303	11,102	17,372	11,088	21,641	15,256	12,636	.....
Rent of Bridge approach land .	2,859	3,044	2,693	1,876	2,611	1,557		..	.	.	
Total	2,59,678	2,64,716	4,60,269	5,98,256	5,30,012	4,60,416	5,36,695	4,85,681	4,54,627	3,93,741	3,74,226
Expenditure.											
Interest on loans	..	7,659	9,486	43,989	79,899	32,082	64,984	76,070	81,186	84,519	87 842
Proportion of salaries—Control	11,071	10,209	10,398	12,896	12,733	11,459	12,018	10 402	10,560	11,668	10,732
Salaries	35,400	32 501	32,183	32,310	32 154	31 764	31,584	32,114	32,130	32,054	30 948
Working expenses	34, 00	42,798	18,020	14,048	16,872	14,270	13 956	11,467	13,864	19,187	15,054
Repairs .	32 500	42,617	38,962	50,078	29,213	47,500	32 187	34,137	32,412	12,315	18,292
Steamer *Howrah* or *Buckland* .	18,748	19,751	14,879	15,347	15,464	16,979	13,646	14,888	19,045	23,646	15,653
Proportion of municipal taxes of officers' quarters, storeyard, and police quarters	7,400	7,052	5,171	3,618	9,950	10,890	8,141	1,499	1,644	1,211	1,474
Miscellaneous	...	.	.			112	1,324			7,080	479
Proportion of establishment, &c., of steam-tug *Hetty*	10,300	10,560	11,052	12,231	10,932	10,667	11,384	11,299	12,664	8,369	...
Contribution for overbridge at Howrah ..	.	.	.	.	. .	... .	... .	.	25,000	. . .	.. .
Renewals	27,000	25,694	7,846	2,415	7,608	14,623	2,499	2,674	5,648	..	.
Proportion of salary of Traffic Manager	4,500	4,500	4,500	.	..	.. .		..		.....	.
Total	1,76,919	2,04,241	1,52,607	1,87,021	2,14,025	1,90,946	1,91 721	1,94,545	2,34,152	2,00,019	1,81,386
Net revenue ...		60,475	3,07,662	4,11,235	3,15,987	2,70,070	3,44,974	2,91,136	2,20,475	1,93,722	1,92,840
Grand Total ..	.....	2,64,716	4,60,269	5,98,256	530,012	4,60,416	5,36,695	4,85,668	4,54,627	3,93,741	3,74,226

3. The receipts from railway traffic during the last ten years are analysed in the following statement:—

	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84	1882-83	1881-82.	1880-81.	1879-80
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs	Rs.
Goods at Re 1 per 100 maunds	1,26,508	2,73,368	3,84 862	3,36,452	2,71,106	3,60,559	3,09,043	2,94,963	2,42,958	2,27,483
Passengers at 3 pice each	1,803	17,469	16 854	16,050	17,403	18,236	15 955	13,574	12,418	12,506
Animals	616	729	731	646	489	80	440	427	299	250
Vehicles	58	72	58	62	67	620	78	70	600	64
Total ...	1,28,985	2,91,638	4,02,495	3,53,210	2,39,125	3,79,501	3,25,556	3,09,038	2,56,250	2,40,305

4. Consequent upon the repayment of the debt due to Government, and the accumulation of the Reserve Fund, very important alterations were made in 1888-89 in the financial administration of the Bridge, resulting in a considerable reduction in the receipts. Previous to the 1st of April 1888, only two staples of traffic to Howrah, coal and wheat, had been exempted from the terminal charge. From that date rice, grain, pulses, seeds and salt were exempted, according to the recommendations made by the Committee appointed by Government in January 1888 to take into consideration the scale of fees and tolls to be adopted to cover the cost of the future maintenance of the Bridge. The Committee estimated that the terminal charges that would continue to be levied on the Bridge after the exemption of the above articles would bring in a revenue of Rs. 1,16,000. The actual figures given above show the income to have been Rs. 1,28,985; but the effect of the abolition was not felt during the first month of the year, as that month showed the payments to credit of the Bridge account of terminal charges levied on goods during March 1888, before the staples named above were exempted. Taking away the amount so collected in March from staples subsequently exempted, the income of the year from this source would be reduced to Rs. 1,14,728.

5. The receipts from local traffic included only the collections of the months from April to December, as the Bridge was declared free for local traffic from the 1st of January 1889.

6. There has been an increase of expenditure under the heads "Working expenses," "Repairs," and "Renewals." Before the Commissioners surrendered the income from local tolls, they considered it advisable to make provision for putting the Bridge in thorough repair, and for completing its equipment

by providing spare mooring material. A sum of Rs. 27,588 was spent on anchors and chains and charged to "Working expenses," and this accounts for the entire excess expenditure under this head; while against the grant for "Repairs," the drafts for cost of 118 out of 250 tons of Johore teak battens were charged off in 1888-89. The balance has since been paid for, and there are now in stock sufficient materials to completely renew the whole wearing surface of the Bridge. The expenditure on account of the maintenance and repair of the ferry steamer *Buckland* and the flat *Howrah* has been in excess of the average, the increase being due to the *Buckland* being fitted with steam steering gear, and the flat *Howrah* having undergone extensive repairs. The large expenditure under the head "Renewals" was due to the fact that the new pontoon provided for in the estimates for 1887-88 was not sent out until late in 1888, and the expenditure had therefore to be met in 1888-89.

7. It will be seen from the statement of receipts and expenditure given above that the net revenue of the year under review amounted to Rs. 60,475, making, with the net revenue of previous years, a total net revenue of Rs. 34,00,503, earned during the fourteen years the Bridge has been open for traffic.

8. The following statement shows how the entire net revenue has been appropriated:—

	To end of 1887-88. Rs.	In 1888-89. Rs.	Total. Rs.
Sinking fund paid to Government on the Bridge debt ...	22,41,800	.....	22,41,800
Proportion of sinking fund on consolidated loan due to Government for Head Office and officers' quarters paid to Government	9,888	1,045	10,933
Proportion of sinking fund on debenture loans set aside with the Trustees of the Commissioners' Debenture Loan Account	11,944	2,152	14,096
Reserve Fund	5,21,445	2,50,533	7,71,978
Contribution for the following new works as detailed in Report for 1884-85:—			
Flat *Howrah*	20,000		
Reserve Section	8,000		
Tug steamer *Hetty*	1,35,642		
Ferry steamer *Buckland* ...	1,23,374		
Police quarters	16,573		
Office machinery and tools for workshop	13,321		
Gearing for drawbridge	891		
Two iron buoy boats for floating fenders	2,424	.....	3,20,225
	31,05,302	2,53,730	33,59,032
Balance ...			41,471
Total ...			34,00,503

9. In the Resolution on last year's Administration Report allusion was made to some of the recommendations of the Committee appointed to consider the revised scale of tolls and fees to be levied on the Bridge, and to the orders which had been passed on the same. As mentioned, a part of the Committee's scheme was to give out of the balance at credit of the Bridge account a sum of Rs. 2,00,000 as a contribution towards the construction by the Corporation of Calcutta of a new road from the Bridge to Sealdah. This excess balance over the requirements of the Reserve Fund, which had been fixed by Government, after consultation with the Commissioners, at 5½ lakhs of rupees, was due to the continuance of the local tolls and terminal charges after the extinction of the Bridge debt, and the accumulation of the required Reserve Fund, for which purposes those tolls and charges had been framed. The debt was paid off and the fund accumulated by June 1887, but the tolls continued to be charged till the 31st December 1888. The Government of India, however, objected to this contribution, and in consequence of the orders of that Government upon this proposal the addition to the reserve shown in the foregoing statement was made. The Corporation was still of opinion that the construction of this road was absolutely necessary for the purpose of giving greater facilities to the traffic that exists between the two places. The Lieutenant-

Governor has sanctioned the construction of this road, and the Government of India have sanctioned the raising of a loan by the Corporation not exceeding 50 lakhs, by way of debenture, on the security of the rates and taxes levied under Act II (B.C.) of 1888. The improvement which such a road would effect, and the relief it would afford to the Strand Road traffic, north and south of the Bridge, to the advantage of the traffic from the jetties and wharves, were self-evident, and on a fresh representation being made to the Government of India, that Government, though refusing to sanction legislation for the purpose of enabling the Port Commissioners to contribute the sum of Rs. 2,00,000 towards the construction of the road as proposed by the Committee, raised no objection to the Commissioners lending that sum to the Corporation of Calcutta for three years, without interest, for payment of interest on the loan to be raised for the construction of the road. An Act [Act III (B.C.) of 1889] investing the Commissioners with power to lend this amount to the Corporation of Calcutta on the terms stated has accordingly been passed. The other recommendations of the Committee on tolls and fees have been adopted and approved by Government.

10. The Bridge was kept in thorough working order during the year. The new pontoon, referred to in paragraph 6, was received from England, and put together in the Commissioners' dry dock. On completion, the defective pontoon at the west side of the sixty feet opening was drawn out, and the new one fixed in position. On examination of the defective pontoon it was found that there had been no deterioration in the material, and the only cause which could be assigned for its collapse was that the work of putting the pontoons together originally in 1873-74 was distributed over different yards, and there must have been some defective work in the erection of this particular pontoon.

11. On the 13th December 1888, the Hon'ble Sir Charles Elliot, K.C.S.I., C.S., and Colonel R Home, R.E., C.I.E., inspected the pontoons, superstructure, reserve section, and all spare material in stock. While expressing satisfaction at the condition in which everything was found, they expressed an opinion that provision should be made for further renewal of the pontoons. Although the one mentioned in the last paragraph was the first one to give out in fourteen years, the Commissioners have considered it advisable to appropriate annually a portion of whatever surplus revenue the accounts may show towards the purchase of new pontoons.

12. The Bridge was open for the passage of vessels on 122 occasions, including 20 special Sunday openings. The number of vessels which passed through the opening is given in the following statement:—

	1888-89.	1887-88.	1886-87.	1885-86	1884-85.	1883-84.	1882-83.	1881-82
Sea-going vessels	380	331	295	366	403	469	442	413
Inland steamers and flats	878	899	848	1,102	944	738	664	629
Steam tugs	456	397	387	406	342	361	409	359
Port Commissioners' vessels	20	46	56	69	56	58	42	48
Government steamers and flats	7	6	10	6	10		...	

13. No sea-going vessels collided with the Bridge in passing through the opening, but there were 91 collisions of other vessels, as compared with 63 during the previous year. One of the most disastrous was that of the Port Commissioners' steamer *Research* which collided with the Bridge on the 25th August 1888, resulting in the loss of two lives and the total loss of the vessel. Fifteen country and cargo-boats sank after collision, and on one of these occasions there was a loss of one life. Three steam launches also collided with the Bridge, two of which sank. The increase in the total number of collisions as compared with that of the preceding year was due to the unusually heavy freshets of the year. On one occasion (August 31st) it was found impossible to open at all on the advertised day, owing to the unusual strength of the tide, the Superintendent reporting that the attempt to open on that occasion was more than running a risk, it meant almost certainty of serious damage.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Bridge Commissioners for information.

Ordered also that this Resolution be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON,

Offg. Joint-Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 28th December 1889

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.				
		Western Districts.		
Burdwan Divs.	1	Burdwan Dec. 28, '89	Nil	Weather—rather warm. Harvesting of *amun* still going on. *Rubbi* crops not very good. Sugarcane is in good condition. State of potato fair. Prices of common rice :— Srs. Burdwan ... . 14¼ Culna .. ... . 18 Cutwa ... ... 14¼ Raneegunge ... . 16 } per rupee
	2	Bankoora „ 28, '89	Nil	Weather—hot for the season and occasionally cloudy. Harvesting of *amun* still continues in many places. Other crops doing well. Common rice selling at 21 seers per rupee at Sudder and 17½ seers at Bissenpore.
	3	Birbhum „ 28, '89	Nil	Weather—cloudy and rather warm for the season. *Amun* nearly reaped. Sugarcane in fine order. Winter crops doing well. Rice selling at 16 seers per rupee at Soory and 17½ seers at Rampore Hât.
	4	Midnapur „ 28, '89	Nil	Weather—has been cloudy and heavy, and drizzling showers reported from the south. The rice harvest is still being gathered, and the outturn is good. Prices of rice :— Srs. Sudder ... ... 15 Contai ... ... Tumluk .. .. 18 Ghatal ... ... 18 } per rupee.
	5	Hooghly „ 28, '89	Nil	Weather—very clear. Harvesting of *amun* almost completed. Prospects of *rubbi* favourable. Prices of common rice :— Srs. Sudder ... ... 12 Serampore ... . 11¼ Jehanabad ... ... 16 } per rupee.
		Howrah „ 28, '89	Nil	Weather—cloudy. *Amun* crop is being harvested. Prospects good. Price of common rice 12 seers per rupee.
		Central Districts.		
Presidency Divs.	6	24-Pergns. Dec. 28, '89	Drizzling.	Weather—fine. *Amun* cutting still going on with full vigour; outturn expected to be good. Standing *rubbi* crops doing well
	7	Nuddea „ 28, '89	Nil	Weather—cloudy and warm. *Amun* rice has yielded a fair outturn. The winter crops are doing well.
	8	Khoolna „ 28, '89	0·18	Weather—seasonable, cloudy on two days with a little rain. *Amun* harvest continues with good outturn. The cloudy weather did not continue long enough to cause material injury to the winter crops.
		Bagirhat ..	0·31	
		Satkhira .	0·01	
	9	Jessore „ 28, '89	Nil	Weather—cloudy and hot for the season. *Amun* harvesting continues. Cold-weather crops doing fairly well. Prices of rice stationary.
	10	Moorshedabad „ 28, '89	Nil	Weather—clear and cold. *Amun* and *kalai* are being harvested. Prospects of *rubbi* good.
Rajshahye Divs.	11	Dinagepur „ 28, '89	Nil	Weather—colder towards the end of the week. The harvesting of winter rice continues. Mustard and sugarcane promise well except in the Thakurgaon subdivision, where only 8 annas yield of sugarcane is expected.
	12	Rajshahye „ 28, '89	Nil	Weather—seasonable. Winter rice is being harvested with good outturn; as also *kalai*. Spring crops coming on well. Sugarcane is but an indifferent crop.
	13	Rungpur „ 28, '89	Nil	Weather—seasonable. Harvesting of *amun* still continues. *Rubbi* crops doing well. Prices falling.
	14	Bogra „ 28, '89	Nil	Weather—seasonable. Nearly half the *amun* crop has been reaped, with average outturn of 17 annas. All other crops are doing well. The price of common rice varies from 18 to 20 seers a rupee.
	15	Pubna „ 28, '89	0·04	Weather—cloudy at times. *Amun* is still being harvested; outturn fair. Sugarcane crop thin. Cold-weather crops fairly abundant. Prices still rather high.
	16	Darjeeling „ 28, '89	Nil	Weather—cold. Winter crops doing well. Outturn of *haimanti* paddy in Terai expected to be 14 annas. Prices of common rice :— Srs. Darjeeling ... ... 12 Kurseong ... ... 12 Silliguri ... . 14 } per rupee.
	17	Julpigoree „ 28, '89	Nil	Weather—clear and cool. Cutting of *haimanti* rice still going on with a favourable outturn. Prospects of other crops good. Prices have considerably fallen.

No.	District and date of return.	Rainfall at under Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Dec. 28, '89	Nil	Weather—cool and fine. *Amun* paddy nearly all harvested; outturn on the whole good. Sugarcane and *rubbi* crops on the ground, though late, are doing fairly well Much of these crops has been lost. Fodder is available. Prices of food-grains falling.
19	Furreedpur „ 28, '89	Nil	Weather—rather warm for this time of year. *Amun* crop nearly harvested; outturn 14 annas. *Mung* and *kalai* almost gathered with good outturn. Other *rubbi* crops promise well. *Boro* rice is being sown.
20	Backergunge „ 28, '89	0·44	Weather—rather warm for the time of year. Prospects of crops good Harvesting of *amun* continues.
21	Mymensingh „ 28, '89	Nil	Weather—seasonable. Gathering of *amun* paddy still continues. Prospects of *rubbi* crops good. Price of common rice stationary.
Chittagong Divn. 22	Chittagong „ 28, '89	0·71	Weather—cold and seasonable. Harvesting of *amun* still continues. Prices stationary.
23	Noakholly „ 28, '89	0·12	Weather—three days were cloudy with slight rain; too warm for the season. Harvesting of *amun* continues. *Rubbi* crops doing well. Price of rice stationary.
24	Tipperah „ 28, '89	0·08	Weather—cloudy and unseasonably warm. *Amun* paddy is still being cut. Prospects of winter crops good.
25	Chittagong Hill Tracts. „ 27, '89	0·40	Weather—cold with dense fogs during the first four days, and cloudy during the last three days of the week. Drizzling rain on the 26th. Gathering of late plough-paddy still continues. Mustard, tobacco, and chillies progressing.
	Hill Tipperah „ 28, '89	Nil	Weather—seasonable. Gathering of *amun* paddy, cotton, and oilseeds still continues. Chillies and tobacco doing well.
BEHAR.			
Patna Divn. 26	Patna „ 28, '89	Nil	Weather—cold Harvesting of paddy still continues. *Rubbi* crops look well, but rain is wanted. Prospects of poppy favourable. Prices of food-grains almost stationary.
27	Gya „ 28, '89	Nil	Weather—cold. Harvesting of paddy going on. Prospects of *rubbi* and poppy favourable. Food-stocks sufficient.
28	Shahabad „ 28, '89	Nil	Weather—cold and seasonable. Reports of paddy and *rubbi* crops favourable. Sugarcane doing well. Prices stationary.
29	Durbhunga „ 29, '89	Nil	Weather—cold nights and mornings. Harvesting of the winter rice almost completed—a crop above average. The prospects of the *rubbi* are favourable, but rain is wanted. The tobacco crop is fair. Poppy reported by the opium officer to be very promising. Common rice ranges from 19 to 23 seers per rupee.
30	Mozufferpur „ 28, '89	Nil	Weather—unusually mild for this time of year. Poppy and *rubbi* crops promise well. Rice harvest almost completed.
31	Sarun „ 28 '89	Nil	Weather—cold and seasonable. Prospects of *rubbi* and poppy crops excellent Sugarcane doing well.
32	Chumparun „ 28, '89	Nil	Weather—cool and fair. Harvesting of *aghani* rice finished. *Rubbi* crops growing well; prospects satisfactory. Poppy looks healthy. Sugarcane is being pressed; probable outturn 10 annas.
Bhagulpore Divn. 33	Monghyr „ 28, '89	Nil	Weather—cool and seasonable. Harvesting of winter rice still going on. Prospects of *rubbi* crops and poppy continue promising.
34	Bhagulpur „ 28, '89	Nil	Weather rather too warm and cloudy early in the week; now bright and cool. Rice harvest on low lands is closing. Sugarcane outturn only fair. *Rubbi* crops doing well, but require rain now.
35	Purneah „ 28, '89	Nil	Weather—warm days, cold nights; clouds about. *Aghani* rice is for the most part harvested. Outturn will be about average. Mustard and *kurthi* are being gathered in places. Tobacco and other *rubbi* crops doing well.
36	Maldah „ 28, '89	Slight rain.	Weather—cold and cloudy with slight rain on two days. Harvesting of winter rice continues. *Rubbi* crops doing well. Price of rice ranges from 16 to 19 seers a rupee.
37	Santhal Pergha. „ 28, '89	Nil	Weather—cloudy and rather warm. No rain. Paddy harvest is going on with good outturn. *Rubbi* crops doing well. A little rain wanted in Godda.

	No.	District and date of return.		Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
ORISSA.					
Orissa Divn.	38	Cuttack	Dec. 28, '89	Nil	Weather—cloudy for some days, but now fine. Reaping of *sarad* (late rice) continues. *Biri* is being gathered in some places.
	39	Pooree	„ 27, '89	0·17	Weather—cloudy and drizzling. Harvesting of winter rice (late *sarad*) still continues. *Dalua* crop is being sown. Prices of food-grains steady.
	40	Balasore	„ 28, '89	Nil	Weather—cloudy and warm. Rice harvest nearly over. *Rabbi* crops doing fairly well.
CHOTA NAGPORE.					
		South-West Frontier Agency.			
Chota Nagpore Divn.	41	Hazaribagh	Dec 28, '89	Nil	Weather—cloudy for some days. Crops in good condition generally. Poppy promising. In thanas Chowparun, Chatra, and Huntergunj the outturn of paddy is reported to be from 8 to 12 annas. Wheat prospects in Chowparun are reported to be from 10 to 14 annas
	42	Lohardugga	„ 28, '89	Nil	Weather—cloudy. Harvesting of paddy still continues Prospects of *rabbi* at head-quarters good. In south of the Palamow subdivision *rabbi* is slightly damaged by frost.
	43	Singbhoom	„ 28, '89	Nil	Weather—cloudy. Crop prospects favourable. Prices stationary.
	44	Manbhoom	„ 28, '89	Nil	Weather—seasonable. All crops doing well

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 31st December, 1889.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 22nd to 28th December 1889.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather
1889.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Dec.	22nd	129·6	9 2	30·016	65·0	75 9	20·7	55·2	60 5	0·473	57·4	73	N by E, NNE, and N.	55	Nil	Chiefly clear, ▲.
,,	23rd	123·2	3·1	007	68 1	77·7	18 8	58·9	63 3	·521	60 1	77	NNE and N .	71	,,	Chiefly clear, ▲.
,,	24th	131 8	4·5	29·968	71 8	79 6	15;4	64 2	66·4	·576	63 0	75	NE and ENE .	84	,,	Chiefly cloudy, o.
,,	25th	109 7	Nil	·965	71 5	77 0	10 4	66·6	67·7	·628	65·4	82	ENE and E	83	0·02	Cloudy, o, g, d.
,,	26th	134 5	7 0	·991	72 0	80 1	14·6	65 5	68 6	655	66 6	84	ESE and ENE ...	51	0·01	Chiefly cloudy, d, ▲.
,,	27th	133 5	7·6	30 039	71 9	79 6	14·8	64·8	67 8	·629	65 5	81	E by S, NNE and N by E	56	Nil	Partially cloudy, ▲, —.
,,	28th	132 8	8·9	·036	68 6	78·7	17 3	61 4	63 1	506	59 3	72	NNE, N and NNW	75	,,	Chiefly clear, ▲.

		Inches.
The mean pressure of the seven days		30·003
The average pressure of the corresponding period for 24 years, S -G.'s Office ...		30·038
		Hours.
The total number of hours of bright sunshine		40 3
The maximum possible number of hours of sunshine		75·0
		°
The mean temperature of the seven days		69 8
The average temperature of the corresponding period for 24 years, S.-G.'s Office		67·2
The extreme variation of temperature		24·9
The maximum temperature		80 1
		Miles
The highest velocity of the wind in one hour		10
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		78
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		71
		Inches.
The total fall of rain from 22nd to 28th December 1889 ...		0 03
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		0 01
The total fall from 1st January to 28th December 1889		57 47
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		63·24

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast ; ▲ dew ; = fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA ;

Calcutta, the 30th December 1889.

Meteorological Report of the Province of Bengal

Meteorological Division	District	Representative station	Station Observations. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature
Orissa.	Pooree	Pooree	30·007	30·020	—	N. Ely.	247	?	?	56·9	22nd Dec.	?	59·9	?	—	67·7
		Gopalpore	30·004	30·054	—·065	NNW	274	81·7	21st Dec.	60·0	1, 22 ,,	78·7	63·3	72·5	+4·2	69·5
		False Point	30·007	30·029	—·077	N	216	78·9	27th ,,	54·0	21st ,,	70·9	61·3	70·1	+4·8	69·2
	Cuttack	Cuttack	29·972	30·037	—·048	North-easterly	50·3	84·8	27th ,,	56·8	21st, 22nd Dec.	81·9	64·4	73·2	+4·5	68·3
	Balasore	Balasore	30·017	30·078	— 033	NNW	91·0	81·4	25th ,,	50·5	21st ,,	70·4	58·9	69·1	+4·7	65·6
South-West Bengal.	South-West Midnapore South 24-Pergunnahs	Saugor Island	30·030	30·057	—·046	NNE	216	81·7	25th ,,	56·5	22nd ,,	77·1	63·9	70·5	+5·8	66·6
	Midnapore	Midnapore	29·917	30·075	—·043	N	62·1	81·3	25th ,,	52·2	21st, 22nd Dec	80·0	59·3	69·7	+4·4	64·5
	24-Pergunnahs Howrah Hooghly	Calcutta	30·047	30·069	—·038	Northerly	65	80·0	27th ,,	53·3	21st ,,	77·4	60·9	69·2	+5·5	65·5
	Burdwan	Burdwan	29·964	30·071	— 046	Calm	27·3	82·1	26th ,,	53·3	21st ,,	79·6	60·7	70·2	+6·0	68·4
	Bankoora	Bankoora	29·746	30·065	— ·040	Calm	51·3	80·6	27th ,,	50·7	21st ,,	78·5	59·0	68·7	+5·0	63·0
	Beerbhoom West Burdwan	Raneegunge	29·745	30·099	—·026	NW	45·5	80·9	27th ,,	51·9	21st ,,	79·6	58·6	69·1	+5·6	62·2
East Bengal.	Moorshedabad	Berhampore	30·069	30·079	— 033	N	34·2	80·1	26th, 27th Dec.	54·2	21st ,,	78·1	59·6	68·8	+5·2	61·8
	Nuddea	Krishnaghur	30·030	30·105	—·010	NNW	58·3	81·3	26th ,,	50·9	21st ,,	78·5	59·1	68·9	+5·4	64·7
	Jessore Khoolna	Jessore	30·024	30·089	—·035	Calm	30·0	81·2	25th ,,	54·5	21st ,,	78·8	61·6	70·3	+6·5	64·7
	Chittagong	Chittagong	29·947	30·040	—·035	North-easterly.	37·2	84·1	24th ,,	56·1	21st ,,	81·7	64·1	72·9	+7·2	69·0
	Chittagong Hill Tracts	Demagiri						Observations not received								
	Backergunge	Barrisal	30·043	30·056	—·008	NNE	41·1	81·8	24th Dec.	55·1	23rd ,,	78·4	60·2	69·3	+5·0	67·7
	Noakholly	Noakholly	30·005	30·050	—	North-easterly.	76·9	83·0	25th ,,	55·0	21st ,,	79·8	61·7	70·7	—	66·6
	Furreedpore	Furreedpore	30·037	30·074	— 012	Calm	37·9	81·5	25th ,,	55·5	22nd ,,	76·3	61·1	68·8	+5·4	65·2
	Dacca	Dacca	30·030	30·064	—·031	NNE	64·0	84·6	24th ,,	55·3	22nd ,,	80·6	61·3	71·0	+5·1	65·9
	Tipperah	Commillah	30·015	30·052	—·030	N	34·0	83·4	24th ,,	55·0	22nd ,,	79·9	59·9	69·9	+5·4	65·8
	Mymensingh	Mymensingh	30·013	30·074	—·010	Variable	32·0	81·8	24th ,,	55·4	22nd ,,	79·2*	58·5	69·1*	+5·9	63·0
	Bogra	Bogra	29·988	30·054	—·005	Calm	17·3	81·3	25th ,,	53·1	22nd, 23rd Dec.	79·1	56·7	67·9	+3·8	61·6
North Bengal.	Pubna	Serajgunge	30·018	30·067	—·023	North easterly.	16·6	81·5	27th ,,	52·9	22nd ,,	79·0	57·8	68·4	+5·2	64·3
	Rajshahye	Rampor Beauleah.	30·002	30·076	— 011	N & NNE	69·7	79·9	25th ,,	53·7	21st ,,	77·7	58·1	67·9	+6·3	62·4
	Maldah	Maldah	30·012	30·098	—	NW	78·3	80·5	27th ,,	50·5	22nd ,,	78·2	55·2	66·7	—	60·6
	Dinagepore	Dinagepore	29·965	30·093	+ 013†	North-easterly.	51·3	80·1	24th, 25th, Dec.	53·2	21st & 27th Dec.	78·7	55·1	66·9	+4·2	60·3
	Rungpore	Rungpore	29·973	30·103	—·010	ENE	34·3	79·8	24th ,,	54·0	21st ,,	78·2	55·3	66·8	+4·3	60·6
	Julpigoree Cooch Behar	Julpigoree	29·806	30·111	—·004	Northerly	37·0*	?	?	53·9	23rd & 27th Dec.	?	55·3	?	?	58·9
	Darjeeling Hill Tracts	Darjeeling	23·035	—	+ 008	Variable	68·5	58·2	24th ,,	35·0	20th ,,	54·2	36·9	45·6	+4·8	41·6
	Purneah North Bhagulpore	Purneah	29·907	30·102	—·008	Calm	26·5	77·3	25th ,,	49·0	4th ,,	76·1	52·3	64·2	+3·6	57·2
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·939	30·117	—·004	EsE	30·6	75·4	23rd Dec.	53·9	21st ,,	77·2	54·9	66·0	+4·1	58·9
	Chumparun	Mothari	29·876	30·121	+ ·017	Calm	64·0	77·6	24th ,,	47·9	21st ,,	75·7	49·5	62·6	+3·5	53·9
	Sarun	Chupra	29·921	30·126	+ ·026	Northerly	47·0	76·3	25th & 26th Dec.	50·0	27th ,,	75·3	51·7	63·5	+3·9	60·1
South Behar.	Shahabad	Dehree	29·750	30·130	+ ·002	SsW	111·9	79·8	21st ,,	49·0	21st ,,	77·5	52·6	65·1	+3·2	58·2
		Buxar	29·870	30·130	0	Variable	41·2	76·4	21,24,25,27,,	47·4	21st ,,	75·8	51·2	63·5	+3·7	57·0
		Arrah	29·908	30·118	+ ·014	Calm	44·2	77·6	25th ,,	46·3	22nd ,,	76·6	50·1	63·3	+4·0	56·2
	Gya	Gya	29·722	30·127	—·002	South-westerly.	103·0	80·3	26th ,,	48·5	22nd ,,	77·6	53·4	65·5	+3·5	57·4
	Patna	Bankipore	29·932	30·127	—·010	SW	14·5	76·8	25th ,,	50·4	21st ,,	76·1	53·6	64·8	+4·4	59·1
	South Bhagulpore Monghyr	Bhagulpore	?	?	?	Variable	53·3	79·3	25th ,,	49·5	21st ,,	77·8	53·3	65·6	+5·4	57·7
Chutia Nagpur.	Sonthal Pergunnah	Doomka	29·570	30·100	—	NNW	41·3	78·6	27th ,,	48·8	21st ,,	77·0	55·4	66·2	—	60·1
	Hazaribagh	Hazaribagh	28·022	30·121	—·011	Calm	117·7	76·1	26th ,,	48·5	22nd ,,	73·9	53·4	63·6	+3·9	59·0
	Lohardugga Manbhoom	Ranchee	27·884	30·102	—·013	Calm	98·4	77·0	26th ,,	47·9	22nd ,,	75·7	52·9	63·3	+4·2	59·0
	Singbhoom	Chyebassa	29·303	30·100	—	Calm	27·8	81·0	27th ,,	48·2	22nd ,,	78·6	56·4	67·5	—	63·4

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100 A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 27th of December 1889.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since May 15th. Mean for district.	Since May 15th. Normal mean.	Since May 15th. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division
86	3·3	0·17	0·35	0·04	0·35	0·84	−0·49	74·88	55·16	+19·72	1·5	0·1	Pooree	Pooree	Orissa.
80	4·1	0 36											Gopalpore		
88	6·1	1·04											False Point		
73	6·0	Nil	0·05	0 04	0·05	0·57	−0·52	64 14	51·54	+14·70	0·2	0·1	Cuttack	Cuttack	
83	1·7	0·03	0·02	0·01	0·02	0 28	−0·26	49·89	52 55	−2·66	0·2	0·1	Balasore	Balasore	
80	5·0	0·03	0·04	Nil	0·04	0 34	−0·30	56·43	61 98	−5 55	1·0	0 0	Saugor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
76	2·6	Nil	Nil	Nil	Nil	0·25	−0·25	46·29	51·00	−4·71	0·0	0·0	Midnapore	Midnapore	
87	4·4	0 05	Nil	0 1	Nil	0 29	−0·29	53·38	51 16	+2·22	0·0	0·1	Calcutta	24-Pergunnahs... .. Howrah .. .. Hooghly	
79	4·3	Nil	Nil	0·01	Nil	0 19	−0 19	43 81	46 29	−2·46	0·0	0·1	Burdwan	Burdwan	
76	3·7	Nil	Nil	0·01	Nil	0 30	−0·30	51 88	5..28	+3·60	0·0	0·1	Bankoora	Bankoora	
81	4·6	Nil	Nil	Nil	Nil	0·13	−0 13	52·44	51·16	+1·28	0·0	0·0	Ranegunge	Beerbhoom .. ... West Burdwan ...	
92	4·1	Nil	Nil	Nil	Nil	0·14	−0·14	51·13	49 99	+1·17	0·0	0·0	Berhampore	Moorshedabad ...	
84	3 4	Nil	Nil	0 01	Nil	0 14	−0·14	51·40	48 83	+2·66	0·0	0·1	Krishnaghur	Nuddea	
92	4·1	Nil	0·06	0 02	0·06	0 26	−0·20	53·30	52·64	+0·75	0·4	0·1	Jessore	Jessore ... ... Khoolna	
87	7·0	0·67		0·05		0·56			112·98			0·1	Chittagong	Chittagong .. .	East Bengal.
				0 08		0 55			80·60			0·1	Demagiri	Chittagong Hill Tracts	
91	1·0	0·22	0 24	0·02	0·24	0·43	−0·19	77 82	76·32	+1·50	1·0	0 1	Barreal ..	Backergunge	
85	0 4	0 15	0·26	0 02	0·26	0 81	−0·55	90·29	105 81	−15 52	1·5	0·1	Noakholly	Noakholly	
80	2 3	Nil	0·02	Nil	0·02	0 13	−0·11	60·23	55 39	+4·84	0·3	0·0	Furreedpore	Furreedpore	
87	4 7	Nil	Nil	0·01	Nil	0 25	−0·25	74·50	59·21	+15·38	0·0	0 1	Dacca	Dacca	
88	1·3	Nil	0·02	0·02	0·02	0 37	−0·35	55 45	68·80	−13·35	0·2	0·1	Commullah	Tipperah	
91	3·0	Nil	Nil	0·01	Nil	0·15	−0 15	87·69	67·13	+20·56	0 0	0 1	Mymensingh	Mymensingh	
88	1·4	drops	0·01	Nil	0·01	0·14	−0 13	64·81	56·89	+7·92	0·2	0·0	Bogra	Bogra	North Bengal.
94	3·0	0 13	0·08	0 01	0·08	0·11	−0 03	55·07	52 84	+2·23	1·0	0 1	Serajgunge	Pubna	
84	1·3	Nil	Nil	Nil	Nil	0·13	−0·13	54·30	53·31	+0 99	0·0	0·0	Tampore Beauleah	Rajshahye	
85	1·4	Nil	Nil	Nil	Nil	0·10	0 10	39·76	53·72	−13 96	0·0	0·0	Maldah	Maldah ...	
84	0·9	Nil	Nil	Nil	Nil	0 18	−0·18	57·37	56 59	+0 78	0·0	0·0	Dinagepore	Dinagepore	
88	0	Nil	Nil	0·01	Nil	0·15	−0·15	85 16	73·69	+11·47	0·0	0·1	Rungpore	Rungpore	
89	0	Nil	Nil	Nil	Nil	0·16	−0·16	117·13	111·19	+3 94	0·0	0·0	Julpigoree	Julpigoree ... ... Cooch Behar	
95	0·3	Nil	Nil	0·01	Nil	0·29	−0·29	132·75	120·24	+12·51	0·0	0·1	Darjeeling	Darjeeling Hill Tract.	
89	0·7	Nil	Nil	Nil.	Nil	0 09	−0·09	74·71	58·10	+16·61	0·0	0·0	Purneah	Purneah ... ... North Bhagulpore ...	North Behar.
			Nil	0·01	Nil	0·08	−0·08	48·65	42·57	+6·09	0·0	0·1	Mozufferpore	Mozufferpore	
89	0	Nil	Nil	Nil	Nil	0·08	−0·08	51·64	44 61	+7·83	0·0	0·0	Durbhunga	Durbhunga	
89	0	Nil	Nil	0·02	Nil	0·18	0·18	63·55	46·09	+17 46	0 0	0·1	Motihari	Chumparun	
89	0	Nil	Nil	0·01	Nil	0·15	−0·15	40·13	42·19	−2 06	0 0	0·1	Chupra	Sarun	
81	0·6	Nil											Dehree ..		
83	0·4	Nil	Nil	0·03	Nil	0 32	−0·32	40·07	39·56	+0·51	0·0	0·1	Buxar ...	Shahabad ...	
82	0·1	Nil											Arrah		
76	2·0	Nil	Nil	0 04	Nil	0·29	−0·2.	37·07	40·86	−3·79	0·0	0·1	Gya	Gya ..	South Behar.
82	0 6	Nil	Nil	0·01	Nil	0·12	−0·12	43·40	40·75	+2·74	0·0	0·1	Dankipore	Patna	
93	0·3	Nil	Nil	Nil	Nil	0·07	−0 07	42 43	43·04	−0 61	0 0	0·0	Bhagulpore	South Bhagulpore .. Monghyr ...	
84	0·9	Nil	Nil	Nil	Nil	0·10	−0·10	54·19	50·29	+3·86	0·0	0·0	Soomka	Sonthal Pergunnahs...	
74	3·3	Nil	Nil	0·01	Nil	0 27	−0·27	43·03	50·07	−7·04	0·0	0·1	Hazaribagh	Hazaribagh	Chutia Nagpur.
77	5·4	Nil	Nil	0 02	Nil	0 36	−0·36	44·34	48·58	−4·24	0·0	0·1	Ranchi	Lohardugga	
			Nil	0 01	Nil	0·20	−0·20	38·33	46 42	−8·09	0·0	0·1		Manbhoom ...	
74	3 0	Nil	Nil	0 01	Nil	0·38	−0·38	48·76	50 78	−2·02	0·0	0·1	Chyebassa ...	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10 Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of December 1889.

Meteorological division.	District.	Station.	Rainfall. Saturday, 21st December.	Sunday, 22nd December.	Monday, 23rd December.	Tuesday, 24th December.	Wednesday, 25th December.	Thursday, 26th December.	Friday, 27th December.	Total number of rainy days.	Total rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 15th May to date.
Orissa	Pooree	Pooree	.....	.....	.....	0·08	0·04	0·00	.....	3	0·21	0·21	0·74	80·63	51·08
		Khurdah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·52	70·57	56·23
		Banpur	.....	.....	.....	.....	0·14	.....	.....	1	0·14	0·14	1·20	65·50	48·89
		False Point	.....	.....	.....	.....	0·05	0·39	.....	2	1·04	1·04	0·82	76·80	63·23
		Goy											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	73·97	46·70
		Banki	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·87	52·13	49·26
		Cuttack	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	75·18	56·01
		Kendrapara	.....	.....	.....	.....	.....	0·26	.....	1	0·26	0·26	0·51	72·08	52·78
		Jajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	57·04	53·01
		Dharmsala	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore	Chandbali	.....	.....	.....	.....	.....	0·12	.....	1	0·12	0·12	0·60	54·64	51·00
		Bhuddruk	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	57·66	51·14
		Soroh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·05	50·84
		Balasore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	46·61	57·44
		Jellasore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	39·59	53·18
		Baripodah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	54·79	53·45
South-West Bengal.	Midnapore	Contai	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·05	0·41	55·13	60·08
		Saugor Island	.....	.....	.....	.....	.....	0·03	.....	1	0·03	0·03	0·36	56·74	60·70
		Tumlook	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	49·40	50·81
		Midnapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	46·26	48·11
		Ghattal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	43·19	54·04
		Kukrahaty	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·05	?
		Hersa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·06	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·72	?
		Garhetta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour	.....	.....	.....	.....	.....	0·04	.....	1	0·04	0·04	0·26	63·41	57·86
		Canning Town	.....	.....	.....	.....	.....	0·17	.....	1	0·17	0·17	?	57·80	?
		Alipore Jail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	51·80	55·15
		Barrackpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	51·79	49·89
		Dum-Dum	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	64·58	51·10
		Baraset	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	57·81	49·24
		Russerhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	60·92	54·11
	Howrah	Howrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	59·12	51·31
		Mohesreka (*Golobarah*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	54·64	51·46
	Hooghly	Serampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	55·27	49·69
		Hooghly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	56·92	47·70
		Jehanabad	.....	.....	.....	.....	.....	.....	0·03	1	0·03	·03	0·20	41·16	54·65
	Burdwan	Culna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	41·32	43·04
		Burdwan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	47·07	47·51
		Cutwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	43·11	47·33
		Raneegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	55·83	48·69
		Mankur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·71	?
	Hankoora	Bankoora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	50·79	51·14
		Bishenpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	57·40	51·60
		Malara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		0·23		51·38
		Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	65·91	53·75
		Indas	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		48·40	?
		Anda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40 44	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Raipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·33	?
	Beerbhoom	Bh. Soory	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	59 06	53·25
		Hetampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	47·07	53·77
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	47·78	51·00
		Bolpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·97	?
		Mararai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea	Kanaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	55·80	46·57
		Kishnaghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	42·95	46·71
		Chooadanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 14	49·81	50·66
		Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	53·05	47·11
		Kooshtea	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	53·01	53·96
	Khoolna	Satkhira	.....	.....	.....	.....	.....	0·01	.....	1	0·01	0·01	0·36	52·51	54·75
		Bagirhat	.....	.....	.....	.....	.....	0·31	.....	1	0·31	0·31	0·27	54 00	60·79
		Khoolna	.....	.....	.....	.....	.....	0·18	.....	1	0 18	0·18	0·32	56·78	54·15
		Nakipur	.....	.....	.....	.....	.....	0·30	.....	1	0·30	0·30	?		?
	Jessore	Narail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	49·47	45·26
		Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	52·35	53·70
		Jhenidah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	50·36	52·98
		Magoorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 15	50·48	48·80
		Bongong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	40·01	51·35
	Moorshedabad	Kandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	53·38	50·39
		Berhampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	46 16	50·75
		Lalbagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	47·13	50·52
		Azimgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11		50·83
		Jung pore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	55·01	48·66
		Lalgola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	59·02	50·30
		Jiagunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·25	?
		Akhriguej	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·81	?
		Patkabari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong	Cox's Bazar	.....	.....	.....	.....	.....	.....	.....				0·40		135·01
		Chittagong	.....	.....	.....	.....	.....	0·34	0·37	2	0·71	0·71	0·60	76·42	93·76
		Kutubdia	.....	.....	.....	.....	.....	.....	.....				?		?
		Satkania	.....	.....	.....	.....	.....	.....	.....				?		?
	Chittagong Hill Tracts.	Rangamati	.....	.....	.....	.....	.....	0·40	.....	1	0·40	0·40	0·56	63·04	83·10
		Rama	.....	.....	.....	.....	.....	.....	.....				0·53		79·81
	Backergunge	Gournadi	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·05	0·31	57·20	57·11
		Perozepore	.....	.....	.....	.....	.....	0·20	.....	1	0·20	0·20	0·30	72·16	69·83
		Burrisal	.....	.....	.....	.....	.....	0 44	.....	1	0·44	0·44	0·34	72·62	66·07
		Bhola	.....	.....	.....	.....	.....	0·27	.....	1	0·27	0 27	0·37	79·20	81·45

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of December 1889—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 21st December	Sunday, 22nd December.	Monday, 23rd December.	Tuesday, 24th December.	Wednesday, 25th December.	Thursday, 26th December.	Friday, 27th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 15th May to date.
East Bengal —contd.		*Gournadds* ..						0·35		1	0·35	0·35	?	?	?
		Bauphal ..											?	92·89	?
	Noakholly ...	Noakholly						0·12		1	0·12	0·12	0·60	102·17	107·16
		Fenny						0·35	0·05	2	0·40	0·40	1·00	78·38	105·90
		Harishpore ...						0·39		1	0·39	0·39	?	82·96	?
		Ramganj ..								Nil	Nil	Nil	?	96·75	?
	Furreedpore	Madaripore ..						0·06		1	0·06	Nil	0·16	60·86	54·94
		Furreedpore ..								Nil	Nil	Nil	0 14	63·80	58·90
		Goalundo .								Nil	Nil	Nil	0·10	56·29	52·52
	Dacca ...	Munshigange								Nil	Nil	Nil	0·34	76·33	69·55
		Dacca .								Nil	Nil	Nil	0·19	73·69	68·04
		Naraingange								Nil	Nil	Nil	0·35	80·36	69·45
		Manickganje								Nil	Nil	Nil	0·12	67·99	49·55
		Joydebpore								Nil	Nil	Nil	?	66·61	?
	Hill Tipperah Tipperah ...	Agartola ..								Nil	Nil	Nil	0·38	44·08	60·90
		Comilla ...						0·08		1	0·08	0·08	0·45	62·17	75·42
		Chandpore ..								Nil	Nil	Nil	0·40	64·82	75·24
		Brahmunberia								Nil	Nil	Nil	0·25	50·68	60 88
		Ramchandra-pore.								Nil	Nil	Nil	?	60·14	?
		Nasirnagar ...								Nil	Nil	Nil	?	30·59	?
		Daudkandi ..								Nil	Nil	Nil	?	52·29	?
		Kasba ...								Nil	Nil	Nil	?	62·44	?
		Laksham ..								Nil	Nil	Nil	?	69 09	?
	Mymensingh..	Kishoregange								Nil	Nil	Nil	0·15	60·56	69·34
		Atia (*Tangail*)					0·02			1	0·02	0·02	0 09	61·00	56·97
		Mymensingh								Nil	Nil	Nil	0·12	96·55	73·36
		Jamalpore ...								Nil	Nil	Nil	0·20	85·14	64·04
		Netrokona ...								Nil	Nil	Nil	0·19	126·92	73·61
		Subornakhali								Nil	Nil	Nil	?	57·43	?
		Durgapore ...								Nil	Nil	Nil	?	1·19·98	?
		Sherepore Town								Nil	Nil	Nil	?	87·09	?
		Dewanganj .								Nil	Nil	Nil	?	56·31	?
North Bengal	Pubna ...	Pubna ...					0·04			1	0·04	0 04	0·11	49·87	53·26
		Serajgunge ...						0·13		1	0·13	0·13	0·10	60·26	52·35
	Bogra ...	Sherepore ...								Nil	Nil	Nil	0·18	62·66	57·03
		Nowkhilla ...								Nil	Nil	Nil	0·12	60·96	53·81
		Bogra ...					0·08			1	0·08	0·08	0·07	70·63	60·10
		Panchbibi .								Nil	Nil	Nil	0·18	64·96	53·40
	Rajshahye ...	Beaulesh .								Nil	Nil	Nil	0·10	46·20	52·51
		Nattorr ..								Nil	Nil	Nil	0·10	58·84	54 29
		Naogaon ..								Nil	Nil	Nil	0·20	57·27	50·64
		Lalpore ...								Nil	Nil	Nil	?	36·72	?
		Manda ..								Nil	Nil	Nil	?	46·27	?
	Maldah ..	Maldah .								Nil	Nil	Nil	0·14	50·53	51·26
		Chanchal ...								Nil	Nil	Nil	0·04	28·96	56·17
		Gajol ...								Nil	Nil	Nil	?	39·79	?
		Sibganj ...								Nil	Nil	Nil	?	51·77	?
	Dinagepore ..	Mohadebpore								Nil	Nil	Nil	0·17	53·63	55·82
		Churamon ..								Nil	Nil	Nil	0·16	51·81	51·92
		Balurghat .								Nil	Nil	Nil	0·17	52·25	57·25
		Dinagepore								Nil	Nil	Nil	0 08	67·84	62·39
		Kaleeserhat								Nil	Nil	Nil	0·29	61·28	50·90
		Thakurgaon								Nil	Nil	Nil	?	87·47	?
	Rungpore ..	Bnawaniganje (*Gyabanda*)								Nil	Nil	Nil	0·14	57·53	61·24
		Rungpore ...								Nil	Nil	Nil	0 08	74·41	73·94
		Kurigram ...								Nil	Nil	Nil	0·17	90·97	73·81
		Bogdogra (*Nilphamari*).								Nil	Nil	Nil	0·21	87·69	84·63
		Ulipore ...								Nil	Nil	Nil	?	79·00	?
	Julpigoree ...	Julpigoree ...								Nil	Nil	Nil	0·10	123·37	116·44
		Alipore Door								Nil	Nil	Nil	?	119·38	?
		Fallacotta ...								Nil	Nil	Nil	?	127·43	?
		Debiganj ...								Nil	Nil	Nil	?	89·92	?
		Bhagalpore (*Nagrakatta*).								Nil	Nil	Nil	?	136·51	?
	Cooch Behar.	Dinhatta ...								Nil	Nil	Nil	0·26	96·00	95·73
		Cooch Behar ...								Nil	Nil	Nil	0·11	125 34	117·85
		Mekilgunge ...								Nil	Nil	Nil	0·20	121·37	105·21
		Masabhanga ...								Nil	Nil	Nil	0·14	117·65	111·15
	Darjeeling Hill.	Buxa ...								Nil	Nil	0·01	0·36	191·08	191·56
		Silliguri ...								Nil	Nil	Nil	0·11	120·71	102·50
		Darjeeling ...								Nil	Nil	Nil	0·36	127·87	108·11
		Kalimpong ..								Nil	Nil	Nil	0·43	91·36	82·66
		Kurseong ...								Nil	Nil	Nil	?	168·25	?
North Behar	Purneah ..	Kissengunge ...								Nil	Nil	Nil	0·10	102·37	69·75
		Arrareah ...								Nil	Nil	Nil	0·08	79·61	63·24
		Purneah ...								Nil	Nil	Nil	0·15	63·45	61·13
		Gondwara ...								Nil	Nil	Nil	?		?
		Balarampore								Nil	Nil	Nil	?		?
		Matari ...								Nil	Nil	Nil	?		?
		Kaliagunj ...								Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..								Nil	Nil	Nil	0·05	60·35	49·04
		Soopool ...								Nil	Nil	Nil	0·09	57·26	47·68
		Protabganj ...								Nil	Nil	Nil	?	57·85	?
	Durbhunga ...	Tajpore ...								Nil	Nil	Nil	0·07	42·44	42 58
		Durbhunga ...								Nil	Nil	Nil	0·12	5[illegible]	45·28
		Madhubani ...								Nil	Nil	Nil	0·06	63·11	44·29
		Jahera ...								Nil	Nil	Nil	?	69·96	?
		Rashera ...								Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ...								Nil	Nil	Nil	0·08	55·06	42·52
		Mozufferpore								Nil	Nil	Nil	0·08	48·41	44·71
		Hanpore ...								Nil	Nil	Nil	0·12	42·32	41·39
		Para ...								Nil	Nil	Nil	?	37·69	?
		Mahua ...								Nil	Nil	Nil	?	41·02	?
		Sonhar ...								Nil	Nil	Nil	?	?	?
		Pupri ...								Nil	Nil	Nil	?	47·60	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of December 1889—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 21st December.	Sunday, 22nd December.	Monday, 23rd December.	Tuesday, 24th December.	Wednesday, 25th December.	Thursday, 26th December.	Friday, 27th December.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	74·79	44·14
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	53·29	47·45
		Bagaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·87	?
		Barhurwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun ...	Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	35·48	42·72
		Sewan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	44·20	44·23
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	40·74	39·90
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	47·44	37·79
		Dehree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	44·96	39·31
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	38·16	40·16
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	29·41	40·18
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	42·69	39·89
		Mohaniah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	35·42	42·24
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	39·8	42·03
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	39·59	39·57
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	33·40	39·38
		Arwal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Daudnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·60	?
		Sherghatti	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	?
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	51·49	41·38
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	45·53	40·94
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	41·08	41·23
		Bukrom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	35·84	39·34
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		43·28	?
														35·21	?
	Monghyr ...	Begoosseral ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	47·62	39·61
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	41·07	40·07
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	39·44	42·35
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	46·06	41·72
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	38·34	43·14
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	?
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	59·90	52·02
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	40·01	47·10
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	73·59	55·08
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	56·75	52·61
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	40·40	50·08
		Jamara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	45·21	48·74
		Mohagama	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·41	?
		Nanikat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·87	?
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	38·90	47·03
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	49·10	46·47
		Somaxurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	36·24	46·39
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30		47·21
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	43·00	52·03
		Barhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·36	?
		Chutra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·04	?
		Karagdeha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·35	?
		Ramghar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Lohardugga ...	Lohardugga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	45·24	50·46
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	53·61	51·58
		Pulamow	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	34·16	42·49
		Silli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
		Balumat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hossainabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28·77	?
	Singbhoom	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	46·76	50·98
		Chakradhar-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·80	?
		Ghatsilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	?
		Kukaragura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	48·46	48·53
		Gobindpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	33·19	44·46
		Raghunath-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		46·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Jhalda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·12	?
		Oras	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·56	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 31*st December* 1889.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 27TH DECEMBER 1889.

At the close of the previous week weather conditions in Bengal were quite normal for the season, and therefore of ordinary cold weather character. In the Bay also weather was fine except in the extreme south, where along the Madras coast from Cuddalore southwards rain was falling, the conditions being still disturbed as the result of the cyclonic storm which had passed across the extreme south of the peninsula on December 18th, moving in a westerly direction. On the 21st, or the first day of the present week, conditions in Bengal remained unaltered, but skies clouded up heavily over the south of Burma. Drizzling rain commenced over this area, and pressure fell slightly at Diamond Island, while elsewhere it was generally rising. Winds also at the South Burma stations commenced to show distinct indraught towards the south of the Bay, and at Diamond Island, instead of the light winds usual at this season, wind had increased to almost a gale. On this day, therefore, it is clear that weather had became very disturbed over the south of the Bay, and it is probable that a cyclonic storm had commenced to form. On the 22nd the area of stormy weather was still quite in the south of the Bay and probably about Longitude 88° E. The storm, therefore, appeared on this day to have drifted in a westerly direction, and probably the centre of the storm was not further north than Negapatam, or perhaps even than Trincomalee. At this time all the indications appeared to point to the probability that the storm would advance across the extreme south of the peninsula, or even across the north of Ceylon. On the morning of the 23rd, the storm was probably to the east-north-east of Negapatam and at some distance from land, and it was moving slowly in a north-westerly direction. On the 24th it had again advanced in a north-westerly direction, and its centre was probably to the east of Nellore or east-north-east of Madras; while on the morning of the 25th it had come much nearer the land, and its centre was to the south-east of Masulipatam. Even on the morning of the 25th it was apparent that the storm had ceased to intensify, but it was on this date a rather severe storm; but by the morning of the 26th, and particularly from midnight of the 25th, the storm had commenced to fill up rather rapidly. On this date it had become only a barometric depression, but it was accompanied by fairly strong winds, and the position of its centre was decidedly nearer the land than on the previous day, and it was perhaps even a little to the south-west of its previous position. On the morning of the 27th the depression had quite passed inland, the centre crossing the coast apparently between Masulipatam and Nellore during the afternoon or evening of the 26th. The storm in its progress was accompanied by only a moderate barometric depression as indicated by the readings at the coast stations, but it will be observed that the storm centre was at no time very near to any meteorological station while it existed as a severe storm. The strength of the winds in the northern half of the storm was decidedly great, and for two days a gale of wind was blowing at some of the ports on the west coast. No observations from ships which were involved in the storm have yet been received, but it is probable that very severe weather accompanied the northern half of the storm, but winds in the southern half appear to have been comparatively feeble. The rainfall in connection with the storm at the land stations has been also only moderate.

As is usually the case, directly a rather severe storm is formed in the Bay, weather conditions commenced to change in Bengal. Temperature at first began to rise slowly, but from about the 23rd or 24th, when the skies had clouded over quickly, the night temperatures rose very rapidly and became very high. The storm in its north-westerly advance apparently also caused a wave of moist winds from the sea to advance over Bengal, and on about the 24th at many stations the sky was almost overcast, while humidity as well as temperature was high. In Orissa and South-East Bengal, and in parts of South and even North Bengal, so much moisture was thus brought up that light showers commenced to fall at a few stations, and dull and rather gloomy weather obtained for some days,—in fact almost up till the close of the week. For a considerable part of the week under review, therefore, the weather conditions have been almost the reverse of the normal north-east monsoon weather, but with the gradual breaking up of the storm on the 26th, and with its disappearance inland on the 27th, conditions had begun slowly to improve again in Bengal even on the 26th and 27th of the month.

Pressure.—The storm which has been previously described was, even in its nearest advance, so far from Bengal that it had not much practical effect on the pressures recorded, except that at many stations, and particularly at those in the south-west of the province, pressure continued to fall very slowly up to about the 25th; but on the last two days of the week there was a rise, the increase on the 27th being rather rapid. The mean pressure for the week has been almost normal in Behar and North Bengal, but over the southern, and particularly over the south-western, districts there has been a distinct defect. In South Bengal generally the defect has varied from about two to four hundredths of an inch, but at such stations as Gopalpur and False Point, which were nearest to the storm, the defect has equalled about seven hundredths of an inch.

Temperature.—A very large increase in the night temperatures took place during the week, as before recorded, and generally temperature has been rather largely in excess of the normal throughout the week. The excess in the mean temperature has been largest in South-West and East Bengal and South Behar, where it has averaged from five to six degrees. In

Orissa, Chutia Nagpur, and North Bengal, the excess has been from four to five degrees, while the smallest excess of all is nearly four degrees in North Behar. The average mean temperature for the whole province has therefore been almost five degrees in excess of the normal for the week.

This excess has been most largely marked in the minimum or night temperatures. This will be seen clearly in the following table, where the average maximum, mininum and mean temperatures for the week for nine typical stations in different districts of the province are compared with their normal values for the same period. The usual range of temperature during the week in various districts can therefore also be here clearly seen. At such stations as Calcutta, Cuttack, and Burdwan, the average night or minimum temperatures for the week have been no less than about eight degrees in excess of the normal, while at the same stations the day or maximum temperatures have only been about three degrees in excess: —

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 27th December 1889.

	Normal mean maximum temperature for the week ending 27th December.	Actual mean maximum temperature for the week ending 27th December 1889.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 27th December.	Actual mean minimum temperature for the week ending 27th December 1889.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 27th December.	Actual mean daily temperature for the week ending 27th December 1889.	Variation of actual mean from the normal.
Cuttack	80·7	81·9	+1·2	56·6	64·4	+7·8	68·7	73·2	+4·5
Calcutta	74·4	77·4	+3·0	52·9	60·9	+8·0	63·7	69·2	+5·5
Dacca	76·7	80·6	+3·9	55·0	61·3	+6·3	65·9	71·0	+5·1
Burdwan	76·0	79·6	+3·6	52·4	60·7	+8·3	64·2	70·2	+6·0
Patna	72·1	76·1	+4·0	48·6	53·6	+5·0	60·4	64·8	+4·4
Gya	74·4	77·6	+3·2	49·5	53·4	+3·9	62·0	65·5	+3·5
Purneah	73·0	76·1	+2·2	47·3	52·3	+5·0	60·6	64·2	+3·6
Hazaribagh	70·7	73·9	+3·2	48·6	51·4	+4·8	59·7	63·6	+3·9
Darjeeling	46·3	54·2	+7·9	35·2	36·9	+1·7	40·8	45·6	+4·8

Rainfall.—Though a few showers have been received in Orissa and South-East Bengal, and at a few stations in South and North Bengal, the amounts received have not been important The stations in Orissa and East Bengal show an average rainfall of a little more than a tenth of an inch, but the amounts in the other districts have been so small that they have only averaged a hundredth of an inch False Point received the heaviest fall of about an inch, while the following stations received falls of a fifth of an inch and upwards:— Pooree, Kendrapara, Bagirhat, Nokipur, Chittagong, Rangamati, Perozepore, Burrisal, Bhola, Bauphal, and Feuny.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 27th of December 1889:—

Meteorological Divisions.	Temperature						Rainfall.								
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 15th May.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa*	84·8	50 5	79·2	63·2	71·2	+4·6	0·12	0·03	+0 09	0·6	0 1	+0·5	0·12	0·53	62·01	53·49
South-West Bengal ...	82 1	50·7	78·6	60·3	69·5	+5·4	0·01	0·01	0	0·2	0·1	+0·1	0·01	0·23	52·37	51·53
East Bengal	84·6	55·0	79·4	61·0	70·2	+5·7	0·12	0·02	+0·10	0·5	0 1	+0·4	0·12	0·35	75·50	73·08
North Bengal	81·5	50·5	78·5	56·4	67·4	+4·7	0·01	Nil	+0·01	0·1	0 0	+0·1	0·01	0·15	73·12	69·85
North Behar	78·4	47·9	70·1	52·1	64·1	+4·3	Nil	0·01	—0·01	0·0	0·1	—0·1	Nil	0·11	57·06	48·16
South Behar	80·3	47 4	70·9	52·8	64·9	+5·2	Nil	0·02	—0·02	0·0	0·1	—0·1	Nil	0·17	44·16	43·30
Chutia Nagpur	77·0*	47 9*	73·8*	53·2*	63 5*	+4·0*	Nil	0·01	—0 01	0·0	0·1	—0·1	Nil	0·28	43·06	46·84

* Pooree, Julpigoree and Chyebassa not included.

Meteorological Office, Bengal; *The 31st December* 1889.

A. Pedler, *Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 22nd to 28th December 1889.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
1889.		Inches.	°	°	°	° °	°	°	Inches.	°	%	Inches.
December ...	22nd ...	30·078	66·5	77·6	22·2	55·4	69·6	63·6	·509	59·5	70	.. ..
,, ...	23rd ...	·063	69·0	77·9	17·8	60·1	72·4	65·1	·523	60·2	66	.....
,, ...	24th ...	·027	70 8	81·4	21·3	60·1	73·6	66·1	·542	61·2	65	.....
,, ...	25th ...	·035	72·9	77·9	10·0	67·9	73·6	68 6	·633	65·7	76	.....
,, ...	26th ...	·079	73·9	81·4	15·0	66·4	72·8	69·6	·682	67·8	85	0·05
,, ..	27th ...	·121	72 8	80 4	15·3	65·1	75·6	70·6	·683	67·8	77	.
,, ...	28th ...	·118	71·2	79·9	17·5	62·4	73·6	64·8	·497	58·8	66	.....

The mean 10 A.M. pressure of the seven days	Inches.	30·074
The mean temperature of the seven days	°	71·0
The extreme variation of temperature		26·0
The maximum temperature		81·4
The mean 10 A.M. relative humidity of the seven days	%	72
The total fall of rain from 22nd to 28th December 1889	Inches.	0 05

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 30th December 1889.

MEMORANDUM.

DURING the week ending 14th December 1889, births and deaths were registered in the principal Municipalities in Bengal at the rates, respectively, of 26·9 and 31·6 per 1,000 of population, against 28·4 and 29·6 per 1,000, indicating a falling off in the registration of births against an improvement in that of deaths.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Bali	45·6	Naraingunj	124·2
Serampore	45·1	Jessore	91·8
Rampore Beauleah	42·0	Utterpara	84·9
Arrah	40·7	Serampore	84·4
Durbhanga	39·3	Poori	83·9
Monghyr	38·9	Hughli and Chinsurah	59·1
Utterpara	37·7	Howrah	40·1
Bhagulpore	37·1	Dacca	38·3
Darjiling	37·0	Gya	35·5
Gya	35·5	Comillah	34·7
Hughli and Chinsurah	34·5	Durbhanga	34·6
Naraingunj	33·1	Purneah	34·6
Chupra	31·2	Monghyr	34·4

3. The principal diseases specified in the table appended to this memorandum proved fatal at the rates exhibited below :—

	Ratio per *mille* during the weeks ending—	
	14th December 1889.	7th December 1889.
Cholera	4·7	4·9
Small-pox	·2	·3
Fever	13·4	10·8
Bowel-complaints	5·0	4·2
Injury	·4	·4
Other causes	7·9	8·9

ndicating chiefly that, in comparison with the preceding week, the severity of fever has increased considerably, but that the mortality from the diseases classed under the head of "Other causes" has diminished to some extent.

4. While no Municipality suffered much from small-pox or presented a large number of casualties from injury, the following returned conspicuously high death-rates from the rest of the diseases specified in the above table :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Naraingunj ...	82·8	Jessore ...	73·5	Utterpara ...	37·7	Naraingunj ...	29·0
Poori ...	27·2	Hughli and Chinsurah ...	37·7	Serampore ...	19·6	Serampore ...	23·6
Serampore ...	13·7	Purneah ...	31·2	Poori ...	14·7	Poori ...	18·9
Howrah ...	13·2	Serampore ...	27·5	Hughli and Chinsurah ...	13·1	Dacca ...	13·6
Dacca ...	6·5	Bali ...	21·1	Burdwan ...	12·2	Durbhanga ...	12·6
		Gya ...	20·5	Howrah ...	10·9	Gya ...	11·6
				Monghyr ...	9·9		

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age*	Ratio per *mille.*
Males	33·6	Christians	14·9	Under 1 year ...	178·2
Females	29·5	Hindus	32·8	1 and under 5 years ...	35·2
Ratio of male deaths to every 100 female deaths	122	Mahomedans	28·8	5 „ 10 „ ...	20·7
		Budhists	51·4	10 „ 15 „ ...	14·0
		Other classes ...	76·8	15 „ 20 „ ...	23·1
				20 „ 30 „ ...	20·9
				30 „ 40 „ ...	24·3
				40 „ 50 „ ...	27·0
				50 „ 60 „ ...	40·9
				60 years and upwards ...	76·7

The 30th December 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 14*th December* 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.											
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week	Deaths.		Ratio per 1,000 of Population per annum		Ratio of male deaths to every 100 female deaths.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	9	2	11	13·7	3·1	16·8	450	...	...	8	8	...	2	18	...	...	12·2	12·2	..	3·1	27·5	41·2	14	4	40·3	13·0	350
Midnapore ...	Midnapore ..	16,927	16,633	33,560	6	3	9	9·3	4·6	13·9	200	1	...	3	4	...	6	14	1·5	...	4·6	6·2	...	9·3	21·7	29·4	9	5	27·6	15·6	180
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	11	21	16·4	18·1	34·5	90	2	...	23	8	...	3	36	3·3	...	37·7	13·1	...	4·9	59·1	45·9	21	15	68·9	49·3	140
Serampore ...	Serampore ...	13,859	12,937	26,496	13	10	23	25·5	19·6	45·1	130	7	...	14	10	...	12	43	13·7	...	27·5	19·6	...	23·6	84·4	66·7	22	21	84·4	84·4	104
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	2	...	2	4	...	1	9	18·9	...	18·9	37·7	...	9·4	84·9	18·9	8	1	136·6	21·1	800
Howrah ..	Howrah	53,153	37,660	90,813	28	21	49	16·0	13·0	28·1	133	23	1	13	19	...	14	70	13·2	·6	7·4	10·9	...	8·0	40·1	38·4	39	31	38·1	42·8	125
	Bali	7,836	6,979	14,815	6	7	13	21·1	24·5	45·6	85	...	...	6	...	...	...	6	...	...	21·1	...	...	...	21·1	35·1	1	5	6·6	37·3	20
Nuddea ..	Kishnaghur ...	13,263	14,214	27,477	6	7	13	11·4	13·2	24·6	85	...	...	8	...	...	3	11	...	...	15·1	...	...	5·7	20·8	5·7	8	3	31·4	11·9	266
	Ranaghat	4,028	4,655	8,683		...	1	0·0	...	0·0	No female birth.	...	...	2	...	...	2	4	...	...	12·0	...	...	12·0	24·0	6·0	3	1	36·7	11·2	300
	Santipore	15,708	15,979	29,687	5	9	14	8·7	15·8	24·5	55	...	...	10	...	...	...	10	...	...	17·5	...	...	...	17·5	22·8	3	7	11·4	22·8	42
Jessore ...	Jessore	4,830	3,665	8,495	2	2	4	12·2	12·2	24·5	100	1	...	12	...	...	2	15	6·1	...	73·5	...	...	12·2	91·8	24·5	7	8	75·4	113·5	87
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	8	16	21·9	21·0	42·0	100	...	...	4	...	...	4	8	...	...	10·5	...	...	10·5	21·0	31·5	4	4	19·3	23·0	100
Darjiling ...	Darjiling	4,579	2,439	7,018	1	4	5	7·4	29·6	37·0	25	...	..	2	1	...	...	3	...	...	14·8	7·4	...	...	22·2	22·2	1	2	11·4	42·6	50
Dacca ...	Dacca	42,782	37,379	80,161	21	21	42	13·6	13·6	27·2	100	10	1	17	10	...	21	59	6·5	·6	11·0	6·5	...	13·6	38·3	37·0	31	28	27·7	39·0	110
	Naraingunj ...	7,605	4,956	12,561	3	5	8	13·4	20·7	33·1	60	20	...	3	...	...	7	30	32·8	...	12·4	...	...	29·0	124·2	136·6	25	5	170·9	52·5	500
hittagong ...	Chittagong ...	13,340	8,790	22,130	1	2	3	3·8	4·7	7·0	50	...	...	7	2	...	...	9	...	...	16·4	4·7	...	...	21·1	9·4	6	3	23·4	17·7	200
Tipperah ...	Comillah	8,153	5,353	13,506	...	4	4	...	15·4	15·4	No male birth.	2	...	4	...	..	3	9	7·7	...	15·4	...	...	11·6	34·7	34·7	5	4	31·9	38·9	125
Patna	Patna City ...	78,762	81,475	160,237	22	13	35	7·1	4·2	11·4	169	3	...	14	11	...	10	38	1·0	...	4·5	3·6	...	3·2	12·3	14·3	18	20	11·9	12·8	90
Gya	Gya	38,290	37,831	76,121	27	25	52	15·4	17·1	35·5	108	4	...	30	...	1	17	52	2·7	...	20·5	...	·7	11·6	35·5	38·3	24	28	32·6	38·5	85
Shahabad ...	Arrah	20,960	22,505	43,465	20	14	34	23·9	16·7	40·7	142	...	...	13	1	3	2	19	...	...	15·5	1·2	3·6	2·4	22·7	15·6	9	10	22·3	23·1	90
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	3	3	6	3·6	6·1	9·7	60	2	...	5	4	1	...	12	2·4	...	6·1	4·9	1·2	...	14·6	14·6	8	4	18·0	10·6	200
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	25	25	50	19·6	19·6	39·3	100	3	...	25	...	...	16	44	2·4	...	19·6	...	...	12·6	34·6	33·8	22	22	33·9	35·4	100
arun	Chupra	25,116	26,554	51,670	21	10	31	21·1	10·1	31·2	210	...	...	6	2	...	6	14	...	...	6·0	2·0	...	6·0	14·1	21·1	7	7	14·5	13·7	100
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	23	19	41	19·9	17·2	37·1	115	3	...	12	...	...	10	25	2·7	...	10·9	...	...	9·0	22·6	15·4	10	15	17·5	28·0	66
Monghyr ...	Monghyr ...	28,184	29,336	57,520	23	25	48	19·1	20·8	39·9	92	...	...	14	11	3	10	38	...	...	12·7	9·3	2·7	6·0	34·4	33·4	17	21	31·4	37·3	80

MEMORANDUM.

DURING the week ending 14th December 1889, births and deaths were registered in the principal Municipalities in Bengal at the rates, respectively, of 26·9 and 31·6 per 1,000 of population, against 28·4 and 29·6 per 1,000, indicating a falling off in the registration of births against an improvement in that of deaths.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Bali	45·6	Naraingani	124·2
Serampore	45·1	Jessore	91·8
Rampore Beauleah	42 0	Utterpara	84 9
Arrah	40·7	Serampore	84·4
Durbhanga	39·3	Poori	83·9
Monghyr	38·9	Hughli and Chinsurah	59·1
Utterpara	37·7	Howrah	40·1
Bhagulpore	37·1	Dacca	38·3
Darjiling	37·0	Gya	35·5
Gya	35·5	Comillah	34 7
Hughli and Chinsurah	34·5	Durbhanga	34·6
Naraingani	33·1	Purneah	34·6
Chupra	31·2	Monghyr	34 4

3. The principal diseases specified in the table appended to this memorandum proved fatal at the rates exhibited below :—

	Ratio per *mille* during the weeks ending—	
	14th December 1889.	7th December 1889.
Cholera	4·7	4 9
Small-pox	·2	·3
Fever	13·4	10·8
Bowel-complaints	5·0	4 2
Injury	·4	·4
Other causes	7·9	8·9

ndicating chiefly that, in comparison with the preceding week, the severity of fever has increased considerably, but that the mortality from the diseases classed under the head of "Other causes" has diminished to some extent.

4. While no Municipality suffered much from small-pox or presented a large number of casualties from injury, the following returned conspicuously high death-rates from the rest of the diseases specified in the above table :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Naraingani ...	82·6	Jessore ...	73·5	Utterpara ...	37·7	Naraingani ...	29·0
Poori ...	27·2	Hughli and Chinsurah ...	37·7	Serampore ...	19 6	Serampore ...	23·6
Serampore ...	13·7	Purneah ...	31·2	Poori ...	14 7	Poori ...	18 9
Howrah ...	13·2	Serampore ...	27·5	Hughli and Chinsurah ...	13·1	Dacca ...	13 6
Dacca ...	6·5	Bali ...	21·1	Burdwan ...	12·2	Durbhanga ...	12 6
		Gya ...	20·5	Howrah ...	10·9	Gya ...	11 6
				Monghyr ...	9 9		

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age*	Ratio per *mille.*
Males	33·6	Christians	14·9	Under 1 year ...	178·2
Females	29·5	Hindus	32·8	1 and under 5 years ...	35 2
Ratio of male deaths to every 100 female deaths	122	Mahomedans	28·8	5 „ 10 „ ...	20·7
		Budhists	51·4	10 „ 15 „ ...	14 0
		Other classes ...	76·8	15 „ 20 „ ...	23·1
				20 „ 30 „ ...	20·9
				30 „ 40 „ ..	24 3
				40 „ 50 „ ...	27 0
				50 „ 60 „ ...	40 9
				60 years and upwards ...	76 7

The 30th December 1889.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 14th December 1889.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
												Deaths from—							Ratio per 1,000 of Population per annum.						Ratio of deaths per 1,000 of population per annum in the previous week	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Number of— Males.	Females.	Total.	Ratio per 1,000 of Population per annum. Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ...	Burdwan	18,063	16,017	34,080	9	2	11	13·7	3·1	16·8	450	...	...	8	8	...	2	18	...	...	12·2	12·2	...	3·1	27·5	41·2	14	4	40·3	13·0	350
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	3	9	9·3	4·6	13·9	200	1	...	3	4	...	6	14	1·5	...	4·6	6·2	...	9·3	21·7	29·4	9	5	27·6	15·6	180
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	11	21	16·4	18·1	34·5	90	2	...	23	3	...	3	36	3·3	...	37·7	13·1	...	4·9	59·1	45·9	21	15	68·9	49·3	140
Serampore ...	Serampore ...	13,569	12,937	26,496	13	10	23	25·5	19·6	45·1	130	7	...	14	19	...	12	43	13·7	...	27·5	19·6	...	23·6	84·4	66·7	22	21	84·4	84·4	104
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	2	...	2	4	...	1	9	18·9	...	18·9	37·7	...	9·4	84·9	18·9	8	1	136·6	21·1	800
Howrah ...	Howrah	53,153	37,660	90,813	28	21	49	16·0	12·0	28·1	133	23	1	13	19	...	14	70	13·2	·6	7·4	10·9	...	8·0	40·1	38·4	39	31	38·1	42·8	125
	Bali	7,836	6,979	14,815	6	7	13	21·1	24·5	45·6	85	...	...	6	...	...	...	6	...	...	21·1	..	...	...	21·1	35 1	1	5	6·6	37·3	20
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	6	7	13	11·4	13·2	24 6	85	...	...	8	...	...	3	11	...	...	15·1	...	...	5·7	20·8	5·7	8	3	31·4	11·6	266
	Ranaghat	4,028	4,655	8,683		...	1	6·0	...	6·0	No female birth.	...	...	2	...	...	2	4	...	...	12·0	...	...	12·0	24·0	6·0	3	1	36·7	11·2	300
	Santipore	13,706	15,979	29,687	5	9	14	6·7	15·8	24·5	55	...	...	10	...	...	...	10	...	...	17·5	...	...	...	17·5	22·8	3	7	11·4	22·8	42
Jessore ...	Jessore	4,830	3,665	8,495	2	2	4	12·2	12·2	24·5	100	1	...	12	...	...	2	15	6·1	...	73·5	...	...	12·2	91·8	24·5	7	8	75·4	113·5	87
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	8	16	21·9	21·0	42·0	100	...	...	4	...	...	4	8	...	...	10·5	...	...	10·5	21·0	31·5	4	4	19·3	23·0	100
Darjiling ...	Darjiling	4,579	2,439	7,018	1	4	5	7·4	29·6	37·0	25	...	..	2	1	...	...	3	...	...	14·8	7·4	...	...	22·2	22·2	1	2	11·4	42·6	50
Dacca ...	Dacca	42,782	37,379	80,161	21	21	42	13·6	13·6	27·2	100	10	1	17	10	...	21	59	6·5	·6	11·0	6·5	...	13·6	38·3	37·0	31	28	37·7	39·0	110
	Naraingani ...	7,605	4,956	12,561	3	5	8	12·4	20·7	33·1	60	20	...	3	...	...	7	30	82·8	...	12·4	...	...	29·0	124·2	136·6	25	5	170·9	83·5	500
hittagong ...	Chittagong ...	13,340	8,790	22,130	1	2	3	2·3	4·7	7·0	50	...	...	7	2	...	...	9	...	...	16·4	4·7	...	..	21·1	9·4	6	3	23·4	17·7	200
Tipperah ...	Comillah	8,153	5,353	13,506	...	4	4	...	15·4	15·4	No male birth.	2	...	4	...	..	3	9	7·7	...	15·4	...	...	11·6	34·7	34·7	5	4	31·9	38·9	125
Patna	Patna City ...	78,762	81,475	160,237	23	13	36	7·1	4·2	11·4	160	3	...	14	11	...	10	38	1·0	...	4·5	3·6	...	3·2	12·3	14·3	18	20	11·9	12·8	90
Gya	Gya	38,290	37,831	76,121	27	25	52	18·4	17·1	35·5	108	4	...	30	...	1	17	52	2·7	...	20·5	...	·7	11·6	35 5	38·3	24	28	32·6	38·5	85
Shahabad ...	Arrah	20,960	22,505	43,465	20	14	34	23·9	16·7	40·7	142	...	...	13	1	3	2	19	...	...	15·5	1·2	3·6	2·4	22·7	15·6	9	10	22·3	23·1	98
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	3	5	8	3·6	6 1	9 7	60	2	...	5	4	1	...	12	2·4	...	6·1	4·9	1·2	...	14·6	14·6	8	4	18·0	10·6	200
Durbhanga ..	Durbhanga ...	33,774	32,322	66,096	25	25	50	19·6	19·6	39·3	100	3	...	25	...	...	16	44	2·4	...	19·6	...	...	12·6	34·6	33 8	22	22	33·9	35·4	100
arun	Chupra	25,116	26,554	51,670	21	10	31	21·1	10·1	31 2	210	...	...	6	2	...	6	14	...	...	6·0	2·0	...	6·0	14·1	21 1	7	7	14·5	13·7	100
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	22	19	41	19·9	17·2	37·1	115	3	...	12	...	...	10	25	2·7	...	10·9	...	...	9·0	22·6	15·4	10	15	17·5	28·0	66
Monghyr ..	Monghyr	28,154	29,366	57,520	20	23	43	18·1	23·3	38·9	86	...	...	14	11	3	10	38	...	...	12·7	9·9	2·7	9·9	34·4	33·4	17	21	31·4	37·2	80
Purneah ...	Purneah	8,463	6,553	15,016	6	...	6	20·5	...	20·5	No female birth.	...	...	9	...	...	1	10	...	...	31·2	...	...	3·4	34·6	31·2	9	1	55·3	7·9	900
Poori	Poori	13,247	11,537	24,784	6	4	10	12·6	8·4	21·0	150	13	2	9	7	...	9	40	27·2	4·2	18·9	14·7	...	18·9	83·9	54·6	25	15	98·1	67·6	166
	Total ..	550,996	510,588	1,061,574	298	255	550	14·4	12 5	26·9	115	96	4	275	102	8	161	646	4·7	·2	13·4	5·0	·4	7·9	31·6	29·6	356	290	33·6	29·5	123

DISTRICTS.	NAMES OF MUNICIPALITIES.	13	14	15	16
		MORTALITY ACCORDING TO—			
		Class.		Age.	
		DEATHS AMONG—	RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS	RATIO PER 1,000 OF POPULATION PER ANNUM.
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	12	6	...	...	...	26·3	30·4	...	...	1	1	2	1	...	2	2	3	2	4	78·8	23·0	44·6	20·7	...	13·1	18·1	35·3	42·4	146·4
Midnapore ...	Midnapore ...	...	14	...	...	...	...	28·1	...	...	...	3	...	...	...	2	1	...	3	2	3	210·0	...	...	...	33·9	7·1	...	41·9	50·4	88·2
Hughli ...	Hughli and Chinsurah	...	27	9	...	...	...	55·5	75·1	...	...	6	4	1	...	5	4	6	5	2	3	338·5	93·7	18·0	...	103·6	33·5	54·7	62·3	40·0	75·3
Serampore ...	Serampore ...	...	30	4	...	...	...	80·4	221·7	...	...	7	6	2	2	...	7	7	2	2	6	513·7	173·9	41·4	46·8	...	67·6	73·2	30·8	54·3	299·1
	Utterpara ...	...	7	2	...	...	...	68·3	565·2	...	...	...	1	...	...	1	...	1	2	4	...	...	123·5	...	...	118·2	...	49·0	148·4	565·2	...
Howrah ...	Howrah	1	64	14	...	1	27·5	41·2	25·5	...	215·8	7	5	6	2	3	13	10	8	9	9	176·4	46·9	49·6	23·7	21·3	22·9	27·6	35·4	85·2	124·8
	Bali	...	6	...	...	...	...	23·3	...	...	...	...	...	4	...	...	1	...	...	1	...	...	...	196·1	...	...	15·5	...	...	49·6	...
Nuddea ...	Kishnaghur ...	...	7	4	...	...	...	19·5	25·1	...	...	1	1	1	...	1	...	4	...	3	...	104·8	21·1	18·1	...	23·3	...	45·6	...	74·8	...
	Ranaghat	...	8	1	...	...	...	21·3	38·1	...	...	...	1	..	...	..	...	1	2	...	..	...	65·4	...	...	...	...	41·7	103·8	...	...
	Santipore	...	8	2	...	...	...	20·1	11·6	...	...	1	...	1	1	1	...	3	1	...	2	61·5	...	13·8	17·9	23·4	...	36·0	14·8	...	53·0
Jessore ...	Jessore	...	7	8	...	...	...	36·7	106·8	...	...	3	2	...	1	1	2	1	2	2	1	804·1	210·5	...	78·2	71·0	51·6	34·0	99·0	134·7	113·5
Rajshahye ...	Rampore Beauleah	...	4	4	...	...	...	21·0	21·2	...	...	2	...	1	2	...	.	...	2	1	...	256·2	...	25·0	57·7	...	...	...	42·4	41·9	...
Darjiling ...	Darjiling	...	3	...	...	...	...	34·0	...	...	...	1	1	..	...	...	1	...	..	...	...	429·8	80·9	...	...	...	26·0	...	...	...	...
Dacca ...	Dacca	...	38	21	...	...	...	49·0	27·8	...	...	12	3	1	4	2	15	4	5	3	11	328·8	21·2	5·2	26·2	14·2	50·9	17·6	31·0	22·0	102·6
	Narainganj ...	...	22	8	...	...	...	280·9	67·5	...	...	4	2	...	2	1	5	8	7	...	1	745·5	91·2	...	21·6	49·8	97·4	194·5	261·3	. .	79·8
Chittagong ...	Chittagong ..	1	2	4	2	...	65·3	17·9	13·6	433·3	...	1	2	2	...	1	1	2	...	...	...	92·4	52·9	41·6	...	21·5	11·2	21·2	...	...	...
Tipperah ...	Comillah	..	3	6	...	...	...	26·2	42·2	...	...	1	.	2	...	1	2	1	1	1	...	175·1	. .	63·9	...	41·3	37·7	26·1	39·6	64·9	...
Patna	Patna City ...	...	27	11	...	...	...	11·8	14·0	...	...	4	6	2	...	5	4	1	4	6	6	48·3	21·4	6·2	...	23·3	7·2	2·2	11·0	22·1	22·6
Gya	Gya	...	39	13	...	...	...	33·8	42·0	...	..	5	3	4	2	2	5	8	5	6	12	145·3	24·6	29·7	15·5	19·9	17·7	32·7	26·6	47·5	121·2
Shahabad ...	Arrah	...	13	6	...	...	...	21·8	25·1	...	...	1	1	1	1	1	1	3	2	3	5	40·4	11·7	10·1	11·8	16·2	6·6	24·2	22·2	50·4	90·3
Mozufferpore ..	Mozufferpore ...	...	8	4	...	...	...	13·9	16·7	...	...	1	2	..	1	1	1	...	2	2	2	54·5	25·7	...	13·1	17·2	6·1	...	20·8	32·0	42·7
Durbhanga ...	Durbhanga ...	...	37	7	...	...	...	39·7	20·7	...	...	7	7	4	2	2	2	4	3	5	8	233·8	47·6	26·6	18·7	25·9	7·8	18·6	21·0	59·3	130·3
Saran	Chupra	...	7	7	...	..	...	9·2	30·6	...	...	1	4	...	...	3	1	..	..	...	5	36·9	40·3	...	...	44·9	5·6	...	...	...	76·4
Bhagulpore ...	Bhagulpore ...	...	16	9	...	...	...	20·9	27·2	...	...	3	3	3	...	1	2	5	...	3	5	130·7	23·8	26·6	...	12·4	9·5	28·0	...	36·6	72·2
Monghyr ...	Monghyr	...	33	5	...	...	...	38·4	20·7	...	...	7	3	3	3	...	8	3	2	...	9	245·1	25·1	22·1	27·2	...	40·2	17·5	18·3	...	130·5
Purneah ...	Purneah	...	3	7	...	...	...	17·6	64·3	...	...	4	1	1	1	...	2	...	...	1	...	735·0	43·0	32·9	43·5	...	31·7	...	...	55·5	
Poori ...	Poori	...	39	1	...	...	...	32·7	247·6	...	...	4	4	3	...	2	8	3	4	4	3	686·5	115·7	69·6	...	55·9	38·7	102·6	63·6	93·2	96·4
	TOTAL ...	2	478	163	2	1	14·9	33·8	28·8	51·4	76·8	87	63	44	26	36	83	62	65	61	97	178·2	35·2	29·7	14·0	23·1	20·9	24·3	27·0	40·9	76·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 30th December 1889

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 21st December 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 21st December 1889.			Week ending Saturday, the 22nd December 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,615	1,23,283	1,681	1,228	1,62,775	2,168
Jute	343	2,02,650	3,687	274	1,33,875	2,472
Firewood	128	86,850	1,269	179	82,335	1,266
Other articles	996	2,17,070	3,554	1,321	3,23,015	5,345
Total ...	3,082	6,29,853	10,191	3,002	7,02,000	11,251

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 28th December 1889, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 28th December 1889.			Week ending Saturday, the 29th December 1888.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,744	1,59,595	2,298	1,297	3,07,325	2,776
Jute	379	4,00,650	4,166	242	1,36,850	2,458
Firewood	80	46,650	693	156	84,300	1,289
Other articles	1,025	2,56,170	4,042	1,042	1,90,665	2,932
Total ...	3,228	8,63,065	11,199	2,737	7,19,140	9,455

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of October 1889, as compared with the same month of the previous year.

Staples.	1888		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	693	.....	589	.....	693	589	.....	104
Cotton piece-goods—								
1.—European	49	2	6	.....	51	6	.....	45
Grains—								
2.—Rice	158	709	59	7	867	66	.....	801
4.—Others	8	.....	45	4	8	49	41	...
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.. ..	.....	5	.....	.....	5	5	.....
b.—Undressed	1	.....	.....	.....	1	.....	.....	1
Jute—								
1.—Raw	.....	6	.....	5	6	5	. .	1
2.—Gunny bags and cloths	19	2	3	.....	21	3	.....	18
Lac—								
1.—Stick	1	.....	.....	1	1	1	... .	..
Leather, manufactured	8	.. ..	3	.....	8	3		5
Liquors—								
1.—Beer	1	.....	.....	.....	1	..	..	1
Metals—								
4.—Others	1	7	.....	2	8	2	.....	6
Oils—								
1.—Castor	...	... .	1	.....	.....	1	1	.....
2.—Kerosine	1	2	1	.....	3	1	.....	2
3.—Others	1	.....	1	.....	1	1	.....	. .
Oilseeds—								
3.—Mustard and rape	20	.....	24	.....	20	24	4	
6.—Others	39	6	...	.....	45	.....	.....	45
Provisions—								
1.—Ghee	1	.....	3	.....	1	3	2	...
2.—Dried fruits and nuts ...	2	13	.....	.....	15	.....	.	15
3.—Others	1	3	.....	...	4	.....	... ..	4
Railway plant and rolling-stock .	89	21	50	20	110	79	... ..	31
Salt	43	1	16	.....	43	16	.....	27
Silk, raw—								
2.—Indian	2	18	.....	15	20	15	.....	5
Silk piece-goods—								
2.—Indian	.....	4	.....	2	4	2	.....	2
Spices—								
2.—Others	1	.....	.....	.....	1	.....	.....	1
Stone and lime	4		.....	1	4	1	. ..	3
Sugar—								
1.—Drained	14	.	3	.....	14	3	.....	11
2.—Undrained	2	...	4	.....	2	4	2	...
Tobacco	5	...	1	1	5	2	.....	3
Timber	..	.....	3	...	.....	3	3	. ..
All other articles of merchandise	47	14	93	28	61	121	60	
Total ...	1,210	808	919	86	2,018	1,005	118	1,131

	Tons.
INCREASE.	
Grains—	
(4) Others	41
This increase is owing to greater import of paddy for high price at Azimganj.	
DECREASE.	
Coal	104
This decrease is due to previous stock not being exhausted.	
Cotton piece-goods—	
(1) European	45
This is due to this traffic being carried by steamers plying between Jeagunj and Calcutta.	
Grains—	
(2) Rice	801
This is due to less export from intermediate stations.	
Jute—	
(2) Gunny-bags and cloths	18
This is due to less export of grains.	
Oilseeds—	
(6) Others	45
This is due to less import for dull market.	
Provisions—	
(2) Dried fruits and nuts	15
Owing to less import of cocoanuts.	
Railway plant and rolling-stock	31
This is due to less materials carried during the month.	
Salt	27
This is due to this traffic being carried by boat.	
Sugar—	
(1) Drained	11
Less imported on account of less demand.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

The 27th December 1889.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 21st December 1889, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	*216,540	*2,72,920 0 0	25,51,653 10	6,23,064 3 6	20,811 14 0	9,16,496 7 6	66,276	91,006½	157,282½
Or per mile of railway	...	178 14 6		408 6 11	13 7 1	600 12 6	..	.. ..	...
For previous 24 weeks of half-year	5,743,647	63,58,121 11 0	5,15,93,130 20	1,16,74,556 6 6	3,88,169 9 5	1,84,20,847 10 11	1,582,388½	1,038,839½	2,621,228½
Total for 24 weeks ..	5,959,587	66,31,043 1 0	5,41,44,783 30	1,22,97,620 10 0	4,08,981 7 5	1,93,37,344 2 5	1,648,664½	2 029,846½	3,678,511
COMPARISON.									
Total for corresponding week of previous year	218,724½	2,95,302 3 3	24,51,942 0	6,92,373 3 9	17,552 14 10	10,05,228 5 10	66,236	106,745	173,001
Per mile of railway corresponding week of previous year		193 9 3	.....	453 13 10	11 8 1	658 15 2	..	.. .	.....
Total to corresponding date of previous year	5,801,276½	65,27,214 14 5	5,89,21,207 0	1,25,10,219 12 10	4,32,701 4 2	1,94,79,135 15 5	1,630,408	2,057,901	3,688,309

* The decrease in coaching traffic is due to figures for the corresponding period of 1888 having included earnings on account of troop extra trains

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 22nd December 1888			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	10,05,228	659	1,525½	9,16 496	601	1,525½	3,14,03,641	542	1,525½	3 13,61,099	541	.....	39,742

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 21st December 1889, on 57½ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P			
Total traffic for the week	14,743	8,563 14 0	42,701 30	2,702 4 0	52 13 0	11,318 13 0	1,967	598	2,565
Or per mile of railway	258	149 11 6	746 30	47 3 10	0 14 9	197 14 1	.....	.....	.....
For previous 24 weeks of half-year	324,347	1,80,322 8 0	*10,16,544 30	*54,261 9 0	†1,577 12 3	2,36,141 13 3	37,936½	17,588	55,524½
Total for 24 weeks ...	339,090	1,88 886 6 0	10,59,246 20	56,963 13 0	1,610 9 3	2,47,462 12 3	39,9 3½	18,186	58 089½
Comparison									
Total for corresponding week of previous year	13,490	7,819 1 1	25,675 10	1,744 4 0	47 4 3	9,110 9 4	1,751	643	2,394
Per mile of railway corresponding week of previous year ..	236	127 15 3	449 0	30 7 11	0 13 3	159 4 5	.....	.....	.....
Total to corresponding date of previous year	330,887½	1,81,824 4 2	10,30,731 0	59,301 11 0	1,414 4 9	2,42,540 3 11	45,6 7	17,146	62 813

* Added Mds. 3,310 and Rs. 74 5 0 } on account of supplemental goods and miscellaneous receipts for the last two days of September 1889.
† Ditto „ 579 3 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs	Rs.	Rs.
57½	9,111	159	57½	11,319	198	57½	3,56,405	124	57½	*3,61,403	126	4,998	.....

* Added Rs. 654 on account of supplemental goods and miscellaneous receipts for the last two days of September 1889.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 21st December 1889, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,583	3,804 12 0	7,814 30	324 1 0	6 8 0	4,135 5 0	900	180	1,080
Or per mile of railway	.....	171 0 0	.....	14 9 0	0 4 8	185 13 8	....	... ..	.. ..
For previous 24 weeks of half-year	423,015	1,04,797 6 0	*2,15,847 20	*6,468 0 0	†142 11 6	1,11,408 1 6	22,058	1,932	24,090
Total for 25 weeks ...	439,498	1,08,602 2 0	2,23,662 10	6,792 1 0	149 3 6	1,15,543 6 6	22,958	2,112	25,070
Comparison.									
Total for corresponding week of previous year	15,054½	3,652 4 3	7,785 20	283 9 0	6 13 3	3,942 10 6	906	62	968
Per mile of railway corresponding week of previous year ..	. .	154 2 4	..	12 11 11	0 4 11	177 3 2	.	...	..
Total to corresponding date of previous year	412,917	1,09,461 15 5	1,27,066 10	5,001 6 0	168 11 6	1,14,632 0 11	22,078	1,210	24,288

* Added maunds 5,714-30 and Rs. 52-8-0 } on account of supplemental goods and miscellaneous receipts for the last two days of September 1889.
† Ditto „ 0-4-0 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,943	177	22½	4,135	186	22½	2,00,979	238	22½	*1,98,176	234	... ..	2,803

* Added Rs. 53 on account of supplemental goods and miscellaneous receipts for the last two days of September 1889.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 14th December 1889, on 747 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-mile run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	141,110	73,800 0 0	7,27,140 0	1,99,040 0 0	18,170 0 0	2,91,670 0 0	21,680	38,818	60,498
Or per mile of railway ...	189	99 0 0	973 0	267 0 0	†4 0 0	370 0 0	.....	.....	.....
For previous 23 weeks of half-year	3,216,534	15,04,720 0 0	1,46,13,400 0	37,09,882 0 0	3,78,545 0 0	*55,92,947 0 0	509,406	671,973	1,181,379
Total for 24 weeks .	3,357,644	15,78,520 0 0	1,53,40,540 0	39,09,322 0 0	3,96,715 0 0	58,84,617 0 0	531,086	710,791	1,241,877
COMPARISON.									
Total for corresponding week of previous year .. .	124,342	63,290 0 0	6,07,282 0	1,60,365 0 0	17,025 0 0	2,41,280 0 0	21,266	32,097	53,363
Per mile of railway corresponding period of previous year ..	185	94 0 0	902 0	238 0 0	†4 0 0	336 0 0	.....	.....	.....
Total to corresponding date of previous year	3,283,447	14,78,430 0 0	1,47,63,313 0	37,89,219 0 0	4,03,729 0 0	56,71,434 0 0	496,918	733,869	1,230,787

* Audited up to week ending 26th October 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 15th December 1888.			Receipts for week ending 14th December 1889.			Total receipts from 1st April 1888 to 15th December 1888.			Total receipts from 1st April 1889 to 14th December 1889.			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,41,280	358	747	2,91,670	390	673	76,26,906	306	721	*80,20,088	301	3,93,182	..

* Audited up to week ending 26th October 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 14th December 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,370	10,830 0 0	30,470 0	2,360 0 0	290 0 0	13,470 0 0	3,666	2,066	5,672
Or per mile of railway . ..	203	87 0 0	244 0	19 0 0	2 0 0	108 0 0	.....	.....	.....
For previous 23 weeks of half-year	*634,271	2,21,167 0 0	*13,21,440 0	1,19,767 0 0	5,073 0 0	*3,46,007 0 0	82,481	52,306	134,787
Total for 24 weeks ...	659,641	2,31,997 0 0	13,51,910 0	1,22,127 0 0	5,363 0 0	3,59,477 0 0	86,087	54,372	140,459
COMPARISON.									
Total for corresponding week of previous year	24,466	10,028 0 0	47,023 0	2,885 0 0	45 0 0	12,958 0 0	3,666	2,066	5,672
Per mile of railway corresponding period of previous year ..	196	80 0 0	383 0	23 0 0	1 0 0	104 0 0	.....	.....	.. ...
Total to corresponding date of previous year	642,229	2,12,684 0 0	14,01,005 0	1,38,125 0 0	1,846 0 0	3,52,655 0 0	86,712	59,715	146,427

* Audited up to week ending 26th October 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 15th December 1888.			Receipts for week ending 14th December 1889.			Total receipts from 1st April 1888 to 15th December 1888.			Total receipts from 1st April 1889 to 14th December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,958	104	125	13,470	108	125	5,14,637	112	125	*5,39,325	117	24,068	.....

* Audited up to week ending 26th October 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 14th December 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	18,390	5,900 0 0	54,580 0	4,500 0 0	120 0 0	10,520 0 0	2,547	2,281	4,828
Or per mile of railway	214	69 0 0	635 0	52 0 0	1 0 0	122 0 0	.....	.....	.....
For previous 23 weeks of half-year	348,940	1,14,870 0 0	6,64,115 0	56,668 0 0	5,864 0 0	*1,77,403 0 0	57,576	17,856	75,432
Total for 24 weeks ...	367,330	1,20,770 0 0	7,18,695	61,168 0 0	5,984 0 0	1,87,922 0 0	60,123	20,137	80,260
Comparison.									
Total for corresponding week of previous year	14,500	5,178 0 0	18,605 0	1,905 0 0	170 0 0	7,253 0 0	2,510	594	3,104
Per mile of railway corresponding period of previous year .	169	60 0 0	216 0	22 0 0	2 0 0	84 0 0	.....	.....	.....
Total to corresponding date of previous year	340,205	1,07,796 0 0	3,61,752 0	28,947 0 0	4,553 0 0	1,41,296 0 0	60,354	15,744	75,998

* Audited up to week ending 26th October 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 15th December 1888.			Receipts for week ending 14th December 1889.			Total receipts from 1st April 1888 to 15th December 1888.			Total receipts from 1st April 1889 to 14th December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,253	84	86	10,520	122	80	2,06,287	65	86	*2,63,089	83	56,802	.....

* Audited up to week ending 26th October 1889.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 30th November 1889	8,477
Corresponding week last year	10,829
Decrease	2,352
Receipts from 1st July to 30th November 1889	2,42,105
From 1st July to 1st December 1888	2,64,200
Decrease	22,095

Compared with 1887, there is an increase of Rs. 21,163 for the corresponding period.

	Miles.
Miles open week ending 30th November 1889	51
Corresponding week last year	51

	Rs. A. P.
Receipts per mile open week ending 30th November 1889	166 3 5
Corresponding week last year	212 5 6
Decrease	46 2 1

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 7th December 1889	11,451
Corresponding week last year	9,441
Increase	2,010
Receipts from 1st July to 7th December 1889	2,53,856
From 1st July to 8th December 1888	2,73,641
Decrease	19,785

Compared with 1887, there is an increase of Rs. 23,735 for the corresponding period.

	Miles.
Miles open week ending 7th December 1889	51
Corresponding week last year	51

	Rs. A. P.
Receipts per mile open week ending 7th December 1889	224 8 6
Corresponding week last year	185 2 0
Increase	39 6 6

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No. 2 of 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 3452A.

GENERAL.—*The 2nd January* 1890.—Mr. J. Windsor, Assistant Magistrate and Collector, Chumparun, is appointed to have charge of the Bettiah sub-division of that district.

The order of the 31st December last, posting Moulvie Mahammad Habibullah, Officiating Deputy Magistrate and Deputy Collector, Midnapore, to the Sudder station of the district of Khoolna, is cancelled.

The 4th January 1890.—Mr. H. F. J. T. Maguire, Officiating Magistrate and Collector, Burdwan, acted in the first grade of Joint-Magistrates and Deputy Collectors from the 1st to the 13th December 1889, both days inclusive.

Mr. Maguire was employed at the Sudder station of the district of the 24-Pergunnahs as Joint-Magistrate and Deputy Collector from the forenoon of the 5th to the afternoon of the 12th December 1889.

The 6th January 1890.—Mr. C. A. Radice, who has recently been appointed to be a member of the Covenanted Civil Service, is appointed to be an Assistant Magistrate and Collector in the Presidency Division, and is posted to the Sudder station of the district of Moorshedabad.

The 7th January 1890.—Mr. H. Lee, Officiating Magistrate and Collector, is allowed leave for eighteen days, under article 291 of the Civil Service Regulations, with effect from the 14th December 1889.

POLICE.—*The 7th January* 1890.—Mr. A. R. G. Hampton, Officiating Assistant Superintendent of Police, Mymensingh, is allowed leave for seven days, under article 273(*a*) of the Civil Service Regulations, with effect from the 27th ultimo.

JAILS.—*The 7th January* 1890.—The services of Surgeon-Major A. S. Lethbridge, Inspector-General of Jails, are placed temporarily at the disposal of the Government of India in the Home Department.

REGISTRATION.—*The 6th January* 1890.—Moulvie Muhammad is appointed to be Rural Sub-Registrar of Iswargunge, in the district of Mymensingh, *vice* Moulvie Mahomed Khurshed.

Munshi Tamizuddin Ahmad is appointed to be Rural Sub-Registrar of Nattore, in the district of Rajshahye, *vice* Moulvie Wakiluddin Ahmad, transferred.

Baboo Raghunath De is appointed on probation for six months to be Joint Sub-Registrar of Raghunathpore, in the district of Midnapore.

The 7th January 1890.—Baboo Monmotho Coomar Bose, Deputy Magistrate and Deputy Collector, Beerbhoom, is also appointed to be Sub-Registrar of Sooree, with effect from the 21st November 1889.

Moulvie Syed Mahammad Faniq is appointed, on probation for six months, to be Rural Sub-Registrar of Bihipore, in the district of Bhagulpore.

Munshi Aminuddeen, Rural Sub-Registrar of Daudkandi, in the district of Tipperah, is appointed to be Rural Sub-Registrar of Chandpore in the same district, *vice* Moulvi Mahammad Ibrahim Hossein, deceased.

Moulvi Bazlur Rahman is appointed to be Rural Sub-Registrar of Daudkandi, in the district of Tipperah.

The following notification is republished from the *Assam Gazette* :—

No. 419.—*The 23rd December* 1889.—Mr. G. A. Patten, Assistant Superintendent of Police, whose services were placed at the disposal of the Chief Commissioner, in Home Department notification No. 836, dated the 5th December 1889, is posted to Dibrugarh and appointed to have charge of the Civil Police of the Lakhimpur district.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT,—(FORESTS.)

NOTIFICATION.

The 6th January, 1890.—With reference to the notification, dated the 22nd October, 1888, proposing the reservation, under section 4 of the Indian Forest Act VII of 1878, of the Ramghur-Sitakund Forest in the district of Chittagong, the Lieutenant-Governor is pleased to appoint Mr. C. G. H. Allen, Covenanted Deputy Collector, to be Forest Settlement Officer, *vice* Baboo Chandra Shekhar Kar, Deputy Magistrate and Deputy Collector.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 6th January, 1890.—Mr. W. H. Lovegrove, who has been appointed by Her Majesty's Secretary of State for India to the Forest Department in Bengal, is appointed to be an Assistant Conservator of Forests of the 3rd grade, and is posted to the Direction Division, Darjeeling.

Mr. Lovegrove reported his arrival in India on the forenoon of the 2nd January, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 7th January, 1890.—With reference to the Government notification, dated the 31st December, 1889, published at page 4, Part I of the *Calcutta Gazette* of the 1st January, 1890 ordering a survey and record of rights of estate No. 1763, in pergunnah Dakhin Shahazpore, and also of certain lands in estate No. 1764, in the district of Backergunge, Baboo Pyari Mohan Bose is appointed to be Revenue Officer, and is hereby vested with the powers of a Settlement Officer, under Rule 1, Chapter VI of the Rules under the Bengal Tenancy Act VIII of 1885, for the said settlements.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 7th January, 1890.—With reference to the Government notification, dated the 31st December, 1889, published at page 4, Part I of the *Calcutta Gazette* of the 1st January, 1890, ordering a survey of estate No. 1764 in the district of Backergunge, the Lieutenant-Governor is pleased to appoint Baboo Pyari Mohan Bose to be the Superintendent of the survey, under section 4 of the Bengal Survey Act V of 1875.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 1st January, 1890.—The following revised rules for the award of Junior and Senior Scholarships are published for general information :—

JUNIOR SCHOLARSHIP RULES.

ONE HUNDRED AND FIFTY-TWO* Government junior scholarships shall be awarded annually at the University Entrance Examination to successful candidates educated at schools in Bengal.

2. The scholarships shall be of three grades—10 of the first grade, carrying monthly stipends of Rs. 20; 47 of the second grade, carrying monthly stipends of Rs. 15; and 95 of the third grade, carrying monthly stipends of Rs. 10.

3. With the sanction of the Director of Public Instruction, a junior scholarship may be held at any one of the affiliated colleges in Bengal which the holder may select. A Government junior scholarship may also be held in the United Kingdom, subject to the conditions of good conduct and satisfactory progress, but not in other provinces of India

4. Each scholarship shall, subject to good conduct, be tenable for two years, provided the holder is certified by the Principal of his College, at the end of the first year, to have made due progress in a collegiate course of instruction.

5. The holder of a junior scholarship in an institution not under the management of Government shall be liable at any time to be examined by two persons appointed by the Director of Public Instruction and approved by the Principal of the College to which he belongs, and, on proof of unsatisfactory progress, to be deprived of his scholarship.

6. No candidate shall be eligible for a scholarship who has not studied for the whole session previous to the examination in the school to which he belongs at the time of presenting himself at the Entrance Examination, unless he has been transferred within that period with the sanction of the Circle Inspector.

7. The scholarships of the first grade shall be awarded to the ten candidates who obtain the highest aggregate marks.

8. The scholarships of the second and third grades shall, subject to future reconsideration, be allotted to the several Commissionerships in the following proportion :—

		Second grade.	Third grade.
Burdwan Division	... ...	6	12
Town of Calcutta	... ...	6	11
Presidency Division	... ...	6	12
Rajshahye ditto	... ...	6*	10*
Dacca ditto	... ...	6	12
Chittagong ditto	... ...	2	6
Patna ditto	... ...	6	12
Bhagulpore ditto	... ...	3	9
Orissa ditto	... ...	4	6
Chota Nagpore ditto	... ...	2	5
	Total ...	47	95

* This includes the two special scholarships—one of the second grade and the other of the third—established in 1879 for the benefit of the Rungpore Zillah School.

9. The Commissioner of the Division, in consultation with the Circle Inspector, will notify in the *Calcutta Gazette*, not later than the 1st September of each year, the number of junior scholarships to be allotted to each district at the ensuing examination. This distribution should be confined to third grade scholarships, those of the second grade being awarded to the best students in the division without reference to districts. Scholarships not taken up in the district or division to which they are assigned may be awarded by the Director of Public Instruction, at his discretion, to deserving candidates from other divisions, special regard being had to the requirements of those parts of the country in which it is considered desirable to stimulate the demand for collegiate education

10. No candidate who is unable to read and write with facility and correctness one of the vernacular languages of Bengal shall be eligible for a junior scholarship.

11. No candidate shall be eligible for a scholarship who does not take up for the Entrance Examination as a second language one of the languages recognized by the University for the First Arts Examination.

12. The holders of scholarships in all Government colleges shall be required to pay the usual monthly fees levied from other students, provided that no scholarship-holder shall be required to pay a higher fee than Rs. 10 a month.

SPECIAL JUNIOR SCHOLARSHIPS FOR MUHAMMADANS.

Twenty scholarships of Rs. 7 a month each, tenable for two years at any college affiliated to the Calcutta University, shall be awarded to Muhammadan students of the Lower Provinces passing the Entrance Examination and failing to obtain any more valuable exhibition.

SPECIAL JUNIOR SCHOLARSHIPS FOR FEMALES.

Three junior scholarships, one of each grade, shall be open annually for competition at the Entrance Examination to female candidates educated in any school in Bengal. They shall be tenable in any collegiate institution approved by the Director of Public Instruction, and shall be awarded on conditions similar to those prescribed for general scholarships.

SENIOR SCHOLARSHIP RULES.

Fifty Government senior scholarships shall be offered annually for competition at the First Examination in Arts to successful candidates educated in any college in Bengal affiliated to the University of Calcutta.

2. These scholarships shall be of two grades—10 of the first grade, carrying monthly stipends of Rs. 25, and 40 of the second grade, carrying monthly stipends of Rs. 20.

3. With the sanction of the Director of Public Instruction, a senior scholarship may be held at any affiliated college in Bengal which may be selected by the holder. A Government senior scholarship may also be held in the United Kingdom, subject to the conditions of good conduct and satisfactory progress, but not in other provinces of India.

4. Each scholarship shall, conditionally on good conduct, be tenable for two years, provided that, at the end of the first year, the holder is certified by the Principal of his College to have made due progress in a collegiate course of instruction.

5. Second-year students alone, *i.e.*, students who present themselves for the First Examination in Arts not more than two years after passing the Entrance Examination, shall be eligible for scholarships.

6. The scholarships of the first grade shall be awarded to the ten candidates who obtain the highest aggregate marks.

7. The forty scholarships of the second grade shall, subject to future reconsideration, be reserved for students at affiliated institutions in different parts of Bengal in the following proportions:—

	Number of scholarships.
Town of Calcutta	10
Presidency Division, outside Calcutta	4
Burdwan Division	8
Rajshahye ditto.	3
Dacca and Chittagong Divisions	7
Patna and Bhagulpore ditto	6
Orissa Division	2
Total ...	40

The scholarships shall be awarded to the candidates from each tract who obtain the highest marks at the examination, and who do not gain scholarships of the first grade, provided that their names appear in the first or second division of the list of passed candidates. Scholarships may, however, be awarded in special cases to candidates from Behar or Orissa who fall below the second division. Scholarships not taken up in the tracts to which they are assigned may be awarded by the Director of Public Instruction, at his discretion, to deserving candidates from other tracts, special regard being had to the requirements of those parts of the country in which it is considered desirable to stimulate the demand for collegiate education.

8. No candidate shall be eligible for a scholarship who has not studied for the whole session previous to the examination in the institution to which he belongs at the time of presenting himself at the First Arts Examination, unless he has been transferred within that period with the sanction of the Director of Public Instruction.

9. The holders of senior scholarships in all Government colleges shall be required to pay the usual monthly fees levied from other students.

SPECIAL SENIOR SCHOLARSHIPS FOR MUHAMMADANS.

Twenty scholarships, tenable for two years—ten of Rs. 10 a month each, and ten of Rs. 7 a month each—shall be awarded on the result of the First Arts Examination to Muhammadans who fail to obtain any more valuable exhibition.

SPECIAL SENIOR SCHOLARSHIPS FOR FEMALES.

Two senior scholarships, one of each grade, shall be open annually for competition at the First Examination in Arts to female candidates educated at any college in Bengal. These scholarships shall be awarded on conditions similar to those laid down for the general senior scholarships, and shall be tenable in any collegiate institution approved by the Director of Public Instruction.

P. NOLAN,
Secretary to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 3453A.

The 6th January 1890.—Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Moulvie Ahmad, Deputy Magistrate, Jessore, to take down evidence in criminal cases in the English language.

Mr. C. A. Radice, Assistant Magistrate and Collector, Moorshedabad, is vested with the powers of a Magistrate of the third class.

The 7th January 1890.—Mr. L. Palit, Assistant Magistrate and Collector, Tipperah, is vested with the powers of a Magistrate of the first class.

Mr. J. Windsor, Assistant Magistrate and Collector, Chumparun, is vested with powers under sections 110, 133, 143, 144, 174, 186, 191 (clauses *a* and *b*) and 524 of the Code of Criminal Procedure.

GRANT OF LEAVE TO MUNSIFS.—*The 17th December* 1889.—Baboo Sheo Sarun Lal, Munsif of Lohardugga, in Chota Nagpur, is allowed leave for two months, under article 369 of the Civil Service Regulations, with effect from the 8th January 1890, or from the date on which he may be relieved.

The 20th December 1889.—Baboo Mati Lal Sinha, Munsif of Khoolna, in the district of Jessore, is allowed leave for three months, viz., sixteen days under article 309 of the Civil Service Regulations, and the remaining period under article 306(*b*) of the same Regulations, with effect from the 6th January 1890, or from the date on which he may be relieved.

The 21st December 1889.—Baboo Mati Lal Haldar, Munsif of Jehanabad, in the district of Hooghly, is allowed leave for eight days, under article 306(*b*) of the Civil Service Regulations, in extension of the leave granted to him on the 8th November 1889.

Baboo Raj Narayan Chakravarti, Munsif of Cutwa, in the district of Burdwan, is allowed leave for 45 days, under article 306(*b*) of the Civil Service Regulations, with effect from the 8th January 1890, or from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 6th January 1890.—It is hereby notified for general information that the head-quarters of the Tajpur Munsifi, in the district of Durbhanga, have been removed from its present site at Tajpur to Samastipur, and that the Munsifi will henceforth be styled the Samastipur Munsifi.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 6th January 1890.—The Lieutenant-Governor sanctions, with effect from the 15th January, the re-establishment of an outpost at Anantapur within the jurisdiction of thana Soroh, and the abolition of the Kontika outpost subordinate to thana Dhamnagar, in the district of Balasore.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—The Lieutenant-Governor sanctions, with effect from the 15th November 1889, the transfer of the undermentioned villages from the jurisdiction of the Bahawa outpost, in sub-division Rajmehal, to that of thana Pakour, in sub-division Pakour, in the district of the Sonthal Pergunnahs—

No.	Name of village.	No. on village.	Name of pergunnah.
1	Byjnathpur	337	Ambar.
	Kilbilpur or Kilbinagar	336	Do.
	Amalpur or Goganpahari	338	Do.
	Kismat Mankupara	339	Kankjole.
5	Jamshirpur	349	Dashazari.
	Shahpur Arazi or Hansrajpur	348	Kankjole.
	Jamshirpur Arazi	351	Dashazari.
	Mankopara Arazi or Keshopur	352	Kankjole.
	Kismat Shahpur	353	Ditto.
10	Hillalpur Arazi	354	Ditto.
	Badseil or Barasil, &c.	358	Ditto.
	Jyrambati	356	Ditto.
	Hillalpur Kismat	331	Ditto.
	Dhansaria	332	Ditto.
15	Arazi Ilaipur Mow. Kismat Jhoti ...	333	Ditto.
	Arazi Mallaipur	334	Ambar.
17	Dubrajpur	335	Do.

NOTE.—In the above list the names given are those of the villages as demarcated and surveyed by the Revenue Survey Department, and as shown in their maps and records.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Third Publication.]

NOTIFICATION.

The 18th December 1889.—It is hereby notified that the Lieutenant-Governor authorizes the extension of the provisions of section 34 of Act V of 1861 to the village of Saidpore, in the district of Rungpore, within the boundaries specified below :—

On the North.—A straight line drawn from the Saidpore Rifle Range to Pendu Ram Boiragy's house.

On the South.—A straight line drawn from East Baboo Para to the village road east of Nanku Haolder's Para.

On the East.—A straight line drawn from Pendu Ram Boiragy's house to East Baboo Para.

On the West.—A straight line drawn from the village road east of Nanku Haolder's Para to the high ground for target practice.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

DECLARATION.

The 6th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the public expense for a public purpose, viz., for construction of a Police outpost under the jurisdiction of the Municipality of Howrah, pergunnah Boro, zilla Hooghly, it is hereby declared that for the above purpose a piece of land measuring, more or less, 2 cottahs 6 chittacks and 15 square feet, bounded on the north by land of Ambica Charan Ghoshal, south by northern drain of Circular Road, east by land of Ambica Charan Ghoshal, and west by land of Ambica Charan Ghoshal, is required within the aforesaid Municipality of Howrah.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 6th January 1890.

No. 1.—Mr. G. Mills, Executive Engineer, fourth grade, temporary rank, has been granted by Her Majesty's Secretary of State for India an extension of six months' furlough.

No. 2.—The following notification, issued by the Government of India, Public Works Department, is republished for information :—

No. 406, the 30th December 1889.—Lala Sheo Nath, Rai Sahib, Assistant Engineer, third grade, State Railways, is promoted to Assistant Engineer, second grade, with effect from the 22nd August 1889.

E. J. MARTIN,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 6th January 1890.

No. 3.—Mr. A. H. C. MacCarthy, Assistant Engineer, passed the Lower Standard Examination in Hindustani on the 16th December 1889.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

[Fifth Publication.]

IRRIGATION.

The 9th December 1889.

No. 442.—*Notification.*—In exercise of the powers conferred on him by section 99 of Act III (B.C.) of 1876, the Hon'ble the Lieutenant-Governor proposes to pass the following rule for the Orissa Canals :—

Beali lands in a five-year lease, if not irrigated, are to be exempted from assessment provided "Beali" is not followed by "sarud" or any other *irrigated* crops in the same year.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—MARINE.

[First Publication.]

NOTIFICATION No. 1Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)
NOTICE TO MARINERS—(No. 1).
BAY OF BENGAL.
BURMA COAST.

The floating light-vessel "Colombo" replaced below Elephant Point.

WITH reference to Notice to Mariners, No. 115, dated the 28th November last, issued by this Office, the Officiating Port Officer of Rangoon has given notice that the floating light-vessel *Colombo* has been replaced off the Spit below Elephant Point, and the schooner *Pharos* removed.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th January* 1890.

[First Publication.]

NOTIFICATION No. 2Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 2).
BAY OF BENGAL.
ORISSA COAST.

Inner bar-buoy adrift.

A TELEGRAPHIC communication has been received from the Collector of Customs, Balasore, that the *inner bar-buoy* has drifted out of position.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th January* 1890.

[Second Publication.]

NOTIFICATION No. 206Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 125).
AFRICA—EAST COAST.
MOZAMBIQUE CHANNEL.

Additional soundings north-eastward of St. Lazarus Bank.

WITH reference to Notice to Mariners, No. 67, dated 2nd July last, issued by this office, the British Admiralty has given notice (No. 403 of 1889) that some further soundings have been obtained by H. M. Surveying Ship *Stork* to the north-eastward of the bank as defined in that Notice, which indicate the existence of either another bank, or of an extension of the slope of the St. Lazarus bank for some 30 miles. No sounding less than 320 fathoms was obtained, but until the ground is more thoroughly searched, vessels should avoid passing over this area to the north-eastward of the St. Lazarus bank.

The soundings obtained are as follows:—

(1) Lat. 11° 55′ S., long. 41° 28′ E. ... ... 320 fathoms
(or 9 miles northward of a depth of 1,080 fathoms previously obtained).
(2) Lat. 11° 48½′ S., long. 41° 35⅜′ E. ... ... 460 fathoms.
(3) Lat. 11° 38½′ S., long. 41° 39½′ E. ... ... 807 ditto.
(4) Lat. 11° 32′ S., long. 41° 41′ E. ... .. 910 ditto.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Second Publication.]

NOTIFICATION No. 207Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 126).

AUSTRALIA—EAST COAST.

INNER ROUTE.

Shoal north-eastward of two isles.

THE British Admiralty has given notice (No. 405 of 1889) of the existence of a coral shoal lying about 1½ miles north-eastward of two isles :—

This shoal, with a depth of 6 fathoms, is 8 cables in length within the 10-fathoms line in a north-east and south-west direction ; from the shoalest part, South Direction island bears N. 18° E., distant 11 miles, and cape Flattery summit N. 76° W., distant $7\frac{7}{10}$ miles.

Position, lat. 15° 0′ S., long. 145° 30′ E.

Also the following information concerning g reef and Sand Bank, lying respectively about 5½ and 7 miles eastward of Two isles :—

g reef, as heretofore charted, does not exist.

Sand bank, now named g reef, is 4 cables in length in an east and west direction, with a width of 2½ cables, it is steep-to, and has a small sandy head near its west extreme which dries 6 feet at low water spring tides ; from this head, cape Flattery summit bears N. 83° W., distant $13\frac{5}{10}$ miles, and South Direction island N. 18½° W., distant $10\frac{8}{10}$ miles.

Position, lat. 15° 0½′ S., long 145° 36′ E.

Unsuccessful search for shoal north-west of Look-out point.

FURTHER information has been received that a shoal spit extends in a north-westerly direction from Look-out Point for a distance of 2¼ miles, having a least depth of 6 feet, with the summit of the point bearing S. 45° E., distant 2 miles ; it is steep-to on its eastern edge, the water deepening quickly from 2 to 6 and 7 fathoms ; on the north-western side it deepens more gradually.

The position heretofore given for the 2¼ fathoms shoal is about 8 cables northward of the extreme of the spit, and depths of 6½ to 7½ fathoms, over even ground were obtained around that spot with no sign of shoal water.

Consequent on the foregoing, it is considered that the *Decapolis* grounded on the spit about 2 miles north-west of Look-out point, and the 2¼ fathoms shoal has been removed from the Admiralty Charts.

NOTE.—Cape Flattery summit in line with the red beacon on Sand cay (about 2½ miles south-east of Look-out point), bearing S. 38° E., leads eastward of the shoal ground off Look-out point ; and end of range in line with Round hill, bearing S. 82° W., leads 4 cables northward of it.

By direction of the Government of Bengal,
E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Second Publication.]

NOTIFICATION No. 208Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 127).

JAPAN.

SIMONOSEKI STRAIT—WESTERN ENTRANCE.

Fixed light on Narusi rock.

THE British Admiralty has given notice (No. 415 of 1889) that on 21st September 1889 a light would be exhibited from the beacon (which has been rebuilt during the present year) on Narusi rock, north side of western entrance to Simonoseki strait :—

The light is a *fixed* white light, visible from the bearing of S. 86°E., through north, to S. 48° W. ; it is elevated 17 feet above high water, and should be seen in clear weather from a distance of three miles.

The beacon, constructed of stone and circular in shape, is painted white.

Position, lat. 33° 54′ 45″ N, long. 130° 54′ 50″ E.

NOTE—The light is kept burning day and night by automatic arrangement without the constant attendance of a keeper. Should the light be extinguished by accident, there may be some delay in re-lighting it.

(*The bearings are Magnetic, and are given from seaward. Variation 4° Westerly in* 1889.)

By direction of the Government of Bengal,
E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Second Publication.]

NOTIFICATION No. 209Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 129).

ARABIAN SEA.

BOMBAY COAST.

"Chaldea Rock" buoy placed in position.

WITH reference to Notice to Mariners, No. 106, dated 26th October last, the Collector of Salt Revenue, Bombay, through the Director of Indian Marine, has given notice that the *Chaldea Rock* buoy was put in its position on the 3rd ultimo.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 28th December* 1889.

[Third Publication.]

NOTIFICATION No. 206Mne.

The 24th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 128).

BAY OF BENGAL.

BURMA COAST.

Position of a water-logged Burmese boat—dangerous to navigation.

A TELEGRAPHIC communication has been received from the Port Officer of Rangoon that the Commander of the Government steamer *Canning* passed a Burmese boat, water-logged, South 55° East, 8 miles from Krishna light-vessel. Ship-masters are cautioned accordingly.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 23rd December* 1889.

JAIL DEPARTMENT.

No. 12.—*The 4th January* 1890.—Assistant Surgeon Kaliprosanna Kumar made over charge of the Dinagepore Jail to Dr. R. M. Blaker on the forenoon of the 6th December 1889.

No. 13.—*The 4th January* 1890.—Assistant Surgeon Debendra Nath Dey made over charge of the Dinagepore Jail to Mr. N. Warde-Jones on the afternoon of the 18th September 1889.

A. D. LARYMORE,
For Inspector-General of Jails, Bengal.

No. 25.—*The 6th December* 1889.—Mr. C. H. C. Sevenoaks made over charge of the Midnapore Jail to Mr. H. M. Owen on the forenoon of the 20th December 1889.

A. S. LETHBRIDGE,
Inspector-General of Jails, Bengal.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 39, *dated the 4th January* 1890.—Assistant Surgeon Jadub Kristo Sen, in medical charge of the Lungleh Hospital, is appointed to be Health Officer, Sitakund Fair, in the Chittagong district.

No. 43, *dated the 4th January* 1890.—Assistant Surgeon Hari Mohun Sen, a Supernumerary at the Presidency, is appointed temporarily to have medical charge of the sub-division at Giridhi, in the Hazaribagh district, during the absence, on leave, of Assistant Surgeon Annada Prosad Mozumdar, or until further orders.

No. 46, *dated the 4th January* 1890.—Assistant Surgeon Nirmul Chunder Gupta, in officiating medical charge of the sub-division at Giridhi, is appointed to have medical charge of the Lungleh Hospital in the Lushai country, *vice* Assistant Surgeon Jadub Kristo Sen, transferred.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

EDUCATION DEPARTMENT, BENGAL.

Prize Essay for Native Ladies.

THE following subject has been selected for Babu Brajamohan Dutt's Prize of Rs. 40 for the year 1889-90:—

"The present condition of Bengali Women."

The conditions for the award of the prize are—

(1) That the competition be open to all educated women, being natives of Bengal, without regard to age.

(2) That the prize be given for an essay, to be written in either Bengali or Sanskrit.

(3) That the essays be sent to the Central Text-Book Committee for adjudication within six months of the date of advertisement.

(4) That each essay be accompanied by the written declaration of the husband parent, or guardian of the competitor that, to the best of his belief, she has received no assistance of any kind, direct or indirect, in writing the essay.

Candidates are requested to send their essays not later than the 30th June 1890, to the Secretary to the Central Text-Book Committee, Office of the Inspector of Schools, Presidency Circle, Calcutta. The envelope containing the essay should be superscribed "Brajamohan Dutt Prize Essay." The name of the successful competitor will be published in the *Calcutta Gazette*.

The winner of the prize in any year may, if she pleases, again compete. If she is adjudged to have sent in the best essay in such subsequent competition, her name will be published in the *Gazette*, but the prize will be awarded to the next eligible candidate.

No prize will be awarded if, in the opinion of the judges, the best essay sent in is not such as to deserve a prize.

A. CROFT,
Director of Public Instruction.

The 28th December 1889.

Examination of Candidates for Pleadership and Mookhtarship in Mofussil Courts subordinate to the High Court.

THE next examination of candidates for Pleadership will be held in the Senate House of the Calcutta University on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

The next examination of candidates for Mookhtarship will be held at Calcutta, Patna, Dacca, Cuttack, Gauhati, and Sylhet on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

Two papers will be set each day for the Pleadership Examination at 10 A.M. and 2 P.M., respectively, and the two papers for the Mookhtarship candidates will be set on the 19th February at the same hours.

Under no circumstances will any candidate be admitted to the examination-room after these hours.

The candidates will be required to produce at the examination extracts from the Register, which will be furnished to them by the District Judge through whom their applications have been sent to the Board of Examiners.

No candidate will be allowed to enter the examination-room with any memoranda or loose papers of any description (with the exception of the extracts abovementioned).

All writing materials will be provided, with the exception of pens, which the candidates must bring with them.

HENRY T. HYDE,
Secy. to the Board of Exmrs. for Pleadership and Mookhtarship.

ORDERS BY THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

The undermentioned Students have passed the Examination for the Degree of M. A.:—

ENGLISH.

CLASS I.

In Order of Merit.

1 Datta, Hirendranath . Presidency College.
2 Ghosh, Jogendrakumar . Dacca College.
3 Khastgir, Hemendralal . Presidency College.
4 Chattopadhyay, Ramananda . . . City College.
5 Muhammad Abbas Ali . Presidency College.
6 Bandyopadhyay, Jyotishchandra . . . Metropolitan Institution.
7 Bal, Sureschandra . . Dacca College.

CLASS II.

In Order of Merit.

1 Kar, Pramathachandra . Presidency College.
2 Maitra, Haridas . . Ditto.
3 Purohit, Gopinath . . Agra College.
4 Bandyopadhyay, Kaliprasanna . . . F. C. of Scotland's Institution and Duff College
5 Das, Abinaschandra . . Presidency College.
6 Raychaudhuri, Tejendranath . . . . Ditto.
7 Kumar, Nrityagopal . . Ditto.

CLASS III.

In Order of Merit.

1 Ghosh, Bipinbihari . . Presidency College.
2 Mukhopadhyay, Gopalchandra . . . Metropolitan Institution.
3 Basu, Nityakrishna . . Ditto.
4 Sarkar, Sureschandra City College.
5 Chattopadhyay, Hemchandra . . . . F. C. of Scotland's Institution and Duff College.
6 Set, Nibaranchandra . Presidency College.
7 Bandyopadhyay, Purnachandra . . . General Assembly's Institution.
8 Mukhopadhyay, Debkisor . Metropolitan Institution.
9 Sen, Akshaykumar . . Dacca College.

MATHEMATICS.

CLASS I.

In Order of Merit.

1 Majumdar, Upendralal . Presidency College.
2 Bandyopadhyay, Haranchandra . . . Ditto.

CLASS II.

In Order of Merit.

1 Mukhopadhyay, Asutosh . Presidency College.
2 Mallik, Matilal . . . Ditto.
3 Chattopadhyay, Jyotiprasad Ditto.
4 Bhattacharyya, Munindranath . . . . Ditto.

CLASS III.

In Order of Merit.

1 Bandyopadhyay, Rakhalmohan . Presidency College.
2 „ Saradaprasad . General Assembly's Institution.

LATIN.

CLASS I.

Wheeler, E. M. . . . Bishop's College.

SANSKRIT.

CLASS II.

In Order of Merit.

1 Ray, Satischandra . . Sanskrit College.
2 Adhikari, Satkari . . Ditto.

CLASS III.

In Order of Merit.

1 Chakrabarti, Sitalchandra . Sanskrit College.
2 Lahiri, Paresnath . . Teacher.

PERSIAN.

CLASS I.

Zahadur Rahim Zahid . Private Student.

CLASS II.

Syed Shamsul Huda . Private Student.

HISTORY.

CLASS I.

Sen, Binayendranath . . General Assembly's Institution.

CLASS III.

In Order of Merit.

1 Bandyopadhay, Atulkrishna City College.
2 Chandra, Rajchandra . Presidency College.
3 Nehal Chand . . . Agra College.

MENTAL AND MORAL PHILOSOPHY.

CLASS I.

In Order of Merit.

1 Chattopadhyay, Rakhaldas Presidency College.
2 Sen, Mohitchandra . . Ditto.
3 Gupta, Jnanendranath . Ditto.

CLASS II.

In Order of Merit.

1 Sinha, Birchandra . . Teacher.
2 Kundu, Gopikrishna . . Metropolitan Institution.

CLASS III.

Basu, Hariprasad . . Metropolitan Institution.

NATURAL AND PHYSICAL SCIENCE.

(A) CHEMISTRY.

CLASS I.

In Order of Merit.

1 Bhaduri, Kulabhushan . Private Student.
2 Bandyopadhyay, Manmohan . . . . Presidency College.
3 Bhattacharyya, Haripada . Ditto.

CLASS II.

In Order of Merit.

1 Basu, Basantakumar . Presidency College.
2 Sarkar, Syamlal . . Ditto.
3 Bhattacharyya, Kshirodprasad . . . . Ditto.
4 Ray, Annadamohan . . Ditto.
5 Datta, Debendranath . Ditto.

CLASS III.

Datta, Srischandra . . Presidency College.

(B) PHYSICS.

CLASS II.

In Order of Merit.

1 Ray, Mohinimohan . . Presidency College.
2 „ Satischandra . . Ditto.
3 Ghosh, Rasiklal . . Ditto.

(E) PHYSIOLOGY AND ZOOLOGY.

CLASS II.

In Order of Merit.

1 Sarkar, Nilratan . . M. B.
2 Ghosha, Bhupendra Sri . Presidency College.

CLASS III.

Mitra, Nareschandra . General Assembly's Institution.

(F) GEOLOGY AND MINERALOGY.

CLASS III.

Basu, Sasibhushan . . City College.

CHARLES H. TAWNEY,
Registrar.

SENATE HOUSE,
The 26th December, 1889.

High School Examination, 1889.

NAMES of the candidates who passed in all the compulsory subjects at the Final Examination of High Schools held in December 1889—

First Division.

1.	Jocelyne Koch	...	St. Teresa's School.
2.	Ida Coello	...	Loretto High School, Entally.
3.	Ida Fink	...	La Martinière for Girls, Calcutta.

Second Division.

1.	Effie Coello	...	Loretto High School, Entally.
2.	Florence Pereira	...	Loretto High School, Dhurrumtollah.

A. M. NASH,
Inspector of European Schools, Bengal.

CALCUTTA, *the 2nd January* 1890

NOTIFICATIONS OF THE BOARD OF REVENUE

No. 1594B.

NOTICE is hereby given that the Second Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Monday, the 3rd February 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th February 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th February 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th February 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the year 1890 about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 3rd March	1890	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,	...	2,250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	22,500	25,000	47,500

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 30th December* 1889.

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 31st December 1889

Description of Salt.	Government golahs.	Private golahs	Afloat.	Total.
	Mds.	Mds	Mds.	Mds.
Liverpool Punga	8,96,716	.....	3,39,409	12,36,125
Bombay Kurkutch	15,843	.....	.. ...	15,843
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	7,28,556	.....	82 213	8,10,769
Aden Kurkutch	88,764	.....	50,213	1,38,977
Hamburg salt	10,311	.....	1,18,681	1,28,992
Total ..	17,40,190	.....	5,90,516	23,30,706

By order of the Board of Revenue, L. P.,
J. Scobell Armstrong, *Collector of Customs.*

Custom House, Calcutta, *the 7th January* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

It is hereby notified for general information that the following gentlemen have been elected at the recent general elections as members of the several Local Boards in the district of Khulna :—

Local Boards	Thanas.	Names of members elected.
Sudder ...	Khulna ...	Baboo Debendra Nath Sen.
		„ Trailakhanath Chatterjee.
		„ Prasanna Kumar Singh.
	Batyaghatta ...	Baboo Kanja Behari Chakravarty.
	Paikgatchha ...	Baboo Jogendra Nath Mittra.
		„ Peari Mohon Banerjee.
	Dumuria ...	Baboo Gadadhur Ghosh.
		„ Basanta Kumar Haldar.
Bagirhat ..	Bagirhat ...	Baboo Gobinda Chundra Mittra.
		„ Aswini Kumar Roy Choudhury.
		Kazi Safiuddin.
		Baboo Fani Bhusan Neogi.
	Rampal ...	Baboo Anango Mohon Roy Choudhury.
	Morrellgunge ...	Baboo Krishto Chunder Ghosh.
	Mollahat ...	Baboo Kalinath Roy.
Satkhira ...	Satkhira ...	Baboo Upendra Nath Bose.
		„ Rajendra Nath Choudhury.
		Meer Mohammud Ismail.
	Assasoony ...	Baboo Brojo Nath Sadhukhan.
	Kaligunge ...	Baboo Lakhan Chundra Roy.
		„ Khettra Krishto Bhonjo Choudhury.
		„ Chintamoni Bhonjo Choudhury.
	Kalarsa ...	Baboo Joygopal Mazumdar.
		Shaik Jochimuddin Sirdar.
	Magura ...	Baboo Sital Chundra Chattarji.

A. Smith, *Commissioner.*

Commr.'s Office, Presy. Divn., Calcutta, *the 31st December* 1889.

NOTIFICATION.

It is hereby notified for general information that at an election held under section 27 of Act III (B.C.) of 1884, on December 30th, 1889, in Ward No. III of the Sherepore Municipality, in the district of Bogra, Baboo Binode Behary Shaha, who ceased to be a Commissioner under section 20 of the Municipal Act, has been re-elected a Commissioner.

Hari Mohan Chandra, *For Commissioner.*

Dated Julpigoree, the 4th January 1890.

NOTIFICATION

The 2nd January 1890.—It is hereby notified for general information that at the bye-election held under section 27, Act III (B.C.) of 1884, in Ward No. I of the Bhagulpore Municipality on the 20th December 1889, Baboo Kanai Lal Singha was elected to be a Municipal Commissioner in the place of Baboo Nund Lal Misser, deceased.

C. N. SINGH, *for Offg. Commissioner.*

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 25th November last in Ward No. I of the Joynagore Municipality, Baboo Kedar Nath Dutta was duly elected Commissioner for that Ward in the place of Baboo Bhoopendra Narain Dutta, who has ceased to be a Commissioner for not attending six consecutive meetings.

A. BHATTACHARJEE, *Personal Assistant, for Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the* 31*st December* 1889.

NOTIFICATION.

IT is hereby notified for general information that the Commissioners of the Rungpore Municipality at a meeting held on 30th November 1889 have appointed the undermentioned gentlemen as members of the Managing Committee for the Mahigunge and Dhap Dispensaries (class II) in Rungpore under municipal management:—

For the Mahigunge Dispensary.

(1) Baboo Janoki Ballav Sen.
(2) Dr. Mazammal.
(3) Baboo Tarini Prosad Bhattacharjee.
(4) ,, Prosunno Nath Chowdhuri.

For the Dhap Dispensary.

(1) Dr. Chandra Kanta Bose.
(2) Baboo Kamakhya Charan Mukerjee.
(3) ,, Prosunno Kumar Moitra.
(4) ,, Prosunno Nath Chowdhury.

E. E. LOWIS, *Commissioner.*

DATED CAMP RAMPORE BEAULEAH, *the* 30*th December* 1889.

NOTIFICATION.

IT is hereby notified for general information that Moonshi Bhikari Lal is appointed to be a Member and Secretary of the Burhurwa Dispensary Committee in the district of Chumparun, *vice* Moonshi Kandhji Sahoy, retired.

JOHN BOXWELL, *Offg. Commissioner*

DATED BANKIPORE, *the 4th January* 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following order, issued by the Government of India, in the Home Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION—EDUCATION.

The 1st January 1890.

No. 1.—The Governor-General in Council has been pleased to appoint the Hon'ble Dr. Gooroo Dass Banerjee to be Vice-Chancellor of the University of Calcutta in succession to the Hon'ble Sir W. C. Petheram, KT., Q.C., resigned.

A. P. MACDONNELL,
Secretary to the Govt. of India.

INDIAN EMPIRE.

NOTIFICATION.

Fort William, the 1st January 1890.

No. 1*I. E.*

HIS EXCELLENCY THE GRAND MASTER OF THE MOST EMINENT ORDER OF THE INDIAN Empire is pleased to announce that Her Majesty the Queen and Empress of India has been graciously pleased to make the following appointments to the said Order :—

To be Companions.

* * * * * * *

Brigade-Surgeon George King, M.B., F.R.S., Indian Medical Service, Superintendent of the Royal Botanical Gardens, Calcutta.

* * * * * * *

Henry Paul Todd-Naylor, Esq., Bengal Civil Service, Deputy Commissioner of the Magwé District, Burma.

By order of the Grand Master,

W. J. CUNINGHAM,
for *Secretary to the Most Eminent Order of the Indian Empire.*

FOREIGN DEPARTMENT.

NOTIFICATIONS.

Fort William, the 1st January 1890.

No. 1*I.*

Her Majesty the Queen and Express of India has been pleased to confer the honour of Knighthood on the undermentioned gentlemen :—

* * * * * * *

Romesh Chunder Mitter, Esq., lately Puisne Judge of the Calcutta High Court.

No. 2*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Maharaja Bahadur as a personal distinction upon—

Maharaja Sir Jotendro Mohun Tagore, K C S I.
Maharaja Kumar Khittish Chunder Roy of Kishnaghur, in the Nuddea district.

No. 3*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Maharaja as a personal distinction upon :—

Raja Mohendro Deo Saont of Athmullik.

No. 4*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Raja as a personal distinction upon—

Baboo Run Bahadur Singh, Zemindar of Ticcaree, in the district of Gya.
,, Jyoti Prosad Gorgu, Zemindar of Maisadul, in the district of Midnapore.

No. 6*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Mahamahopadhyaya as a personal distinction upon—

Pundit Ayodhya Nath Miser Samavedi of Pota, in the district of Mozufferpore.
,, Krishna Singh, Thakur of Bhoar in Tirhoot.
,, Kanhai Lal Jha of Mangraumi, in the district of Durbhunga.

No. 7*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Khan Bahadur as a personal distinction upon—

* * * * * * *

Maulvi Ahmad, Municipal Commissioner for the town of Calcutta.
Saiyid Muhammad Ajmal, Honorary Magistrate of Barh, in the district of Patna.

* * * * * * *

No 9*I.*

His Excellency the Viceroy and Governor-General is pleased to confer the title of Rai Bahadur as a personal distinction upon—

Baboo Mata Din, late Subordinate Judge of Mozufferpore, in the Bengal Presidency.
,, Nundo Kishore Das, Assistant Superintendent of the Tributary Mehals of Orissa.
,, Kali Podo Mukherjea, Personal Assistant to the Commissioner of Orissa.

* * * * * * *

W. J. CUNINGHAM,
Offg. Secy. to the Govt. of India.

The following orders, issued by the Government of India, in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 1st January 1890.

VOLUNTEER CORPS

APPOINTMENTS.

No. 15.—*Calcutta Naval Volunteers*—

Mr. Robert Bushby to be Chief Engineer, with effect from the 30th December 1889.

Mr. William B. Steel ... ...
,, Alfred Falconer ... ...
,, John Jamieson Muir ... ...
,, Sydney Lynch ... ...
,, Francis Lamount ...
,, George Houston Russell ...
,, Alexander McGregor ... ...

} To be Engineers, with effect from the 30th December 1889.

No. 16.—*Cossipore Artillery Volunteers*—

Mr. Stewart McPherson to be Second Lieutenant, *vice* Gore-Browne, transferred to the Great Indian Peninsula Railway Volunteer Rifle Corps.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

ERRATUM.

The 31st December 1889.—In the Notification, dated 1st December 1889, published at page 266, Part IB, of the *Calcutta Gazette* of the 4th idem, appointing Mr. Perry to be a Commissioner of the Purneah Municipality in the district of Purneah, for "R. C. C. P. Perry," read "R. C. P. Perry."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 4th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Rajkrishna Mookerjee and Munshi Bichak Lal to be Commissioners of the Jhaldah Municipality in the district of Manbhoom, *vice* Baboos Sri Nath Banerjea and Behari Lal Choudhury, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 6th January 1890.—It is hereby notified that, under section 11, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of the 24-Pergunnahs :—

Local Board of	Names of members.
Alipore	Rai Prosonno Coomar Banerjee Bahadoor. Mr. R. D. Mehta. Baboo Nobin Chand Ghose. „ Surja Coomar Roy Chowdhry. „ Asutosh Biswas.
Diamond Harbour ...	„ Shama Churn Patitunda. Munshi Ashraf Ali Khan. Baboo Grish Chandra Mandle. „ Mohendra Nath Mukerjie.
Barasct	„ Kedar Nath Banerjie. „ Khettra Gopal Das. „ Mohendra Nath Ghoshal.
Basirhat	Baboo Kunja Behari Chatterjie. Moulvie Golam Kasseem. Baboo Sukrity Churn Roy.
Barrackpore	Baboo Ambica Churan Mukerjie. Munshi Jehan Ali Shaikh.
Dum-Dum	Baboo Kristo Kisore Roy. „ Baikunta Nath Chukervertty.

2. The Lieutenant-Governor is also pleased to appoint the following gentlemen, under section 10 of the Act, to be members of the Local Boards mentioned against their names :—

Name of Local Board.	Names of members.
Alipore	Mr. Cowasjee Eduljee.
Basirhat	Munshi Jehaluddin Mondle. Baboo Umesh Chundra Santra.
Dum-Dum	Baboo Prya Nath Chuckraverty. Munshi Ibrahim Mondle. Baboo Brojo Nath Ghose.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—It is hereby notified for general information that, in exercise of the power vested in the Local Government by section 351 of Act III (B.C.) of 1884, and on the recommendation of the Commissioners of the Kurseong Municipality, made at a meeting, the Lieutenant-Governor confirms the bye-law set forth below, which has been framed by the Commissioners of the said Municipality under section 350 of the said Act.

BYE-LAW.

Any person who disobeys an order passed by the Commissioners under the provisions of section 236 of Act III (B.C.) of 1884, shall be liable to a penalty not exceeding Rs. 25.

H J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—It is hereby notified for general information that the Lieutenant-Governor intends, in the exercise of the power vested in the Local Government by section 221 of Act III (B.C.) of 1884, and in accordance with the recommendation of the Commissioners of the Cutwa Municipality, in the district of Burdwan, made at a meeting, to extend the provisions of Part IX of the said Act to the above Municipality, and to sanction the levy of a fee under section 86(*f*), for the cleansing of latrines therein, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 7th January 1890.—In paragraph 2 of the notification, dated the 29th November 1889, published at page 266, Part IB of the *Calcutta Gazette* of the 4th December 1889, containing the names of the members of the Local Boards in the district of Patna, *for* Kazi Sayad Mohamad Ismail, an appointed member of the Barh Local Board, *read* Kazi Sayad Mohamed Afzal.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—It is hereby notified that, under section 9, Act III (B.C.) of 1885, the following gentlemen have been elected members of the Local Boards in the district of Bankoora :—

Local Boards.	Thana for which elected.	Names of members.
Bankoora ...	Bankoora ...	Baboo Krishna Govind Goswami. „ Maties Chandra Banerjea.
	Onda ...	Baboo Ram Govinda Mukerjee.
	Gangajalghati ...	Baboo Mahendranath Banerjea. „ Basanta Kumar Neogi.
	Raipore ...	Baboo Kalipada Chatterjea. „ Soron Chandra Pal.
	Khatra ...	Baboo Kanti Chundra Banerjea.
Bishenpore ...	Bishenpore ...	Baboo Beni Madhub Banerjea. „ Gora Chand Goswami.
	Sonamukhi ...	Syed Fuzler Rahaman. Baboo Ram Keshab Hazra.
	Kutalpore ...	Baboo Haran Chundra Mukerjea.
	Indas ...	Baboo Choudhury Mohamed Majaman.

It is hereby notified that, under section 11, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of Bankoora :—

Local Boards.	Names of Members.
Bankoora ...	The Senior Covenanted or Uncovenanted Deputy Collector for the time being, *ex-officio*. Baboo Banamali Dutta. „ Gogan Lal Pathak. „ Nadiar Chand Roy.
Bishenpore ...	„ Kailash Chandra Chatterjee. Chowdhry Mahaed Rahamen. Baboo Natabor Sircar.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—It is hereby notified that, under section 9, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the Local Boards in the district of Burdwan :—

Local Board of	Thana for which elected.	Names of members.
Burdwan ...	Burdwan ...	Baboo Annada Prasad Mookerjee. Munshi Fazle Rabbi.
	Satgachia ...	Baboo Nalinaksha Bose. „ Sris Chundra Chowdhry.
	Jamalpore ...	Baboo Ashutosh Mookerjee.
	Bood-Bood ...	Baboo Bunwarilall Hali.
	Ausgram ...	Baboo Dabendra Chundra Chatterjee.
	Sahebgunge ...	Baboo Radhagobind Mundle.
	Roynah ...	Baboo Upendra Chandra Mookerjee.
	Khandghose ...	Chowdhry Afzal Rabbi.
Culna ...	Culna ...	Baboo Mohendra Nath Mullik. „ Narendra Nath Borat.
	Purbasthaly ...	Baboo Nrisingha Ram Chuckerbati. „ Satyendra Nath Chowdhry.
	Montessur ...	Baboo Annada Chundra Das. „ Purusothum Bose.
Cutwa ...	Cutwa	Baboo Brojendra Nath Sen. „ Ashutosh Chowdhry.
	Ketugram ...	Baboo Kedarnath Banerjea. „ Radhica Prosad Sing.
	Mongulcote ...	Munshi Motiur Rahman. Baboo Jodunath Mookerjea.
Raneegunge ...	Raneegunge ...	Baboo Troylakhyanath Roy.
	Assensole ...	Baboo Saroda Prosad Chuckerberti. „ Durga Dass Misra.
	Kanksa ...	Baboo Chunilal Goswami. „ Kulada Prosad Mookerjea.

2. The following gentlemen are appointed, under section 11 of the Act, to be members of the above Local Boards :—

Local Board of	Names of members.
Burdwan	Munshi Golam Asduq. Baboo Jagabandhu Mitra, L.M.S. Syed Sudder-uddin Ahmed. Baboo Kedar Nath Dutta. Deputy Inspector of Schools, *ex-officio*.
Culna	Baboo Mohendranath Singh. „ Soshi Bhuson Pal. „ Tara Das Bhattacharjee.
Cutwa	Baboo Gopinath Gupta. „ Radha Raman Gangooly. Syed Safi Ali Hossain.
Raneegunge	Mr. C. Earfe. „ J. Doyle. Kumar Dakhineswar Malia.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 4th January 1890.—Whereas it appears to the Licutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Furreedpore Municipality for a public purpose, viz., for the excavation of a tank to be called the Jubilee tank in mouzah Kamlapur, otherwise known as Jhiltuli Kalibari, in the town of Furreedpore, pergunnah Sherdia, zillah Furreedpore, it is hereby declared that for the above purpose a piece of land measuring, more or less, 11 beegahs of standard measurement, is required. The land is bounded on the North by the public road; on the East by the house of Kamini Kumar Mukerjee, Sasanka Mohan Mukerji and Kailash Chandra Dutt; on the South by a khal and the pucca house of the late Ishan Chandra Majamdar; and on the West by the public road, the loan office, and the house of Ishan Chandra Maitra.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bankoora, will be put up to sale at the Bankoora Collectorate on 13th January 1890, corresponding 1st Magh 1296 B S.

The purchasers will be subject to the following conditions of sale:—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*.—If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale:—

Number on the district roll	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Remarks.
1022	Sadistar Puraton Rastab, pergunnah Bishenpore.	A R. P. S YD S FT. S.IN. 1 2 14 11 4 72	Rs A. P. 4 13 0	

Bankoora Collectorate, the 7th December 1889.

W. V. G. Tayler, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 8th January 1890, corresponding with 25th Pous 1296 B.S., for the kist ending with 28th September 1889, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1408	Abu Mahamud taluq, pergunnah Bozergomedpur.	2,965 4 1	.....	6a. 1½g. 2kts. Ijmali share.	Lal Mahomed and others.	1,127 3 5½	.....	61 2 10½
1416	Bancharam Basu taluq, pergunnah Bozergomedpur, hissa 8 annas.	1,550 5 3	.....	2a. Ijmali share ...	Jogodiswari Chaudhurain.	190 9 8	.....	52 14 9
1445	Durgapur Toar, pergunnah Bozergomedpur.	820 4 10½	.....	10a. Ijmali share ...	Dakhina Kumar Roy Choudhury and others.	513 11 0½	.....	60 11 11½
1478	Gouri Kanta and Radha Kanta Bhattacharji taluq, pergunnah Bozergomedpur.	596 5 4	.....	6a. 2½g. Ijmali share...	Jogodiswari Chaudhurain.	228 4 7	.....	55 14 10½
1487	Jiban Krishna Sen, Hari Krishna Sen, Kamal Krishna Sen, Gobinda Deb Roy, Pran Manikya Chandra Roy, Durga Narayan Roy, and Mirtunjay Mukerjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½kt. Ijmali share.	Jogodiswari Chaudhurain and others.	978 13 0½	.....	174 3 11
1578	Panioty Alexander taluq, pergunnah Bozergomedpur.	4,833 12 0½	.....	2a. Ijmali share ...	Ditto ditto ...	604 3 2½	.....	179 5 1½
1585	Radha Krishna Roy, Haranandu Roy, Kali Dass Sidhanta taluq, pergunnah Bozergomedpur.	2,436 10 10	.....	5a. 14½g. 1½kt. Ijmali share.	Ditto ditto ...	874 11 7	.....	215 4 8½
1628	Ramna Homna Toar Mohamed Safi taluq, pergunnah Bozergomedpur.	9,487 10 8	.....	8a. 15½g. 19 15 6½ 2kts. Ijmali share.	Golam Ahad Chowdhuri and others.	10,676 12 1	.....	2,044 15 4½
1633	Ram Raju Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ...	Jogodiswari Chaudhurain.	257 12 2½	.....	76 8 7
1633	Ditto ditto ...	2,062 2 11½	.....	3a. share under separate account.	Taramoni Debya ...	366 10 7	.....	129 12 10
1651	Ramjan Bibi, Farjana Bibi and Saduruddin Kazi taluq, pergunnah Bozergomedpur.	565 6 7½	.....	2a. share under separate accounts.	Rahamjan Bibi ...	70 10 10	.....	14 14 8
1721	Pergunnah Chandra Dip, &c., hissa 2a. 13½g. 3kts.	13,916 5 10	.....	3a. 13½g. 1kt. share under separate account.	Mr. C. Panioty, executor to the estate of Mr. Theodaras Constantine Panoty and others.	3,189 2 9	.....	1,173 3 1
1722	Pergunnah Ditto, hissa 2a 16g 1kt.	14,464 10 1½	.....	Ditto.	Ditto	3,314 13 0	.....	2,416 15 9
1725	Mouzah Chikni-Kandi, hissa 8½a., pergunnah ditto	3,382 8 1	.....	6a 17½g 2kt. Ijmali share.	Kali Mohan Sen and others.	1,479 8 7	.....	24 3 9
1727	Ditto 7a pergunnah ditto.	3,815 15 10	.....	5a 2½g 1½ Ijmali share.	Ditto.	903 3 11	.....	40 7 10
1739	Khajeh Nur taluq, hissa 5a 6½g, pergunnah ditto.	2,525 3 1½	Whole estate.	.....	Wazedennessa Khatoon, mother of Mahamud Ismail Khan Chaudhuri and others.	.....	875 11 3	.....
1764	Pergunnah Dakhin Shahabazpur, hissa 3a 1½g 1kt.	8,543 6 8	Ditto.	.....	Mr. A. Thomas and others.	.....	1,745 14 11	.....
1916	Tappeh Habili Silimabad, hissa 10g.	1,045 7 9½	.....	5½a Ijmali share.	Bama Sundari Gupta and others.	359 6 2½	.....	63 11 9
1994	Bishonath Sen taluq, pergunnah Khanja Bahadurnagore.	570 6 11½	Whole estate.	.....	Raj Kumar Sen and others.	.....	142 6 5	.....
2749	Durgagoneswar taluq, pergunnah Utter Shahabazpur.	1,037 11 2	.....	2a. 13½g. 1kt. share under separate account.	Abdul Aziz Chowdhuri	172 15 1	.....	66 2 2
3257	Pergunnah Ratandi Kalikapur, hissa 4 annas.	6,309 6 10	.....	¼a. Ijmali share ...	Jogodiswari Debya ...	197 2 6	.....	30 12 3
3257	Ditto ditto ...	6,309 6 10	.....	15g. share under separate account.	Iswar Chandra Roy ...	295 12 1	.....	80 15 4
3258	Ditto ditto ...	6,309 6 10	.....	6½g. 2kt. Ijmali share	Jogodiswari Debya ...	131 7 4	.....	34 12 7½
3258	Ditto ditto ...	6,309 6 10	.....	¼a. share under separate account.	Iswar Chandra Roy and others.	197 2 9	.....	76 6 3
3263	Pergunnah Sahazadpur, hissa 2a. 10½g.	581 7 6	Whole estate.	.....	Nobin Kishore and others.	.....	182 14 5	.....
3265	Tappeh Abdullapur, hissa 10a. 13g.	2,367 13 0	Ditto ...	.....	Durga Charan Pal and others.	.....	62 2 11	.....
4597	Chur Karnokati, pergunnah Chandradip.	1,226 0 3	.....	3a. 13½g. 1kt. Ijmali share.	Mrs. D. Panioty ...	281 2 5	.....	22 10 9
4757	Chur Madunpura, pergunnah Ratandi Kalikapur.	1,139 0 0	Proprietary right of whole estate.	.....	Rajendra Chandra Roy Chaudhury and others.	.....	639 0 0	.....
5211	Kumaria Chur, hissa 13a. 18½g. 1kt., pergunnah Utter Shahabazpur.	1,169 0 0	.....	3a. 8g. 2kt. 11½til., Ijmali share.	Durga Prasanna Roy and others.	359 5 0	.....	18 6 1½
5211	Ditto ...	1,169 0	.....	1a. 11g. 2kt. share under separate account.	Krishna Kumar Das...	113 14 0	.....	1 1 3

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
5231	Nalgara Chur, pergunnah Dakhin Shahabazpur.	Rs A. P. Revenue— 1,595 13 5 Malikana— 177 5 0 1,773 2 5	Howladari rights of whole estate.	.....	Raj Kumar Bhaduri ..	Rs. A. P.	Rs. A. P 1,684 6 3	Rs. A. P. .....
6412	Tappeh Azimpur and pergunnah Tahapur Thak No. 1632, mouzah Darichur Lakshmipura *alias* surplus alluvial accretion to estate Khalasi Chur	528 0 0	Proprietary right of whole estate.	.....	Abdul Majid Kazi Chowdhury.	.....	198 0 0	.....
6441	Tappeh Sultanabad, hissa 1⅜*p.* 1*kt.* Gulbadanbibi.	963 11 3	Whole estate.	. .	Syed Mozzum Ali Chowdhury and others.	.. ...	74 13 5	.....
6442	Ditto, hissa 1¼*a*, Salima Begum.	2,164 5 3	Ditto ..	.....	Ditto ditto ..	.....	168 4 3	.....
6443	Ditto, hissa 1*a.* 18*g.*, Syed Uzir Alial Hosani Choudhury	2,529 11 5	Ditt ...	.....	Ditto ditto ..	.....	196 5 7	.....
6449	Ditto, hissa 7½*g.*, Asimonessa Khatoon.	542 1 4	Ditto .	... .	Ditto ditto ...	.....	7 0 11	.....
6454	Thak No. 1651 surplus alluvial accretion to Ilsa Chur.	865 0 0	Proprietary right of whole estate.	.....	Durga Mohun Dass and others.	.....	1295 B. S.— 865 0 0 Current year— 150 0 0 1015 0 0	.....

Backergunge Collectorate, the 27th November 1889. H. SAVAGE, Offg. Collector.

NOTICE is heerby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Jessore will be put up for sale at the Collector's Office of that district on Friday, the 10th January 1890, corresponding 27th Pous 1296 B S, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
192	Madhabpasa, pergunnah Isafpur.	Rs A. P. 2,587 2 4	.....	Hisya No. 1	Raj Kumar Roy and others.	Rs A. P 305 6 8½	Rs. A. P. ...	Rs A P 19 5 8½
193	Madhubpur, pergunnah Mohamedshahi.	539 1 7	.....	Do. No. 1	Bhuban Mohini Dasya and others	129 10 5	.....	1 12 11
268	Srirampur, pergunnah Isafpur.	39 1 6	.....	Do. No 1 ...	Modhu Sudan Bakshi and others.	636 1 0	..	81 8 5
5295	Gonnadaspur, pergunnah Ukhra.	5,169 0 7	.....	Do. No. 6 ...	Bama Churn Chowdhry	25 2 2	.....	6 5 7

Jessore Collector's Office, the 2nd December 1889. A. GUPTA, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 10th January 1890 for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
73 Separate account No. 15.	Kirtihat, pergunnah Khargram.	Rs A. P 1,931 10 0	..	16g 3kag 13til 2kara.	Judah Lal Bondyopadyaya.	Rs. A P. 97 15 0	Rs A P. ..	Rs A P. 2 15 10
75	Turigram, pergunnah Shahajadpur.	1,568 0 0	The whole	... .	Shekh Tarifullah	.....	21 9 0	.....
170 Separate account No. 293.	Akuni, pergunnah Swarupganha.	1,832 10 0	... .	1a. 10g.	Purna Chandra Shome	171 12 8	. ....	9 3 5

Beerbhoom Collectorate, the 5th November 1889. M. K. BOSE, Deputy Collector in charge

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Monghyr will be put up for sale at the Collector's Office of that district on 28th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arr ars due from it.
		Rs. A. P.		*I.—Permanently-settled estates.*		Rs. A. P.	Rs. A. P.	Rs. A. P.
13	Joas, pergunnah Salemabad.	613 14 0	.. ...	2a. 13g. 6c. 13b. ...	Kuldip Narain Singh and others.	103 5 0	.....	104 6 0
13	Ditto ...	613 14 0	.....	3a. 3d. 18c. 6f. 14r. ..	Ramman Singh and others.	122 10 0	.....	74 10 6
283	Belchhi, pergunnah Amerthu	641 1 0	... ..	2a 8d.	Gopal Singh and others ...	96 8 0	.....	10 1 0
283	Ditto ...	641 1 0	.....	3a.	Ramadheen Rai and others.	120 1 0	.....	29 1 0
602	Parora, pergunnah Ballia.	830 15 0	.....	1 dam	Lachmi Kumri	2 10 0	.....	0 2 0
602	Ditto ...	830 15 0	.....	1a. 11d. 1c. 1d. 4r. 2p.	Lal Mohun Mullik and others.	132 2 0	.....	1 5 6
629	Sultanpur Tetri, pergunnah Ballia.	893 0 0	.. ...	11a. 9d 1k.	Sheik Tohower Hossain and others.	639 5 0	.....	131 15 0
804	Taluqa Tulsipur and others, pergunnah Malki	932 10 0	.....	1a. 18d. 2d.	Manohar Lal and others ..	110 15 3	.....	52 12 9
830	Ganga Persad, pergunnah Malki	588 3 0	.....	2a. 1c. 1k. 9r.	Reet Lal Singh and others	121 2 0	.....	61 5 3
1451	Bhowanandpur *alias* Ramdeari, pergunnah Malki	1,166 13 0	.....	1a. 5g. 1c. 3d. ...	Shew Dyal Singh and others.	91 9 0	.....	21 14 0
1451	Ditto	1,166 13 0	. ...	5g. 2c. 8d. 2k. 5f.	Mussamut Amrito Kumri and others.	20 15 0	.....	3 15 0
1451	Ditto ...	1,166 13 0	.....	16g 2c. 6d. .. .	Bhojraj Singh and others	60 12 0	.....	14 11 0
2305	Chuckangra, pergunnah Amerthu.	1,085 14 0	.. ...	1a. 15d. 11c. 2b 4f. 8b.	Shah Mohamad Hossain and others.	120 7 0	.....	29 14 9
2317	Imamnagar, pergunnah Amerthu.	513 14 0	Whole ..	.....	Syed Tassaduk Hossain and others.	.....	0 13 6	.....
2740	Halsi, pergunnah Amerthu.	1,504 1 0	.....	13a. 10d. 5c. 2b. ...	Beni Singh and others ...	1,282 0 0	.....	220 14 0
2779	Mahiuddinsgar Karik, pergunnah Amerthu.	564 11 0	.....	3a.	Kokil Singh and others ...	95 8 0	.....	11 14 0
2779	Ditto ...	564 11 0	... ..	2a.	Rohim Singh and others	120 9 0	.....	0 14 9
5259	Mohamedpur Fataha, asli and dakhli, pergunnah Emadpur.	708 0 0	.....	12a.	Moulvi Asrafuddin Ahmad and others.	531 0 0	.....	18 14 9
				II.—Temporarily-settled estates.				
1433	Akberpur Barari, pergunnah Malki.	783 13 0	.....	14a.	Kharag Singh and others	685 14 0	.....	60 8 8

Monghyr Collectorate, the 4th December 1889. T. E. COXHEAD, Officiating Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the Conditions of Sale below, to the undermentioned estate situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 11th January 1890, corresponding with 28th Pous 1296 B.S.

The purchasers will be subject to the following conditions of sale—

Conditions of sale.

1*st.*—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd.*—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd.* If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th.*— If the amount of purchase money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	REMARKS.
		A. R. P.	Rs. A. P.	
98	Kismut Jot Kasturi, pergunnah Kotuali.	62 0 12	50 0 0	

Collector's office, district Maldah, the 15th November 1889. C. A. SAMUELLS, Collector.

NOTICE is hereby given, under section 6 of Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of the 24-Pergunnahs will be put up for sale at the Collector's Office of that district on the 8th January 1890 for arrears of revenue which fell due on the 28th September 1889.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
9	Pergunnah Magura, kismut Chitta and others.	818 1 7½	The whole	.....	Harish Chandra Roy Chowdhury and others.	.....	72 4 4	.....
15	Pergunnah Magura, mouzah Khariberia and others.	4,091 4 2½	Ditto ...	.....	Hem Chundra Roy Chowdhury and others.	.....	230 4 6½	.....
53	Pergunnah Magura, kismut Rameshurpur and others.	3,287 3 0	.....	12a. 10g. 5kag 15½ residuary share.	Radha Mohan Mundal and others.	2,571 11 8	.....	23 3 8
64	Pergunnah Magura, kismut Bansdroni and others.	6,842 4 9	.....	10a. 8g. 6korg 8 residuary share.	Prosunna Coomar Banerjee and others.	4,455 13 9	.....	128 1 2
67	Pergunnah Magura, kismut Futtepore and others.	1,383 1 9	.....	11a. 5½g. residuary share...	Kalli Kristo Mundal and others.	974 10 5	.....	72 12 9
97	Pergunnah Magura, kismut Bagi and others.	990 10 4	.....	9a. 11½g. residuary share ..	Ditto ...	618 2 0½	.....	53 10 7
98	Pergunnah Magura, mouzah Moheshurpur and others.	558 3 11	The whole	.....	Ditto ...	.....	28 11 3	.....
99	Pergunnah Magura, kismut Mokundpur and others.	1,065 7 11	.....	13a. 18g. residuary share...	Ditto ...	924 10 10	.....	20 4 3
151	Pergunnah Baridbati, kismut Chak Hotoo-ria and others.	39,930 11 11½	.....	15a. 15½g. 12½ residuary share.	Trailakha Nath Biswas and others.	39,374 1 6½	.....	336 3 1
267	Pergunnah Medon Molla, mouzah Soobo-dhepur and others.	633 2 9	The whole	.....	Woomesh Chunder Ray Chowdhury and others.	.....	28 1 9	.....
313	Pergunnah Moora-gacha, kismut Sakooya and others.	1,385 9 2	.....	8a. 17g. 2kranti residuary share.	Kalli Kristo Mundal and others.	767 1 10½	.....	62 14 4
314	Pergunnah Moora-gacha, kismut Hari-narayanpur and others.	12,248 10 1½	.....	9a. 10g. 4 residuary share	Radha Mohan Mundal and others.	7,246 13 9½	.....	180 0 6
315	Pergunnah Moora-gacha, kismut Raghu-nathpur and others.	10,256 13 10½	.....	10a. 18½g. residuary share	Kalli Kristo Mundal and others.	7,003 8 2½	.....	450 3 2½
322	Pergunnah Mooraga-cha, mouzah Aulum-pur and others.	10,565 0 2	.....	8a. 16g. 11kag 9-0 residuary share.	Harry Mohan Banerjee and others.	5,834 7 5½	.....	86 7 9
342	Pergunnah Ghur and others, mouzah Rai-pur and others.	7,847 2 4½	The whole.	.....	Kalli Kristo Mundal and others.	.....	202 10 6½	.....
346	Pergunnah Balia, mou-zah Shantoshbati and others.	5,548 2 9	.....	15a. 14g. 2kranti residuary share.	Radha Mohan Mundal and others.	5,447 0 9	.....	169 7 2
348	Pergunnah Balia, kis-mut Panchaor and others.	2,136 15 4	.....	10a. 13g. 1kori 1kranti residuary share.	Manindra Mohun Mukerjee and others.	1,424 10 2½	.....	49 7 8
355	Pergunnah Balia, kis-mut Raipur and others.	2,762 0 7	.....	10a. 10g. 1kora 1kranti residuary share.	Kalli Kristo Mundal and others.	1,815 7 4½	.....	181 3 7½
385	Pergunnah Auzeem-abad, hooda Rash Khalli and others.	19,434 8 1½	.....	Excluding shares separated under section 10 of Act XI of 1859, and under section 70 of Act VII (B. C.) of 1876, the residuary share paying a revenue of Rs. 10,055-1-6.	Apoorba Kumari Dasi and others.	10,055 1 6	.....	525 9 2½
385-3	Ditto ditto ...	19,434 8 1½	.....	Share separated under section 70 of Act VII (B. C.) of 1876, paying a revenue of Rs. 1,362-8-7½.	Upendra Kristo Mundal.	1,362 8 7½	.....	151 4 8
385-7	Ditto ditto ...	19,434 8 1½	.....	Share separated under section 70 of Act VII (B.C.) of 1876, paying a revenue of Rs. 1,362-8-7½.	Kalli Kristo Mundal	1,362 8 7½	.....	151 4 8
386	Pergunnah Auzeem-abad, mouzah Udaya-rampur and others.	1,734 9 8	.....	8a. 17g. 2kranti residuary share.	Kalli Kristo Mundal and others.	954 12 11½	.....	68 13 6
388	Pergunnah Balia, mouzah Molowyapur and others.	8,327 4 6	.....	Excluding share separated under section 10 of Act XI of 1859, the residuary joint shares 12a. 6kora.	Ditto ...	6,271 7 6½	.....	364 4 8½
389	Pergunnah Balia, mouzah Santoshpur-and others.	9,434 9 7	.....	13a. 6g. 3kora 1kranti residuary share.	Ditto ...	7,867 1 3½	.....	477 15 1
390	Pergunnah Balia, mouzah Gondho Baduli and others.	1,381 9 7	.....	11a. 5½g. residuary share	Ditto ...	973 9 3	.....	72 13 11
391	Pergunnah Moora-gacha, mouzah Gomokhi and others.	3,538 3 6	.....	11a. 6g. 2kranti residuary share.	Ditto ...	4,087 3 7	.....	210 3 6
392	Pergunnah Auzeem-abad, hooda Joychan-dipur and others.	3,313 7 3	.....	12a. residuary share ...	Saroda Dasi and others.	6,235 1 9	.....	345 0 10½
394	Pergunnah Auzeem-abad, mouzah Kissori-pur and others	7,018 12 11	.....	10a. 10g. 1kora 1kranti residuary share.	Kalli Kristo Mundal and others.	4,672 3 11½	.....	428 14 3
395	Pergunnah Auzeem-abad, taraf Madhub-pur and others.	14,657 13 11	The whole.	.....	Kailash Chunder Mundal and others.	.....	1,229 0 9	.....
401	Pergunnah Auzeem-abad, hooda Ram-kristopur and others.	8,941 9 7	.....	10a. 10g. 1kora 1kranti residuary share.	Kalli Kristo Mundal and others.	5,677 3 10	.....	699 6 3½
403	Pergunnah Auzeem-abad, taraf Pathor-beria and others.	5,143 3 3	.....	15a. 10g. residuary share...	Radha Mohan Mun-dal and others.	4,982 7 3	.....	150 12 3½
411	Pergunnah Magura, kismut Dhanuya Khola and others.	3,519 11 10	The whole.	.....	Harish Chandra Roy Chowdhury.	.....	309 7 1	.....
1634	Pergunnah Magura, taraf Bantra and others.	14,681 6 4	.....	4a. 2kora 2kranti residuary share.	Soorat Mohini Dasi and others.	3,700 14 9	.....	238 14 6
1634-2	Pergunnah Moydu, taraf Bantra and others.	14,681 6 4	.....	1a. 3g. 3kora share ...	Sookhomoyi Dasi ...	1,089 10 2	.....	98 13 5

RAM CHURN BOSE, Deputy Collector, for Collector.

24-Pergunnahs Collectorate, Alipur, dated the 25th November 1889.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the under mentioned mehals and tenures borne in the towji of the district of Noakhally will be put up to public and unreserved sale at the Collector's Office of that district on Saturday, the 11th January 1890, corresponding with 28th Pous 1296 B.S., for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 28th September 1889.

Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1	2	3	4	5	6	7	8	9
45	Kismat Mohindra Narayan, pergunnah Sundeep, station Sundeep.	Rs. A. P. 637 1 11	Whole...	.....	Chundra Mohon Nandi	Rs. A. P.	Rs. A. P. 109 7 3	Rs. A. P. .....
194	Chur Hudrakhali, zemindari Moodafat Hossen, ghat Maghi, pergunnah Sundeep.	1,904 0 0	Do. .	.....	Asanullah Choudhuri and Rahimullah Choudhuri Mataulli.	.....	318 0 0	.....
1551	No. 14, Gayer Makarari Howla Abdul Rahaman in chur Shulukya *alias* Sunya chur, pergunnah Bhoolooah.	595 6 11	Do. ...	.....	Wazuddin Maghi, son of Tomisuddin Bhuya of chur Shulukya, station Shudharam.	.. ..	130 2 6	.....
1671	No. 1, Gayer Makarari Meadi (temporary) Howla Anwaruddin, Kali Das, Madan Nath Moodafat, Mahammed Manwar, Mahammed Kalim, Akramuddin in chur Gazi, pergunnah Jagira.	1,667 4 6	Do. ...	.....	Isaf Maghi, son of Amiruddin, Hawladar of Chiladi, station Lukhipura.	.....	364 10 0	.....
1671	No. 3, Gayer Makarari Meadi (temporary) Howla Mahammed Manwar, Mahammed Kalim, Akramuddin in chur Gazi, pergunnah Jagira.	1,318 9 0	Do. ...	.....	Srimati Halimennessa Choudhurani, wife of Baksha Ali Choudhuri of Shahar Kashba, station Lukhipura.	.....	291 13 0	.....
1671	No. 45, Gayer Makarari Meadi Howla Sarfaruddin, Kalimuddin, No. 279, Dakhal in chur Gazi, pergunnah Jagira.	555 9 7	Do. ...	.....	Ajamuddin Patwari, son of Shorafuddin Bhuya; Amirjan, wife of Kalimuddin, mother and guardian of Ameenullah, Fasil, minors of chur Lukhi Chuni, son of Panaullah; Matimesh, son of Ajamuddin; Kasim, son of Munshi; Karimennessa, wife of Hasim; Moonsar Ali, son of Samsher Ali; Samadali, son of Khan Mahamed; Tazumaddin, son of Kagamuddin; Umed Ali, son of Ajamuddin; Manmeah, son of Mahamed Hanip; Abdul Meah, son of Amud Ali; Fazar Ali, son of Hasim; Srimati Halubernessa, wife of Himat Ali; Kadir Baksha, son of Kasim Sarkar; Janbaksha, son of Juman Ali; Amjad, Asabuddin, Munswar Ali, sons of Ajamuddin of chur Gazi, station Hatia.	.....	121 7 0	.....
1680	No. 1, Gayer Makarari Meadi Howla Polan Meah and others in chur Alexander, pergunnah Jagira.	540 13 7	Do. ...	.....	Polan Meah, son of Golam Ali Bhuya; Amiruddin, son of Ashak Maghi; Abdul Kareem Meah, son of Umed Ali of chur Gazi; Abdul Meah, son of Alabuddin; Aptar Ali, son of Tomu of chur Algi; Umed Ali Serang, son of Reazuddin Mullah of chur Gassain, station Hatia.	.....	118 3 0	.....
1686	No. 2, Gayer Makarari Meadi Howla Polan Meah and others in the said chur, pergunnah Jagira.	649 12 9	Do. ...	.....	Polan Meah, son of Golam Ali Bhuya; Amiruddin, son of Ashak Maghi; Abdul Kareem Meah, son of Anis Mazoomdar and Manoo Meah, son of Umed Ali of chur Gazi; Abdul Meah, son of Alabuddin; Aptar Ali, son of Tomu of chur Algi, station Hatia; Umed Ali Serang, son of Reazuddin Mullah of chur Gassain, station Hatia.	.....	142 3 0	.....
1662	No. 80, Gayer Makarari Meadi Howla Ajmatullah, Shubal Chandra Guho in chur Maghdhora, pergunnah Sundeep.	708 14 7	Do.	.....	Uma Choran Guho, son of Rajkishore Guho of Mirjapur station, Hat Hazari, zillah Chittagong, at present of chur Maghdhora, station Sundeep.	.....	155 0 0	.....

Noakhally Collectorate, the 26th November 1889. MOHINI MOHUN CHAKRAVARTY, Dy. Collr. for Offg. Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Maldah will be put up for sale at the Collector's Office of that district on 11th January 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
1	2	3	4	5	6	7	8	9
233	Tikoil, pergunnah Chandlai.	Rs. A. P. 1,841 13 0	Whole estate.	.....	Madhu Sudan Sanyal, Pran Nath Sanyal, Jadumoni Debi, Hari Nath Sanyal, Saroda Sundari Debi, Radha Madhab Choudhuri, Ram Narain Sircar and Radha Raman Dey, executors on behalf of Bata Kristo and Radha Kristo Choudhuri, minors, Guru Prasad Sanyal, guardian on behalf of Gobinda Bandhu Sanyal, Bhagabati Debya, Promoth Nath Choudhuri, and Radha Madhab Choudhuri.	Rs. A. P.	Rs. A. P. 50 3 0 Arrears of land revenue.	Rs. A. P. .....

Collector's Office, Maldah, the 30th November 1889. C. A. SAMUELLS, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 31st January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
	Thanas Town and Ranzan—							
2 / 2	Taruf Ajodha Ram, Fattabad.	723 13 0	Yes: the whole estate is to be sold.	.....	Pran Kristo Das, Ram Shabak Das and others.	.....	49 8 8	... ..
	Thanas Patya, Futtickcherry, Hathazari, and Satkania—							
25 / 51	Taruf Alearkhan ..	1,606 0 9	No: only shares are to be sold	Separate accounts having been opened under Act XI of 1859, share No. I, Asad Ali Khan, share No. II, Akber Ali Khan; share No. III of the remaining proprietors.	Share No. 1, proprietor Anwar Ali Khan.	468 7 5	.....	129 1 6
					Share No. 2, Asharaf Ali Khan and Jandah Bibi and others.	811 6 3	.....	240 14 2
					Share No. 3, Uzir Ali and Anwar Ali Khan.	326 3 1	.....	96 13 0
								476 12 8
	Thanas Futtickcherry, Hathazari, Patya, Ranzan, Town, and Zowargunge—							
28 / 54	Taruf Anandi Ram, Kanongoe.	849 6 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 10, Ram Joy Mohazan; share No. 11, Ram Joy Mohazan; share No. 13, Sudder Ali, and share No. 24, Bisham-bur.	Share No. 10, Kali Kumar, Durgakripa De.	12 11 0	.....	3 13 3
					Share No. 11, Kali Kumar, Durgakripa De.	14 14 0	.....	4 6 6
					Share No. 13, Asharaf Ali Amincila, *alias* Gurun Meah.	11 0 0	.....	3 4 3
					Share No. 24, Kali Kumar and Durgakripa De.	53 13 3	.....	16 0 6
								27 7 6
	Thanas Hathazari, Ranzan, and Town—							
29 / 55	Taruf Azis Nazarat ...	791 12 0	Yes: the whole estate is to be sold.	.....	Sheik Karam Ali Meah.	.....	236 0 1	.....
	Thana Futtickcherry—							
37 / 64	Taruf Annundy Manollah	1,160 0 3	Ditto ...	.....	Nemai Charan Nandi, Gunashila.	.....	89 1 6	.....
	Thana Ramzan—							
83 / 391	Taruf Basanta Ram, Fatehabad.	557 14 3	Ditto	.....	Anunda Mohon, Samad Ali and Sreemati Meherjan Bibi and others.	.....	21 1 0	. ....
	Thanas Hathazari, Futtickcherry, Patya, Town, and Satkania—							
92 / 401	Kismut Balaram Sircar Baboit, taruf Soncullah Khan.	1,063 11 3	Ditto ...	.....	Gris Chandra Rakhit and Guru Das Rakhi	.....	315 12 6	.....
	Thanas Bhatiari, Hathazari, Ramoo, Zorwargunge, Patya, and Satkania—							
116 / 522	Kismut Bissessari Baboit, taruf Gouri Sankur.	1,228 12 9	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 13 of the remaining proprietors.	Share No. 13, Mohabat Ali, Mahamod Hossen, Kali Charan and others.	404 13 11	.....	3 13 6
	Thanas Futtickcherry, Hathazari, Patya, Town, Satkania, and Ramoo—							
257 / 1263	Taruf Jubber Dust Khan...	6,538 11 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 1, Fazal Ahamud.	Share No. 1, Fazal Ahamud and Bazal bamad.	2,043 14 5	.....	299 13 5
	Thanas Futtickcherry, Hathazari, Patya, and Satkania—							
284 / 1467	Taruf Karim Khan ...	715 12 0	Yes the whole estate will be sold.	.....	Anwar Ali Khan ...	.....	210 0 0	.....
	Thanas Patya and Satkania—							
286 / 1469	Taruf Komur Kulli ...	1,015 13 0	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 10, Dwarka Nath Kundo.	Dwarka Nath Kundo	68 10 5	.....	20 5 11
	Thana Ranzan—							
305 / 1552	Taruf Kanus Fernandes	1,640 5 3	Yes: the whole estate will be sold	.....	Gris Chandra Roy Rakhit, Guru Das Roy Rakhit, and others.	.....	486 15 0	. ....
	Thana Bhatiari—							
336 / 1751	Taruf Modun Chowdhury	686 6 5	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 4, Koshalya.	Shib Prosad Shukul	141 10 0	.....	42 0 9
	Thanas Hathazari and Ranzan—							
372 / 1889	Taruf Mohomad Shafi Nazir.	558 7 3	Yes the whole estate will be sold.	.....	Susty Charan Sen, Bhairub Chandra Chowdhury and others.	.....	185 12 3	.....

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
383 / 1900	Thana Zorwargunga— Taruf Mohomed Monohur	666 15 6	Yes: the whole estate will be sold.	.....	Sreemati Raiso Nasa Chowdhuria.	.....	198 0 0	.....
	Thanas Hathazari, Patya, Ranzan and Town—							
469 / 2432	Kismut Pran Kristo, Gopi Mohun, Guru Das and Haridas Roy Sabott, taruf Jugul Kissor Chowdhury.	2,353 14 6	No: only shares will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2, Akhil Chandra Roy, share No. 6 of the remaining proprietors.	Share No. 2, Akhil Chandra Roy.	551 8 9	.....	113 4 4
					Share No. 6, Gris Chandra Roy, on behalf of minor Bhikon Chandra and Esof Ali and others.	1,329 2 8	.....	365 4 7
								478 8 11
	Thanas Futtickcherry, Patya, Hathazari, Ranjan and Town—							
481 / 2453	Taruf Pran Ballab ...	944 5 5	No: only a share will be sold.	Ditto, share No. 3, Mohesh Chandra Chowdhury.	Mohesh Chandra Chowdhury and Obhoy Charan Chowdhury and others.	118 0 8	.....	35 0 9
	Thana Ranzan—							
5 11 / 2538	Taruf Raghob Juggodish	515 0 3	Ditto ...	Ditto, share No. 12 of the remaining proprietors.	Gunga Das, Brejo Mohon and others.	132 2 1	.....	34 3 7
	Thanas Patya, Ranzan, Town, and Hathazari—							
51 / 2544	Taruf Ram Mohon Sun ...	684 11 3	Yes: the whole estate will be sold.	.....	Prasanna Kumar and Ali Meah.	.....	129 13 6	.....
	Thanas Chakaria, Patya, Ranzan, and Town—							
527 / 2554	Taruf Ram Sondur Kanongoe..	849 6 6	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2 of the remaining proprietors.	Srimoti Latifa Khatun.	681 6 6	.....	202 3 9
	Thanas Zorwargunge, Patya, Ranjan and Satkania—							
535 / 2565	Taruf Ram Kishore Kanongoe.	818 11 10	Ditto ...	Ditto, share No. 6, Ram Chandra Biswas and Bangshi Badon Biswas.	Mohesh Chandra Bhuttacharjee.	14 11 0	.....	4 5 9
	Thanas Patya and Town—							
569 / 2929	Taruf Sachi Roshun ...	732 11 0	No: shares will be sold.	Ditto, share No. 1, Sheek Sadak Ali; share No. 2, Keramut Ali.	Share No. 1, Sadut Ali Chowdhury.	82 5 3	.....	24 7 1
					Share No. 2, Anwar Ali Chowdhury.	188 2 9	.....	17 10 3
								42 1 4
	Thanas Bhatiari, Hathazari, Zowargunge, Patya, Ranzan, Town and Satkania—							
573 / 2933	Taruf Sachi Ram Kanongoe.	26 12 9	No: shares will be sold.	Separate account having been opened under Act XI of 1859, share No. 1, Lal Mohomed; share No. 16, Dwarka Nath Kanongoe; share No. 62, Ram Kumar Dey and others; share No. 63 of the remaining proprietors.	Share No. 1, Lal Mohamed.	4 14 3	.....	1 7 3
					Share No. 16, Dwarka Nath Kanongoe on behalf of Lakhi Narain Chackro.	4 4 6	.....	1 4 3
					Share No. 62, Ram Kumar Brejo Bashi	0 10 6	.....	0 2 11
					Share No. 63 of the remaining proprietors Assanullah Chowdhury and others.	203 0 3	.....	83 8 9
								86 7 2
	Thanas Hathazari, Patya, Ranzan and Town—							
590 / 3054	Taruf Shib Durga Sharan...	2,942 8 9	No: only a share will be sold.	Ditto, share No. 8, Shoobal Chandra Das	Shoobal Chandra Das.	25 14 5	.....	7 9 5
	Thana Chakaria—							
606 / 3113	Taruf Shoremast Khan Chowdhuri.	537 6 6	Ditto ...	Ditto, share No. 1, Fazal-ahamed.	Share No. 1, Fazal-ahamed, Ezzal Samad and others.	166 10 0	49 2 8	.....

N. B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 25th September 1889.

Chittagong Collectorate, the 14th December 1889.

C. G. H. ALLEN, for Offg. Collector

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Shahabad will be put up to public and unreserved sale at the Collector's Office of that district on the 11th day of January 1890 for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue due on the 28th day of September 1889.

When in columns 5, 7, and 9 of the appended statement is is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mahal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold the arrears due from it.	If only a share is to be sold, the arrears due from it
1	59	Balua, pergunnah Arrah.	Rs. A. P. 5,372 14 3	.....	A. P. K. M. D. Naragda Hetampore .. 16 0 0 0 0 Piparpanti Patti Tirpatti ... 16 0 0 0 0 Kewatia . 16 0 0 0 0 Khulepore Jakhri .. 16 0 0 0 0	Ram Saran Lall ...	Rs. A. P. 1,402 9 5½	Rs. A. P.	Rs. A. P. 4 1 4½
2	62	Bakhorapore, pergunnah Arrah.	2,666 10 8	.....	Bakhorapore ... 1 3 10 0 0	Mohesh Dutt and others.	215 4 5	.....	25 4 5
					Ditto 1 4 0 0 0	Shiva Saran Singh and others.	222 5 6½	.....	18 9 6½
3	206	Farhangpore, pergunnah Arrah.	799 3 0	.....	Ditto ... 6 11 11 2 4 Mustafapore Bhadwar ... 1 4 0 0 0 Sobhidoomra .. 0 6 0 0 0 Ditto .. 0 6 0 0 15 Siripatpore Chatar 3 9 0 0 0 Mustafapore Bhadwar .. 4 4 0 0 10 Farhangpore ... 0 0 0 0 10 Gothaulabaraoli 10 0 0 0 0	Raghoonundon Parsad and others. Jagdam Sahai ... Shia Balak Lall and others.	1,173 8 1½ 17 7 4½ 153 10 8½	.....	251 13 7½ 17 7 4½ 8 11 7½
4	208	Ditto .	1,592 0 1	.....	Farhangpore ... 3 2 8 0 0 Mustafapore Bhadwar ... 4 0 0 0 0 Siripatpore ... 4 2 0 10 0 Gothaulabaraoli 4 0 0 0 0 Sobhidoomra ... 5 0 0 0 0 Farhangpore ... 1 8 0 0 0 Mustafapore Bhadwar .. 2 6 13 6 0 Gothaulabaraoli 1 8 0 0 0 Sobhidoomra . 2 6 0 0 0 Siripatpore Chatar 1 9 5 12 0	Jugdeo Narayen Singh and others. Raj Balam Singh ..	409 6 6 204 5 10½	.....	24 10 6 9 15 9
5	222	Gyanpore, pergunnah Arrah.	1,706 10 8	.....	Gyanpore 8 0 0 0 0	Raghunandan Prasad Pande.	853 5 4	.....	106 10 6
					Ditto ... 8 0 0 0 0	Radha Madho Pershad Pande.	853 5 4	.....	106 10 6
6	396	Mathurapore Sonadia, pergunnah Arrah.	2,366 10 8	.....	Mathurapore Sonadia ... 7 1 7 0 0	Bibi Umat and others	1,574 1 4½	.....	101 15 7½
7	434	Mahoolkhurd, pergunnah Arrah	550 0 0	Whole ...	.....	Ram Saran Singh and others.	.....	0 14 0	.....
8	530	Padoorah, pergunnah Arrah.	1,291 0 0	Do. ...	.....	Madho Pershad and others.	.....	1 2 0	.....
9	633	Semana Jeo Narayen, pergunnah Arruh.	888 8 0	.....	1 4 0 0 0 2 8 0 0 0	Kali Charun Singh Abhiram Singh and others.	74 0. 8½ 148 1 5	....	0 9 8½ 0 7 5
					9 5 1 6 10	Moti Singh and others	823 4 2	.....	3 3 11½
10	771	Taufir Kutwa Rampore, pergunnah Barahgawan.	1,050 0 0	.....	13a.	Jhagroo Pande and others.	877 8 0	.....	12 14 5
11	816	Raipore Bingawan, pergunnah Barahgawan.	2,126 3 4	Whole ...	.....	Bhugwan Das and others.	.....	21 8	.....
12	1161	Padaria, pergunnah Belara.	1,530 0 0	Do. ...	.....	Babu Baijnath Sahai	.....	0 8 0	.....
13	1576	Baghelwa, pergunnah Chausa.	586 0 0	.....	8a.	Debi Dyal Chobe and others	293 0 0	.....	3 8 0
14	1607	Chilbila Kadipore, pergunnah Chausa.	751 9 6	Whole .	.....	Ram Nihora Ram and others.	.....	1 10 7	.....
15	1630	Chilabri Patti Bhichook Sahu, pergunnah Chausa.	720 14 7	Do. ...	.....	Dandi Pande and others.	.....	75 0 4	.....
16	1719	Indaurpati Girdhari Singh, pergunnah Chausa.	584 5 7	Do. ...	.....	Isri Rai and others ...	.....	29 0 11	.....
17	1948	Piprudh, pergunnah Chausa.	760 9 5	Do. ..	.....	Bhopat Rai and others	.....	0 11 0	.....
18	2050	Tiwai, pergunnah Chausa.	502 5 3	.....	Tenai ... 7 9 10 0 0 Do. ... 3 6 10 0 0	Bhairo Rai and others Sheo Dhark Misor and others.	244 11 11½ 111 4 8½	....	72 3 9 1 2 9
19	2144	Barijoo, pergunnah Chainpore.	704 12 2	.....	12a.	Mahabir Prasad and others.	573-10-1-10½	.....	10 10 11
20	2163	Baghi, pergunnah Chainpore.	859 11 9	...	7a. 6p.	Ram Dat Rai and others.	403 0 2½	.....	40 13 0½
21	2165	Bandipore, pergunnah Chainpore.	933 5 4	Whole ...	.....	Baijnath Sahai ...	.....	0 7 8	.....
22	2173	Bahirce Kalan ..	508 10	.....	6a.	Naipal Singh and others	190 12 9½	.....	25 5 0½
23	2188	Bairi Raghoonath, pergunnah Chainpore.	1,325 13 10	Whole	.....	Suraj Narayan Singh and others.	.....	667 6 3	.....
24	2250	Bharkhar, pergunnah Chainpore.	722 0 5	.....	13a. 8p. 11k. 8m. 9d	Dhan Coomar Chund and others.	619 2 4	.....	42 3 4
25	2317	Chata, pergunnah Chainpore.	709 5 4	Whole.	.....	Mussamut Hussemi Bibi and others.	.....	114 12 5	.....
26	2352	Darwan Meali, pergunnah Chainpore.	1,060 10 8	.....	4a.	Girdhari Rai and others.	266 10 8	.....	16 0 3½
					3a. 2½p.	Sivabaran Rai and others.	211 1 9½	.....	3 11 3½
27	2337	Dumduma, pergunnah Chainpore.	936 0 5	Whole.	.....	Samrath Rai and others.	.....	5 5 5	.....
28	2356	Daindwa	804 10 9½	...	8a.	Girdhari Singh and others.	402 5 4½	.....	83 3 6½
					5a. 4p.	Parbhoo Singh and others	268 3 0½	.....	72 11 4½

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
							Rs. A. P.	Rs. A. P.	Rs. A. P.
29	2357	Daudkheli Mohrakpore, pergunnah Chainpore.	739 2 1	Whole.	.....	Mohip Narayen Singh and others.	.....	46 10 0	.. ..
30	2364	Dohrak, pergunnah Champore.	1,668 5 3	Do. .	A. P. K. M. D.	Baijnath Sahai ..	..	0 0 2	.....
31	2433	Goi, pergunnah Champore.	1,414 0 0	.....	Lanka .. 2 8 0 0 0 Li ... 2 8 0 0 0	Ram Saroop Singh	98 13 2	.....	06 8
					Lanka 2 8 0 0 0	Ram Sabhi Singh and others.	130 3 2	.....	3 8 8
					Li ... . 2 8 0 0 0 Goi ... ... 2 8 5 18 0 Lanka ... 2 8 5 18 0	Mussamut Lakhpati Koer.	143 2 3	.....	7 14 3
					Do. ... 10 7 14 2 0 Goi ... 13 3 0 14 2 Li ... 5 4 0 0 0	Aher Singh and others.	874 2 9	.....	376 11 8
32	2519	Hamirpore, pergunnah Chainpore.	608 0 0	Whole	.. ...	Radha Mohan Prasad	.....	37 14 11	.... .
33	2542	Imilia, pergunnah Champore.	611 3 2	Do. ..	.....	Herkhoo Singh and others.	.....	70 2 7	.....
34	2618	Karji, pergunnah Champore.	1,132 2 2	.. ...	Kurji 1 6 0 0 0 Karmon 1 6 0 0 0 Babhnison ... 1 6 0 0 0 Dubri ... 1 6 0 0 0	Thakoor Dyal Singh and others.	132 4 3½	.....	8 0 0
					Kurji .. 6 0 0 0 0 Karmon ... 6 0 0 0 0 Babhnison 6 0 0 0 0 Dubri . 6 0 0 0 0	Mussamut Janki Koer and others.	703 9 7½	.....	43 9 7
					Nampura ... 12 5 6 13 5	Zalim Singh and others.	49 12 5½	.....	16 2 8½
35	2632	Kaliyanpore, pergunnah Champore.	533 5 4	Whole.	.....	Deo Narayen Singh and others.	.....	154 8 9	.....
36	2647	Katas, pergunnah Champore.	713 9 7	.....	13a. 4p.	Doman Singh and others.	594 10 7½	.....	240 10 7
37	2761	Majharia, pergunnah Champore.	1,006 10 8	Whole.	.. ...	Baijnath Sahai ...	.....	0 1 4	...
38	2774	Masaudhar, pergunnah Champore.	660 4 4	Do. ...	..	Bal Kishoon Sahai and others.	.....	142 8 7	..
39	2878	Nawajhouti ..	814 14 11	Do. ..	...	Gopal Sarun Singh and others	.....	308 0 2	.....
40	2944	Pariari, pergunnah Chainpore.	1,627 7 6	Do. ..	.....	Radha Mohan Prasad Pando and others.	.....	94 12 6	. ...
41	3051	Sirirampore *alias* Saria.	1,441 1 1	Do. ..	.. ...	Baijnath Sahai ...	.....	0 3 4	.....
42	3074	Sondhi, pergunnah Champore.	1,636 4 3	.....	Baroona ... ... 16 0 0 0 0 Mujhigaon .. 16 0 0 0 0 Jigna .. 16 0 0 0 0 Madanpoora .. 16 0 0 0 0	Lala Seanund and others.	1,606 6 5	.....	25 6 10
43	3102	Shopore Bhal, pergunnah Chainpore.	967 7 6	.. ...	2p.	Tilakdhari Lal ...	10 1 3	.....	2 14 6
44	3178	Tari, pergunnah Chainpore.	869 14 3	....	Tari . 4 0 0 0 0 Patti Kusr .. 4 0 0 0 0 Jaddapore ... 4 0 0 0 0	Debi Dyal Singh	124 13 5	.....	2 9 3
					Tari ... ... 9 4 0 0 0 Jadu Kant .. 9 4 0 0 0 Patti Kusr ... 9 4 0. 0 0 Jadupore ... 5 4 0 0 0 Sonbersa .. 5 4 0 0 0 Basantpore ... 5 4 0 0 0 Bhugwanpore ... 5 4 0 0 0 Baradihri ... 16 0 0 0 0 Kekarha ... 16 0 0 0 0 Salondha ... 16 0 0 0 0 Ghusna ... 16 0 0 6 0	Gopal Sarun Singh and others.	300 7 0½	.....	83 10 8½
45	13634	Kushi Sadhwa, pergunnah Dinara.	1,000 0 0	.....	Kush ... ... 8 10 13 6 10 Rohi ... ... 8 10 13 6 10 Dasraon 5 4 0 0 0	Ram Sarun Lall and others.	161 4 3½	.....	12 12 4½
46	3639	Khedaoi, pergunnah Dinara.	986 10 8	.....	Khadaon Khurd 11 2 8 0 0 Khadaon Kalan 11 2 8 0 0 Dhanchooa ... 11 2 8 0 0 Bhanjandihra 11 2 8 0 0	Raghoobir Sarun Thakoor and others.	690 10 4	.....	20 3 4
47	3645	Patti Kamiari, pergunnah Dinara.	1,025 1 1	Whole.	.....	Sona Koer and others.	.....	7 0 5	.....
48	3703	Barochi, pergunnah Nonore.	2,843 0 0	Do ..	.....	Madho Pando and others.	.....	4 5 9	.....
49	3707	Herapore Lasadi, pergunnah Nonore.	2,242 0 0	.....	Lasadi ... ... 16 0 0 0 0 Hirapore Dhamaria. 8 0 0 0 0	Ram Sarun Singh and others.	2,085 8 0	.....	6 3 6
50	3782	Koulo Dehri, pergunnah Nonore.	752 9 8	Whole.	.... .	Lachmi Narayen and others.	.....	104 4 8	.....
51	3843	Mirzapore Atpa ...	645 0 0	.....	8a.	Ditto ..	323 8 0	.....	37 0 0
52	4102	Sandeo, pergunnah Pawar.	1,066 10 8	Whole ...	.....	Bisumbhor Singh and others.	.....	9 13 3	.....
53	4392	Doman Dehri, pergunnah Piro	066 10 8	Do. ...	.....	Rudhan Singh and others.	.....	102 8 11	.....
54	4291	Damarua, pergunnah Piro.	900 0 0	Do. ...	.....	Aga Sultan Tafazal Hossain.	.....	112 0 0	.....
55	4509	Makundpore Jamsoodi.	500 0 0	Do. ...	.....	Babnan Ojha and others.	.....	4 7 8	.....
56	4667	Sonbersa, pergunnah Piro.	520 0 0	.....	1p.	Mussamut Moorta Koer.	2 11 4	.....	6 15 2
57	5169	Chundonpore, pergunnah Sasseram.	580 10 8	.... .	11a. 4p. 10k	Makund Pando and others.	527 1 4	.....	6 11 0
58	5638	Mahuari Baraicha.	658 2 2	... .	Mahuari .. 16 0 0 0 0 Parasia .. 16 0 0 0 0	Mussamut Bibi Fatma and others.	351 11 9½	.....	41 15 3½
59	5933	Suara Sakhan, pergunnah Sasseram.	718 8 5	...	8a. 0p. 3k. 16m. 4½d.	Manoo Rai and others.	396 7 0	.....	23 0 10
60	6182	Noorpore Majhouli, pergunnah Arrah.	533 7 6½	Whole.	.. .	Chaudhry Abhuram Singh and others.	.....	0 2 1	.....

Shahabad Collectorate, Arrah, the 22nd December 1889

E. F. GROWSE, Offg. Collector.

NOTICE is hereby given that on the undermentioned plots of the Nizamut lakhraj State lands situated in the district of Burdwan, Nos. 72 to 75 will be put up to sale on the spot by the Deputy Collector at the Burdwan Collectorate, and No. 89 by the Sub-divisional Officer of Culna, on Monday, the 27th January 1890, corresponding to 15th Magh 1296 B. S.

The purchasers will be subject to the following conditions of sale:—

Conditions of Sale.

1. The lands to be sold revenue-free to the highest bidder above the upset price, which will be fixed for each plot at the time of sale.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and the purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3. If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the lands to be again put up to sale at the risk of the defaulting purchasers, after issue of advertisement, as in the case of original sale.

5. The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Boundaries.	REMARKS.
				B. K. CH.		
72	Jaigirdagra	Ukhari ...	Shamurshahi.	7 5 7	East of the Bhagar jote lands of Saroo Patan; south and west of jote lands of Budhu Mirdha; south of jote lands of Rasud Mirdha; east of a public road and of jote lands of Mohur Mirdha and of the Bhagar jote lands of Saroo Patan.	*Plot I.*—Jote of Sakir Mandal and of Nihar Bibi, wife of Edu Mandal of Narigram.
73	Ditto ...	Ditto ...	Ditto ...	10 9 15	North of jote lands of Pitambar Charal, Kodar Chowdhury, Shek Karoo, and Shek Tooraj; west of jote lands of Hara Mirdha, Dohar Mirdha, Kodar Chowdhury and Manik Mirdha; south of jote lands of Sova Mirdha, Haroo Mirdha, Sakauddin Mirdha, Jamman Mirdha, Tarku Shek; east of jote lands of Ulfoo Mandal, Tarku Shek, Karoo Shek, and of Bhagar jote lands of Saroo Shek; south and east of jote lands of Waz Shek.	*Plot II.*—Do do.
74	Ditto	Ditto ..	Ditto ..	2 13 11	North of jote lands of Manik Mirdha; east of jote lands of Sona Mirdha and Dolal Khan; south of jote lands of Alivardy Mirdha, west of jote lands of Aidu Chowdhury.	*Plot III.*—Jote of Takai Mandal of Narigram.
75	Ditto .	Ditto ...	Ditto ...	4 13 14	North of the chowkidari chakran lands of Tincuri Hari; east of jote lands of Sakauddin Mirdha, Hara Mirdha, Sonaulla Mirdha, and Ronga Lal Charal; south of jote lands of Sonaullah Mirdha; west of the chowkidari chakran lands of Gourab Khan, Patan and Ramdhan Bagdi.	*Plot IV.*—Jote of Sakir Mandal of Narigram.
89	Dakadda	Shyambati	Karajpur	5 15 13	South of the jote lands of Deb Nath Pal and Kunja Mandal; east of the lakhraj jote lands of Deb Nath Pal; north of the lakhraj jote lands and of the barren land of Deb Nath Pal; west of a public road.	Jote of Sita Nath Pal and Deb Nath Pal of Shyambati.

Burdwan Collectorate, the December 1889. KEDAR NATH DUTT, for Officiating Collector.

NOTICE is hereby given, under sections 6, 7, and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Pubna will be put up for sale at the Collector's Office of that district on the 10th January 1890, corresponding with 27th Poos 1296 B. E., for arrears of revenue and other demands for the kist of September 1889, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.	
175	Taraf Shampur, pergunnah Amirabad.	3,136 9 0 Police— 5 1 0	.....	Ijmali share.	Kashi Nath Das, Kailash Chandra Ghosh and others.	1,935 5 0 Police— 3 1 0	...	8 7 0	The following shares which are not in arrears are exempted from sale— Revenue. Police. Rs. A. P. Rs. A. P. Ataronessa, wife of Moulvi Sayiduddin Ahmed .. 450 15 0 0 12 0 Gurucharan Dutta and others .. 770 5 0 1 4
227	Aliarpur, pergunnah Katar Mohalla.	3,129 0 0 Police— 14 1 0	The entire mehal is to be sold.	.....	Jagat Chandra Bhaduri and others.	...	2 5 0	.	
320	Brandoho Bohoti, pergunnah Borobazar.	854 0 0	.....	Ijmali share.	Amirannessa Khatun, mother and guardian of Moulvi Abdul Hai and others.	701 3 0	...	43 3 6	The following shares which are not in arrears are exempted from sale— Rs. A. P. Janhobi Choudhurani 42 7 0 Mohima Chandra Joardar 27 11 0 Shares in arrears for which separate notices have been issued in consequence of their sudder jumma being less than Rs. 500. Revenue. Rs. A. P. Ekabbar Fakir . 27 11 0 Rohimuddin Munshi and others 55 6 0

Pubna Collectorate, the 18th December 1889. W. FIDDIAN, Collector.

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 31st December 1889.

PARTICULARS.	3½ per cent. transfer loan of 1853-54.	4 PER CENT. LOANS							4½ PER CENT. LOANS				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	GRAND TOTAL.
		Of 1832-33.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879 4½ per cent. portion.	Total.			
Balance of 15th December 1889 ..	54,700	11,29,387	25,43,800	2,47,61,100	1,02,89,200	4,12,74,100	2,06,24,400	10,06,21,987	49,700	70,97,500	11,06,91,600	11,78,38,800	1,33,800	32,200	21,86,81,487
ADD—															
Amount enfaced at Madras between 16th and 31st December 1889	...	.. .	.....	500	.....	72,000	.	72,500	.....	..	41,000	41,000	.. ...	. .	1,13,500
Amount enfaced at Bombay between 16th and 31st December 1889	... .	.....	.....	1,59,000	1,81,000	1,15,000	....	4,55,000	... .	31,000	1,13,000	1,44,000	...	.....	5,99,000
Amount enfaced at Calcutta between 16th and 31st December 1889 ... -	.....	.. ..	.....	13,500	7,500	64,000	.....	85,000	.. ...	18,500	69,000	87,500	.....	.. ...	1,72,500
DEDUCT—	54,700	11,29,387	25,43,800	2,49,34,100	1,04,77,700	4,15,25,100	2,06,24,400	10,12,34,487	49,700	71,47,000	11,09,14,600	11,81,11,300	1,33,800	32,200	21,95,66,487
Amount written off in the London registers	... ..	... .	.....	40,500	75,700	9,13,400	5,500	10,35,100	.....	1,500	98,000	99,500	.....	.....	11,34,600
Balance on 31st December 1889 ...	54,700	11,29,387	25,43,800	2,48,93,600	1,04,02,000	4,06,11,700	2,06,18,900	10,01,99,387	49,700	71,45,500	11,08,16,600	11,80,11,800	1,33,800	32,200	21,84,81,387

NOTE.—From 9th June 1867 to 31st Oct. 1889—Enfaced from India 6,141 lakhs; re-transferred from London 5,309 lakhs.

,,	1st Nov. 1889	,,	15th Nov	,,	,,	,,	,,	4	,,	,,	,,	,,	4	,,
,,	16th ,,	,,	,,	30th	,,	,,	,,	,,	18	,,	,,	,,	,,	12	,,
,,	1st Dec.	,,	,,	15th Dec	,,	,,	,,	,,	12	,,	,,	,,	,,	22	,,
,,	16th ,,	,,	,,	31st	,,	,,	,,	,,	9	,,	,,		,,	11	,,
									6,184					5,358	
									5,358						
									Balance against India ...	826 lakhs.					

PUBLIC DEBT OFFICE, BANK OF BENGAL,
Calcutta, the 2nd January 1890

(3420—1)

W D CRUICKSHANK,
Secretary and Treasurer

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1889.			
Dec. 23	2 Bundles sheet iron, J in a diamond	Order ...	S. S. "Governor."
,, 23	10 Packages, no mark	Ditto ...	Ditto.
,, 23	2 Bundles hoop iron, 11 white	Ditto ...	Ditto.
,, 23	5 Bars round iron, C P	Ditto ...	Ditto.
,, 23	1 Case, 610 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,, 23	1 Case, A B & Co. in a triangle	Ditto ...	Ditto.
,, 23	1 Crate & Co. in a diamond, J S top	Ditto ...	Ditto.
,, 23	1 Bale, 494 in a triangle, C H L & Co. top ...	Ditto ...	Ditto.
,, 23	2 Pieces lead, Esmeralda or no mark	Ditto ...	Ditto.
23	2 Cases, G D M in a block, B S top	Ditto ...	Ditto.
,, 23	5 Bales, H & Co. in a diamond, M B below ...	Ditto ...	Ditto.
,, 23	1 Truss, R in a diamond, C S outside	Ditto ..	Ditto.
,, 23	2 Cases, S by 229 in a diamond, J below ...	Ditto ...	Ditto.
,, 23	160 Kegs, W L	Ditto ...	Ditto.
,, 23	1 Case, 547 in a diamond, W below	Ditto ...	Ditto.
,, 23	28 Cases, J M	Ditto ...	Ditto.
,, 20	40 Cases, G A & Co. in a diamond, N C T outside ...	Ditto ...	S. S. "Nepaul."
,, 21	6 Packages, C in a triangle, G B top	Ditto ...	Ditto.
,, 28	5 Cases, Behora	Ditto ...	Ditto.
,, 28	1 Case, A M D in a heart, H S K & Co. by Madras below.	Ditto ...	Ditto.
,, 28	1 Case, B B & Co. in a diamond	Ditto ...	Ditto.
,, 28	4 Packages, 8016 in a block, B L B outside ...	Ditto ...	Ditto.
,, 28	1 Case, B & Co.	Ditto ...	Ditto.
,, 28	5 Cases, 3578 in a block	Ditto ...	Ditto.
,, 28	1 Case, 1138 in a diamond, B K L outside ...	Ditto ...	Ditto.
,, 28	1 Case, 25 in a diamond, B K below	Ditto ...	Ditto.
,, 28	1 Case, B B in a diamond	Ditto ...	Ditto.
,, 28	16 Cases, C R	Ditto ...	Ditto.
,, 28	1 Case, C B & Co. by S in a diamond	Ditto ...	Ditto.
,, 28	1 Case, D S & A S	Ditto ...	Ditto.
,, 28	1 Case, Mr. D'Silva	Addressed ...	Ditto.
,, 28	1 Truss, D H in a diamond	Order ...	Ditto.
,, 28	5 Cases, D by 9 in a diamond	Ditto ...	Ditto.
,, 28	6 Packages, E S	Ditto ...	Ditto.
,, 28	1 Case, E B in a diamond, A L below	Ditto ...	Ditto.
,, 28	2 Cases, C H Edgell, Esq.	Addressed ...	Ditto.
,, 28	1 Case, E F in a diamond	Order ...	Ditto.
,, 28	1 Case, F E & K E	Ditto ...	Ditto.
,, 28	2 Cases, F F L by Madras	Ditto ...	Ditto.
,, 28	1 Case, A H Fitcher, Esq., care of Bird & Co. ...	Addressed ...	Ditto.
,, 28	1 Case, F A P	Order ...	Ditto.
,, 28	5 Cases, G 393 in diamond, W M & Co. below ...	Ditto ...	Ditto.
,, 28	1 Case, G S M	Ditto ...	Ditto.
,, 28	1 Case, 972 in a diamond, G S below	Ditto ...	Ditto.
,, 28	1 Case, 951 in a diamond, G S below	Ditto ...	Ditto.
,, 28	2 Cases, H A R & K E	Bux, Ellahie ...	Ditto.
,, 28	1 Case, H M M by O B	Order ...	Ditto.
,, 28	15 Cases, J O & Sons	Ditto ...	Ditto.
,, 28	2 Cases, 2933 in a triangle, J B & Co. top ...	Nash and Andrew.	Ditto.
,, 28	1 Case, J P J	Order ...	Ditto.
,, 28	1 Case, K in a diamond, T C top, W M & Co. below	Ditto ...	Ditto.
,, 28	2 Cases, 600 in a diamond, L S & Co. outside ...	Ditto ...	Ditto.
,, 28	1 Case, L J K in a diamond, K below	Ditto ...	Ditto.
,, 28	1 Case, Miss Linsey, Bhowanipur	Addressed ...	Ditto.
,, 28	2 Cases, L O C K E	Order ...	Ditto.
,, 28	1 Case, L M S in a diamond	Ditto ...	Ditto.
,, 28	1 Case, Longview	Ditto ...	Ditto.
,, 28	2 Cases, G. E Manisty, Esq	Addressed ...	Ditto.
,, 28	1 Trunk, M. W. Aperley, Esq.	Ditto ...	Ditto,
,, 28	1 Case, M in a diamond	Order ...	Ditto.
,, 28	1 Case, E. H. Man, Esq.	Addressed ...	Ditto.
,, 28	1 Case, M S in a block within a triangle ...	Order ...	Ditto.
,, 28	2 Cases, M J A N in a diamond	Ditto ...	Ditto.
,, 28	1 Case, M A in a diamond, D L top	Ditto ...	Ditto.
,, 28	5 Cases, 157 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 28	22 Packages, no mark	Ditto ...	Ditto.
,, 28	75 Cases, 291 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 28	1 Case, no mark or O S & Co.	Ditto ...	Ditto.
,, 28	10 Cases, 295 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 28	10 Cases, 328 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 28	1 Case, N C J in a diamond, G A & Co. outside ...	Ditto ...	Ditto.

Date of removal to Import Warehouse.		Number, mark and description.	Consignees.	hips.
1889.				
Dec.	28	1 Case, O M by 14 L Madras	Order ...	S. S. "Nepaul."
,,	28	1 Case, R B & M I	Ditto ...	Ditto.
,,	28	12 Cases, R B M I in a diamond, G A & Co. outside	Ditto ...	Ditto.
,,	28	32 Cases, 3000 in a triangle, S D & C below ...	Ditto ...	Ditto.
,,	28	1 Case to the Military Secretary to the Viceroy ...	Addressed ...	Ditto.
,,	28	4 Cases, S T & Co.	Order ...	Ditto.
,,	28	2 Bales, S S by 202 in a block	Ditto ...	Ditto.
,,	28	1 Case, S S by 267 in a block	Ditto ...	Ditto.
,,	28	2 Cases, 926 in a diamond, W W & Co. outside ...	Ditto ...	Ditto.
,,	28	1 Case, 539 in a diamond, W below	Ditto ...	Ditto.
,,	28	1 Case, 741 in a diamond, W N & Co. outside ...	Ditto ...	Ditto.
,,	28	1 Case, W L in a diamond, C below	Ditto ...	Ditto.
,,	28	2 Cases, 586 in a diamond, W below	Ditto ...	Ditto.
,,	28	1 Case, 565 in a diamond, W below	Ditto ...	Ditto.
,,	28	3 Packages, 5303 by Y M in a block	Ditto ...	Ditto.
,,	28	1 Parcel, Mr. R. Kennedy	Addressed ...	Ditto.
,,	28	1 Parcel, Revd. J. W. Thomas	Ditto ...	Ditto.
,,	28	1 Parcel, Messrs. J. Skinner & Co.	Ditto ...	Ditto.
,,	27	1 Case, E L M	Order ...	S. S. "Chyebassa."
,,	27	1 Case, 7474 in a diamond, D U F F outside ...	Ditto ...	Ditto.
,,	27	40 Cases, 229 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,,	27	1 Case, A by comp in a triangle	Ditto ...	Ditto.
,,	27	1 Case, A & Co. in a triangle, C & B below ...	Ditto ...	Ditto.
,,	27	31 Cases, B L & Co.	Ditto ...	Ditto.
,,	27	1 Case, 9798 in a diamond, B R & B outside ...	Ditto ...	Ditto.
,,	27	4 Cases, B in a diamond	Ditto ...	Ditto.
,,	27	1 Case, Mrs. Broadhead	addressed ...	Ditto.
,,	27	1 Case, 356 by 264 in a diamond, C B & Co. outside	Order ...	Ditto.
,,	27	3 Cases, 1402 in a diamond, Fort Blair below ...	Ditto ...	Ditto.
,,	27	2 Cases, G F K & Co.	Ditto ...	Ditto.
,,	27	3 Cases, G F K & Co. in a triangle, C & B below ...	Ditto ...	Ditto.
,,	27	3 Cases, G L & Sons in a diamond, G A & Co. outside	Ditto ...	Ditto.
,,	27	2 Cases, 580 in a block, H C B & Co. below ...	Ditto ...	Ditto.
,,	27	1 Case, H M H in a diamond, H S K & Co. below	Ditto ...	Ditto.
,,	27	4 Packages, 340 in a diamond, J B G below ..	Ditto ...	Ditto.
,,	27	1 Bundle case, J D & Co	Ditto ...	Ditto.
,,	27	6 Cases, 220 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,,	30	2 Cases, L O C K E	Ditto ...	Ditto.
,,	30	6 Cases, M D by Scottpur, Blackburn, Patterbund Dhubrudha.	Ditto ...	Ditto.
,,	30	1 Case, M & Co. in a diamond, D below ...	Ditto ...	Ditto.
,,	30	3 Packages, N K in a diamond	Ditto ...	Ditto.
,,	30	38 Packages, no mark	Ditto ...	Ditto.
,,	30	1 Case, 185 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,,	30	1 Crate, P in a triangle	Ditto ...	Ditto.
,,	30	76 Packages, P & Co.	Ditto ...	Ditto.
,,	30	66 Cases, R B & M I in a triangle, C & B below ...	Ditto ...	Ditto.
,,	30	3 Cases, Sir Fred Roberts, care of Major Miley ...	Addressed ...	Ditto.
,,	30	4 Cases, R J D in a diamond, S J S C outside ...	Order ...	Ditto.
,,	30	1 Case, S by C S in a diamond, S J S C outside ...	Ditto ...	Ditto.
,,	30	1 Case, T B	Ditto ...	Ditto.
,,	30	8 Cases, T in a diamond, G below	Ditto ...	Ditto.
,,	30	1 Case, 1367 in a block within a triangle ...	Ditto ...	Ditto.
,,	30	1 Case, 741 in a diamond, T top	Ditto ...	Ditto.
,,	30	2 Cases, V & Co.	Ditto ...	Ditto.
,,	30	1 Case, Watson & Summers	Ditto ...	Ditto.
,,	30	2 Packages, 741 in a diamond, W N & Co. outside	Ditto ...	Ditto.
,,	31	1 Bale, W H by Tarrapur	Ditto ...	Ditto.
,,	31	7 Cases, 273 in a diamond, W T H B below ...	Ditto ...	Ditto.
,,	31	1 Case, 487 in a diamond, W below	Ditto ...	Ditto.
,,	31	2 Cases, 548 in a diamond, W below	Ditto ...	Ditto.
,,	31	3 Cases, C P & Co. in a diamond	Ditto ...	Ditto.
,,	31	1 Case, Mr. J. W. Dougherty	Addressed ...	Ditto.
,,	31	7 Casks, Messrs. Kilton & Co.	Ditto ...	Ditto.
,,	31	1 Case, Messrs. Lyall, Marshall & Co.	Ditto ...	Ditto.
,,	31	1 Case, 938 in a diamond, O below	Order ...	Ditto.
,,	31	1 Case, G & Co. in a triangle	Ditto ...	Ditto.
,,	31	1 Case, P L & Co. in a diamond, C C Colombo below.	Ditto ...	Ditto.
,,	31	1 Case, George Reid, Esqr.	Addressed ...	Ditto.
,,	31	4 Cases, T in a diamond, H below	Order ...	Ditto.

The 6th January 1890. (3424—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 30th December 1889.

LIABILITIES.	Rs.	A.	P.	ASSETS.	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0	Government Securities	19,48,204	0	0
Reserve Fund	58,00,000	0	0	Other authorized Investments	79,20,099	12	0
Public Deposits at Head Office ... ... Rs. 93,39,214 8 11				Loans on Government and other authorised Securities	1,17,06,394	15	10
Ditto ditto at Branches ,, 67,45,972 5 4	1 60,85,186	14	3	Accounts of credit on ditto ditto	1,01,14,640	3	4
Other Deposits at Head Office and Branches	3,34,28,778	12	11	Bills discounted and purchased	2,32,65,197	2	2
Bank Post Bills, &c.	2,63,786	11	4	Balances with other Banks	13,58,680	9	11
Sundries	15,20,692	6	9	Bullion	4,24,300	14	11
				Dead Stock	12,41,537	2	8
				Stamps	11,087	1	0
				Sundries	99,367	4	5
					5,80,89,509	2	3
				Cash and Currency Notes at Head Office ... Rs. 90,57,725 14 9			
				Cash and Currency Notes at Branches ... ... ,, 99,51,209 12 3	1,90,08,935	11	0
Rupees ...	7,70,98,444	13	3	Rupees ...	7,70,98,444	13	3

BANK OF BENGAL,
Calcutta, 2nd January 1890.

R. L. BIRD, Chief Accott.
Rate for Demand Loans 6 per cent.
Percentage 37·05.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.

(3416 - 1)

IT is hereby notified that the following properties belonging to the judgment-debtors (Baboo Radhe Kishun Lall Sand, Mussamut Jiwana *Bahoo*, and Mahboob Lall, major son, and Khub Lall, Ajoob Lall, and Pancham Lall *alias* Tooni Baboo, minor sons, and Mussamut Lali Bibi, minor daughter of Baboo Balkrishn Lall Sand, deceased, under the guardianship of aforesaid Mahboob Lall) will be sold by public auction in the Court of the District Judge of Tirhoot, at 12 o'clock on the 15th day of January 1890, in the execution of decree No. 181 of 1888, *in re* Balkrishun Dass and others, decree-holders, *versus* Radhe Kishun Lall Sand and others, judgment-debtors, for realisation of decree debts, Rs. 1,14,912-7.

Serial No.	Names of villages, with pergunnah, thana and district.	Area.	Government revenue.	Extent of share to be sold.	Estimated value.
		A. R. P.	Rs. A. P.	A. G. C.	Rs. A. P.
1	Mouzah Sultanpur asli and mouzahs Nainpoorba, Sharifabad, and dowal Bindrabun dar dakhli with known and unknown *talas*, pergunnah Hajipur, bearing towji No. 1226 old and No. 3590 recount, within the police-station Mahnar, district Mozufferpur.	1,003 0 25	1,075 3 2	8 0 0	9,100 0 0
2	Mouzah Acaz Chak, appertaining to mehal Sultanpur, pergunnah Hajipur, bearing towji No. 1226 old and No. 3590 recent, within the police-station Mahnar, district Mozufferpur.	646 3 30	1,075 3 2	8 0 0	5,900 0 0

Mozufferpore, the 4th January 1890. (3422—1) UPENDRA CHANDRA MULLICK, Subordinate Judge.

IT is hereby notified that the following properties belonging to the judgment-debtor (Bhagwat Pershad Singh) will be sold by public auction by the Nazir of the District Judge of Tirhoot on the 15th day of January 1890, in the Court-house, in execution of a decree held by Raghoobardyal Choudhry for the realization of Rs. 2,545-10-3

Serial number.	Names of the villages with pergunnahs.	Area.	Government revenue.	Extent of share to be sold.	Estimated value as stated by decree-holder.
		A. R. P.	Rs. A. P.	A. G. C. K. D.	Rs.
1	Taluka Mohunpore asli with mouzah Rutunpore dakhli, pergunnah Balagach, bearing former towji No. 53 and present towji No. 402, within the jurisdiction of police-station, sub-registry and district Durbhunga.	1,597 0 5	3,244 9 3	1 6 2 2 0	1,000
2	Mouzah Balkoonthpore, appertaining to Taluka Mohunpore, pergunnah Balagach, bearing former towji No. 53 and present towji No. 402, within the jurisdiction of police-station, sub-registry and district Durbhunga.	948 2 3	3,244 9 3	1 6 2 2 0	100

(3412—1) GIRIS CHUNDER CHOUDHRY, Subordinate Judge, 1st Court.

Notices of deaths sent to the Administrator-General of Bengal under Section 64 of Act II of 1874.

Name of deceased.	Place of death.	Date of death.	By whom and when death reported.	REMARKS.
Alfred William Sylvester.	Phalera, Rajpootana ...	29th July 1889 ...	Resident at Jeypore, on the 14th October 1889.	Intestate. Assets about Rs. 981-8-11. No application for administration.
Stephen Byrne	Howrah	7th ,, ,, ...	District Judge of Hooghly, on the 12th December 1889.	Intestate. Assets about Rs. 10-9-6 The deceased was a sailor. No application for administration.
William Alexander Sanderson.	Quetta	10th Oct. ,, ...	Political Agent, Quetta and Peshin, on the 7th December 1889.	Will. Assets about Rs. 850. Deceased was a driver on the North-Western Railway. Mr. Thomas Russel, Executor of the Will, has applied for probate.
M. M. F. Williams	Futtehpur	24th Nov. ,, ...	Judge of Cawnpore, on the 16th December 1889.	Will. Mr. A. Sell, C.S., District Judge of Meerut, Executor. The Administrator-General of Bengal will probably administer.
C. Jackson	Mahkuti Factory, Assam	10th ,, ,, ...	Deputy Commissioner of Sibsagor, on the 7th December 1889.	Informal Will. Assets above Rs. 1,000. Deceased was Manager of the Mahkuti Factory of the Assam Tea Company. No application for administration.
C. E. Gordon	Allahabad	2nd ,, ,, ...	Judge of Allahabad, on the 18th December 1889.	Intestate. Assets about Rs. 347-6-3. No application for administration. Deceased has a brother, Mr. E. Gordon, Poona.
Mollison	Serajgunge	15th ,, ,, ...	District Judge of Pubna and Bogra, on the 17th December 1889.	Intestate. Assets about Rs. 3,681-5. Relatives in Scotland. No application for administration.
S. Butcher	Chybasa	23rd ,, ,, ...	Deputy Commissioner of Singbhoom, on the 21st December 1889.	Will. Assets about Rs. 837. Executor Mr. Tuther. No application for probate.

1, COUNCIL HOUSE STREET,
Calcutta, the 6th January 1890.

L. P. D. BROUGHTON,
Administrator-General, Bengal.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sâl beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 „ „ 2-12 „
23 „ „ 2-14 „
24 „ „ 3 „

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 „ 2-4 „
Under 7 feet „ 2 „

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Notice.

THE public are hereby informed that a Fair will be held at Falakata, in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 23rd January 1890 (A.D.) corresponding with 11th Magh 1296 (B.S.), and will continue up to 6th February 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets, cloth of sorts, ivory, wool, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet, as also rice, paddy, jute, cotton, tobacco, mustard seed, wheat and other crops, which are grown in the Western Dooars, will be available at the Fair. Falakata is on the left or east bank of the Mujnai river, and within easy reach of Julpigoree and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 10th December 1889.

Notification.

THE Zamindari Dâk Tax in the district of the 24-Pergunnahs for the year 1890-91 is fixed at the rate of eight annas per cent. per annum on the sudder jumma of estates paying a revenue amounting to Rs. 50 and above

The amount due for each estate is payable in two instalments, the first being due on the 1st June 1890, and the 2nd on the 16th December 1890.

A. FORBES, Magistrate of 24-Pergunnahs.

Notice.

THE public are hereby informed that a Fair will be held at Santrabari, at the foot of the Buxa hills in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 10th January 1890 (A.D.) corresponding with 29th Pous 1296 (B.S.), and will continue up to 20th January 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets and cloth of sorts, yak tails, wool, ivory, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet will be available at the Fair. Santrabari is within easy reach of Mogul Hât Railway station and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 7th December 1889.

Notice.

I, GIRIJAMANI DEBYA of Saydabad, Hotarpara, in the town of Berhampore, district Moorshedabad, police-station Sujaganj, do hereby declare that I have appointed my dear Baboo Sita Kanta Mukharji, son of late Baboo Kamala Kanta Mookharji, my sole general agent and manager for all my properties in this and Dinagepore and other districts to the entire exclusion of all others, and I hereby declare that I shall not be responsible for the doings of any other person than those of Baboo Sita Kanta Mukharji.

SREEMATTY GIRIJAMANI DEBYA.
SITA KANTA MUKHARJI, Am-Mukhtar.
(3368—3) Zemindar.

Road Cess Notification.

DISTRICT BOGRA.

IT is hereby notified for general information that under section 46, Act III (B.C.) of 1885, and section 38, Act IX (B.C.) of 1880, the District Board of Bogra have, at an adjourned Special Meeting held on the 28th December 1889, determined that the road cess in the district, for the cess year 1890-91 (from 1st April 1890 to 31st March 1891), shall be levied at the maximum rate, viz. one-half anna on each rupee of the annual value and annual net profits as described in section 6, Ac IX (B.C.) of 1880.

H G. SHARP, Chairman, District Board of Bogra.
Bogra, the 30th December 1889.

Notice.

THE post of the Serishtadar of the Munsif's Court, Kulna, is vacant. Salary Rs. 40 rising to Rs. 60 by biennial increment of Rs. 2. Applications, with copies of testimonials, will be received up to 15th proximo.

R. F. RAMPINI, District Judge.

District Judge's Office, Burdwan, the 30th December 1889.

Notice.

WANTED an Overseer for the Dinagepore Municipality. Salary Rs. 45 and horse allowance Rs. 10 a month. Passed Overseers of the Public Works Department, with experience in municipal works, are only required to apply. Applications will be received by the undersigned up to 25th January 1890.

SITAKANT MOOKERJEE, Vice-Chairman.
Dinagepore, the 27th December 1889. (3406—3)

Notice.

WANTED a Civil Court Ameen for the district of Manbhoom on a salary of Rs. 50 per mensem.

Candidates must possess a thorough knowledge of English, Bengali, and Surveying, besides holding a diploma of having passed the junior grade Pleadership examination as required by the High Court's Circular No. 24 of November 1868.

Applications will be received up to the 10th proximo.

E. N. BAKER, Deputy Commissioner, Manbhoom.
Manbhoom, Deputy Commr.'s Office, the 23rd December 1889.

WANTED a Native Doctor, on Rs. 30 a month, for the Colgong Municipal Dispensary. Applications with copies of testimonials and diploma will be received by the undersigned up to 20th January 1890.

(3411—3) A. A. WACE, Magistrate.

Wanted

A DRAUGHTSMAN with a knowledge of surveying, who can plot from field books kept in English. Salary Rs. 40 to Rs. 60 according to qualifications. Applications in candidates' own handwriting, and copies of testimonials, to be submitted to—

Municipal Engineer, Patna.

(3419—2)

In the Court of the Subordinate Judge at Monghyr.

EXECUTION CASE No. 215 OF 1889.

Tarachand and others, decree-holders, *versus* Tokhan Singh and others, judgment-debtors.

THE following property of the judgment-debtors shall be sold at public auction by the Nazir of this Court on the 13th January 1890 at 12 noon :—

One anna right and interest of Ajodhya Prasad Singh, judgment-debtor, in mehal Juwas, pergunnah Salemabad, bearing towji No. 13 and sudder jumma of Rs. 613-14-0, thana Soorjgurrah, sub-registry Lakhesserai.

GRISH CHANDER CHATTERJEE, Subordinate Judge,

(3414—1) Monghyr.

Notice.

In the Court of the District Judge of Purneah.

EXECUTION CASE NO. 78 OF 1889.

Syud Mehdi Hossain and others of Rosulpur, pergunnah Badour, decree-holders, *versus* Syud Safdar Reza of Deodhi, Kishengunge, judgment-debtor.

TO be sold by the Nazir of the District Judge's Court, Purneah at 11 A.M. on 3rd February 1890, in the District Judge's Nazarat, the right, title, and interest of the abovenamed judgment-debtor in the property named below for realization of a mortgage decree amounting to Rs. 39,341-1-6 :—

One anna five gandas two kowrees and two krants share of pergunnah Surjapur, belonging to Syud Safdar Reza, judgment-debtor, bearing towji No. 7, and paying Government revenue Rs. 18,984-3-5¼, sub-registry Kishengunge and Kaliagunge, in the district of Purneah; approximate value Rs. 30,000

F. B. TAYLOR, District Judge.

Purneah, the 31st December 1889.

(3421—1).

Uncovenanted Service Family Pension Fund.

NOTICE.

THE Fifty-second Annual General Meeting of Subscribers of the above Institution will be held in the Town Hall, on Wednesday, the 29th January 1890, at 3 P.M., to receive the report of the Directors and to consider such matters as may then be submitted.

By order of the Directors,

W. H. RYLAND, Secretary.

Calcutta, the 31st December 1889. (3415—3)

CERTAIN personal property consisting of cloths, &c, belonging to late Mr. Forbes, are found intestate. Notice is hereby given inviting the persons claiming the property to take letter of administration and apply for the same to the undersigned.

GUNGA NAND MOOKHERJEA,

For Deputy Commissioner of Manbhoom.

Road-cess Notification.

DISTRICT BACKERGUNGE.

IT is hereby notified for general information that under section 46 of Act III (B.C.) of 1885, the District Board of Backergunge have, at a Special Meeting, held on the 21st December 1889, determined that the road-cess for the next cess year 1890-91, shall be levied at half of the maximum rate, *i.e.*, one pice a rupee on the annual value of land.

ROJONI KANTA DASS, Vice-Chairman.

Dinagepore District Board.

SIX PER CENT. LOAN.

THE Dinagepore District Board have resolved, with the permission of the Lieutenant-Governor of Bengal, to borrow Rs. 10,000 (out of two lakhs of rupees) during the current financial year (1889-90) for construction of permanent bridges in their district roads on security of the District Fund formed under Act III (B.C.) of 1885, detailed accounts of which for last two years were published in the *Calcutta Gazette*, Part IB, page 164, dated 7th August 1889.

2. Tenders for the whole or any part of the said amount of Rs. 10,000 will be received by the Vice-Chairman of the Board from this date to Friday, the 31st January 1890. Tenders must be in sums of Rs. 500) or multiples of Rs 500.

3. Each tender must be addressed in the form annexed herewith to the Vice-Chairman, and enclosed in a closed and sealed cover superscribed "Tender for Loan." If the tenderer is not resident in India, he must name an agent resident in India, to whom a letter of allotment may be issued if any part of the loan is allotted to such tenderer.

4. Each tender must be accompanied by deposit money, at a rate of 5 per cent on the amount tendered, to be sent by postal money-order, and the money-order receipt must be filed with the tender. Deposits will, in the case of accepted tenders, be credited proportionally in part payment of the allotment certificates issued in respect of the tender. If any allotment certificate is not fully taken up, the deposit will be forfeited.

5. The rate at which a tender is made must not contain a fraction of an anna : if a rate containing a fraction of an anna is inserted in any tender, such fraction will be struck out, and the tender treated as if the rate did not contain such fraction of an anna.

6. The rate at which each tender is made must be specified in rupees, or rupees and annas. A tender in which no rate is thus specified, but a subscription is offered in some other terms, *e.g.*, at the recorded minimum, or at some specified percentage in addition to the recorded minimum, or at the average of the accepted tenders, will be rejected as null and void.

7 Tenders will be opened publicly by the Vice-Chairman at the Dinagepore Magistracy on Saturday, the 1st February next, at noon (Calcutta time).

8. Tenders at the minimum rate will be accepted in the order of the rates tendered, beginning with the highest rate. The amount allotted at the lowest rate at which tenders are accepted will be divided amongst those who have tendered at this rate in proportion, as nearly as may be found convenient, to the amounts of their tenders, provided that no allotment will be issued if the amount distributable on any tender is less than Rs. 500.

9. To each tenderer (or to his agent) whose tender is accepted in whole or in part, such number of allotment certificates as may be necessary to make up the aggregate amount allotted to him will be issued by the Vice-Chairman as soon as possible after the tenders have been accepted, and a list of the names of those to whom such allotment certificates are issued will be posted for general information at the District Board's Office.

10. Payment of any allotment certificate is to be made in credit of the District Fund at the Dinagepore Treasury.

Form of Tender

I, A B., hereby tender for Rs. (Rs. ,) of the six per cent. loan advertised in the *Calcutta Gazette*, dated , and agree to pay for the same subject to the condition mentioned in the advertisement, at the rate of Rs. As. for every hundred rupees allotted to me.

I enclose a money-order receipt for deposit money for Rs sent to the address of the Vice-Chairman of the Dinagepore District Board.

Any allotment made to me may be communicated to at

NOTE.—A separate tender must be made at each rate tendered The rate tendered should be the whole amount per centum, not the premium or discount: thus "one hundred and two" or "one hundred." or "ninety-nine," not "two per cent. premium" or "par" or "one per cent. discount."

(3413—3) C. R. MARINDIN, Chairman.

New Beerbhoom Coal Company, "Ld."

PROCEEDINGS of the Thirty-third Ordinary General Meeting of the Shareholders, held at the Office of the Company, No. 1, Hastings' Street, on Saturday, the 4th January 1890, at noon :—

PRESENT :

J. N. Stuart, Esq. | P. F. Hodger, Esq.
David Cowie, Esq. | D. King, Esq.
A. R. McIntosh, Esq. | S. Heslop, Esq.

Lieut.-Col. H. T. S. Yates, R.A. ... ... By his Attorney A. B. Stewart, Esq.

John Pendlebury, Esq. ... By his Attorney A. R. McIntosh, Esq.

E. N. Grace, Esq. ... By his Attorney I. H. Heckle, Esq.

T. H. Cowie, Esq., Q.C. ..
H. C. Erskine, Esq. ...
General C. H. Blunt, C.B. } By their Attorney David Cowie, Esq.
Mrs. G. H. Hatchard ..
„ M C Smith ..

Henry Blunt, Esq., deceased By his Executor David Cowie, Esq.

N. S. Sweedland, Esq., deceased ... ... By his Administrator David Cowie, Esq.

The advertisement calling the meeting having been read, and the Report of the Directors with Statement of Accounts for the half-year ending 31st October 1889 having been submitted and taken as read—

It was proposed by J. N. Stuart, Esq.

Seconded by David Cowie, Esq.

and carried unanimously—

That the Directors' Report and Accounts for the half-year ending 31st October 1889, which have been printed and circulated among the Shareholders, be adopted and passed as satisfactory.

It was proposed by Lieut.-Colonel H. T. S. Yates, R.A., by his Attorney A. B. Stewart, Esq., seconded by E. N. Grace, Esq., by his attorney I. H. Heckle, Esq, and carried unanimously—

That the sum of Rs. 1,42,440-1-2, standing at the credit of Profit and Loss Account, be appropriated in manner following :—

	Rs.	A.	P
Dividend at the rate of Rs 14 per share	1,00,800	0	0
Managing Agents' commission at 10 per cent per share ...	10 080	0	0
Manager's commission at 5 per cent. per share . ..	5,040	0	0
Directors' commission at 1 per cent. per share	1,008	0	0
Reserve fund	5,000	0	0
Wear and tear account ..	10,000	0	0
Carried forward to next half-year	10,512	1	2
	1,42,440	1	2

It was proposed by T. H. Cowie, Esq., Q.C., by his Attorney David Cowie, Esq.

Seconded by S. Heslop, Esq.

and carried unanimously—

That Messrs. J. N. Stuart and D. King be re-elected as Directors.

With a vote of thanks to the Chair the meeting separated.

(3423 —1) J. N. STUART, Chairman.

Notice.

IT is hereby notified for general information that the District Board of Tipperah, in compliance with the wishes of Government, have established two scholarships at Rs. 15 each, tenable for one year at present, at the Sibpore Engineering College. Those willing to take up any particular branch of study, and attend the workshops attached to the College, are requested to send in their applications on or before the 20th March 1890, to enable the undersigned to award the scholarships on the 1st April 1890 Successful candidates will have to contract for service under the District Board.

H. M. WEATHERALL, District Board, Tipperah.

In the Court of Baboo Saroda Prasad Chatterjee, Roy Bahadur, Sub rdinate Judge of Sarun.

EXECUTION CASE No. 194 OF 1889.

Pertap Singh and Soudagar Singh, decree-holders, *versus* Isri Prasad Singh, judgment-debtor.

TO be sold in the above case by the Nazir of the District Judge's Court of Sarun, at 12 A.M. on the 6th day of January 1890, for the satisfaction of the decree, Rs. 6,506-10—

1. Six annas out of one anna twelve krant sixteen massnt treated as sixteen annas of mouzah Pithouri, with tolah Maya Panday, appertaining to mehal Pithouri, pergunnah Bal, bearing towji No. 798, within the jurisdiction of thana Chupra, registration Chupra ; sudder jumma Rs. 532-8-6½ ; approximate value Rs. 25; road cess Rs. 3-8 ; collection expenses Rs. 2-8 ; net produce Rs. 3.

2. Six annas out of one anna twelve krant treated as sixteen annas of mouzah Benout, appertaining to mehal Pithouri, pergunnah Bal, bearing towji No. 798, chouki Ekma, registration Chupra ; sudder jumma Rs 532-8-6½ ; approximate value Rs. 10 ; road cess Rs. 3 ; collection expenses Rs. 1-8 ; net produce Rs. 4.

3. Six annas out of two annas 2¾ pies treated as sixteen annas of mouzah Birti, appertaining to mehal Pithouri, pergunnah Bal, bearing towji No. 798, chouki Ekma, registration Chupra ; sudder jumma Rs. 532-8-6½ ; approximate value Rs. 2; road cess Rs. 3 ; collection expenses Rs. 2 ; net produce Rs. 2.

4. Six annas out of three annas four pie treated as sixteen annas of mouzah Sarea, appertaining to mehal Pithouri, pergunnah Bal, bearing towji No. 798, within the jurisdiction of thana Chupra, registration Chupra ; sudder jumma Rs. 532-8-6½ ; approximate value Rs. 10.

5. Six annas out of one anna twelve krant treated as sixteen annas of mouzah Masihan tolah, appertaining to mehal Pithouri, pergunnah Bal, bearing towji No. 798 ; sudder jumma Rs. 532-8-6½ ; approximate value Rs. 5 ; road cess Rs. 2 ; collection expenses Re. 1 ; net produce Rs. 2.

6. Six annas out of three annas two pie treated as sixteen annas of mouzah Lana, pergunnah Bal, appertaining to mehal Lana, pergunnah Bal, bearing towji No. 673, chouki Baniapur, within the jurisdiction of thana and registration Chupra ; sudder jumma Rs. 817-1-1½ ; approximate value Rs. 10 ; road cess Rs. 3-8 ; collection expenses Rs. 1-8 ; net produce Rs. 4.

7. Six annas out of three annas two pie eight krant treated as sixteen annas of mouzah Mohamedpur, appertaining to mehal Lana, pergunnah Bal, bearing towji No. 673, chouki Baniapur, within the jurisdiction of thana and registration Chupra ; sudder jumma Rs. 817-1-1½ ; approximate value Rs. 10 ; road cess Rs. 3-8 ; collection expenses Rs. 1-8 ; net produce Rs. 4.

8 Six annas out of three annas two pie eight krant treated as sixteen annas of mouzah Bhawaninagar appertaining to mehal Lana, pergunnah Bal, bearing towji No. 673, chouki Baniapur, within the jurisdiction of thana and registration Chupra ; road cess Rs. 3-8 ; collection expenses Rs. 1-8 ; net produce Rs. 4 ; sudder jumma Rs. 817-1-1½, approximate value Rs. 10.

SARODA PRASAD CHATTERJEE, Subordinate Judge.

(3410—1)

Notification.

A MONUMENT in the Faridpur cemetery, to a child of the name of Burt, needs repair. The friends of the deceased are therefore requested to inform the undersigned if they are willing to repair it.

PURNO CHANDRA RAI, Dy. Magistrate in charge, for Magistrate.

FARIDPUR MAGISTRATE'S OFFICE, the 3rd January 1890.

MR. S. S. COOPERS is authorized to sign our firm per procuration from this date.

CROFT, WELLS & Co.

1, Clive Row, 1st January 1890. (3418—3)

WE have this day admitted Mr. David Hynd as a partner in our firms.

KOCH & PERMAN.
SIMON KOCH & Co.

Calcutta, the 1st January 1890. (3417—2)

The Majagram Tea Company, "Limited."

Passed 14*th December* 1889. *Confirmed* 4*th January* 1890.

AT an Extraordinary General Meeting of the Majagram Tea Company, "Limited," duly convened and held at the Registered Office of the Company, No. 4, Mangoe Lane, Calcutta, on the 14th day of December 1889, the subjoined special resolutions were duly passed, and at a subsequent Extraordinary General Meeting of the said Company, also duly convened and held at the same place on the 4th day of January 1890, the subjoined special resolutions were duly confirmed :—

1*st*.—"That it has been proved to the satisfaction of this Meeting that the Company cannot, by reason of its liabilities, continue its business, and that it is advisable to wind up the same, and accordingly that the Company be wound up voluntarily."

2*nd*.—"That Mr. A. S. Lovelock be appointed Liquidator on a remuneration of Rs. 250 (two hundred and fifty rupees) only."

WILLIAMSON, MAGOR & Co., Secretaries.
(3426—1)

Holta Tea Company, Limited.

NOTICE is hereby given that an Extraordinary General Meeting of the Holta Tea Company, Limited, will be held at the Registered Office of the Company, No. 5, New China Bazar Street, in the Town of Calcutta, on Wednesday, the 22nd day of January instant, at the hour of 12 o'clock at noon, for the purpose of considering and passing resolutions confirming the purchase by the Company of the "Chota Bundla" Tea Estate, and of authorizing the Directors to execute for and on behalf of the Company, and to affix the seal of the Company to a mortgage over the said Chota Bundla Tea Estate, to secure to the vendor the balance of the purchase-money thereof.

By order,
MITCHELL, REID & Co, Secretaries.
Dated the 6th January 1890. (3427—1).

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of CHUNDER CHURN DASS and another, insolvents.

On Saturday, the 7th day of December last, it was ordered that the hearing of this matter do stand adjourned until Saturday, the 11th day of January instant, and that the order made in this matter for the *ad interim* protection of the said insolvents from arrest be enlarged to the said 11th day of January instant, and that the said insolvents be and they are at liberty to file an amended estate paper, and that the said insolvents do then attend to be examined before the said Court.

Insolvents in person. (3428—1)

In the matter of BULLORE S. D. COHEN, an insolvent.

On Saturday, the 4th day of May last, by an order of this Court, the said insolvent was adjudged entitled to her personal discharge under the Act XI Vic, Chapter XXI as to all persons named in her schedule as creditors or claiming to be creditors respectively.

O. J. Gangooly, Attorney. (3429—1)

In the matter of SIMON S. D. COHEN, an insolvent.

On Saturday, the 4th day of May last, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

O. C. Ganguly, Attorney. (3430—1)

In the matter of CHARLES RODRIGUES, an insolvent.

On Saturday, the 23rd day of November last, it was ordered that, subject to payment to Albert Birmingham Miller, Esq., the Official Assignee of this Court, and the Assignee of the estate and effects of the said insolvent, of his usual commission and all costs and charges lawfully due, the petition filed by the said insolvent seeking for relief under the provisions of the said Act be dismissed, and the vesting order made thereon be discharged, provided always that all acts or things done by the said Assignee or other person acting under his authority prior to this order shall be good and valid, and shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvent upon his receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvent.

Insolvent in person. (3431—1)

In the matter of BRIJBHUKUN DASS, an insolvent.

On Wednesday, the 4th day of September last, it was ordered that, subject to payment to Albert Birmingham Miller, Esq., the Official Assignee of this Court, and the Assignee of the estate and effects of the said insolvent, of his usual commission and all costs and charges lawfully due, the petition filed by the said insolvent seeking for relief under the provisions of the said Act be dismissed, and the vesting order made thereon be discharged, provided always that all acts or things done by the said Assignee, or other person acting under his authority prior to this order, shall be good and valid, and shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvent upon his receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvent.

N. C. Roy, Attorney. (3432—1)

In the matter of KRISTODHONE GHOSE and others, insolvents.

On Saturday, the 7th day of December last, it was ordered that the order of adjudication against the said insolvent, made in this matter on the 9th day of April last, is revoked, and the vesting order made thereon is discharged, provided always that all acts or things done by Albert Birmingham Miller, Esq., the Official Assignee of this Court, and the Assignee of the estate and effects of the said insolvents, or other person acting under his authority prior to this order, shall be good and valid, and, shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvents upon their receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvents.

U. C. Dutt, Attorney. (3433—1)

In the matter of GREES CHUNDER MOOKERJEE and another, insolvents.

On Saturday, the 7th day of December last, it was ordered that the order of adjudication against the said insolvents, made in this matter on the 26th day of February last, is revoked, and the vesting order made thereon is discharged, provided always that all acts or things done by Albert Birmingham Miller, Esq., the Official Assignee of this Court, and the Assignee of the estate and effects of the said insolvents, or other person acting under his authority prior to this order, shall be good and valid and shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvent Grees Chunder Mookerjee upon his receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvents.

C. F. Pittar, Attorney. (3434—1)

IN the matter of HURRY CHURN PAUL and others, insolvents.

On Monday, the 16th day of December last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the first day of February next, and that the said insolvents do then attend to be examined before the said Court.

Insolvents in person. (3435—2)

IN the matter of ARTHUR MILSON HOUGHTON, an insolvent.

On Saturday, the 21st day of December last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the first day of

February next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3436—2)

In the matter of ARTHUR MILSON HOUGHTON, of No. 40, Dhurrumtolla Street, in the town of Calcutta, late a commission agent and order supplier, at present without any work, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Saturday, the 21st day of December last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3437—1)

In the matter of HURRY CHURN PAUL, GANODA PROSAUD PAUL, MUGNO CHUNDER PAUL, and NIBA PADO PAUL, lately carried on business in co-partnership as dealers in Cocoanut Oil at Halsi-Bagan in Calcutta, but now residing at Rajah Brojendro Narain Roy's Street in Calcutta aforesaid, insolvents.

Notice that the petition of the said insolvents seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Monday, the 16th day of December last, and by an order of the same date, the estate and effects of the said insolvents were vested in the Official Assignee.

Insolvents in person. (3438—1)

Chief Clerk's Office, the 7th January 1890.

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	14th Jan.	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	13th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	13th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	13th ,, ...	Ditto.
Colombo	8th ,, ...	Per P. & O. steamer *Rohilla*
Straits, China and Japan ...	13th ,, ...	Per str. *Moray*.
Rangoon and Moulmein ...	8th ,, ...	Ditto *Kistna*.
Ditto ditto ...	10th ,, ...	Ditto *Madura*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	8th ,, ...	Ditto *Madras*
Port Blair	16th ,, ...	Ditto *Maharani*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 7th January 1890.

Unclaimed Letters held in the Calcutta General Post Office on 7th January 1890.

Brown, A.
Murray, C.
Sinclair, Hamilton & Co.
Temple, F.
Wroughton, W. R. & Co.

Letters marked Care of "Post Office."

Annfield, F.
Atkinson, F. S.
Atkinson, A.
Barker, F. W.
Barrington, H. E. W.
Bates, Miss E. K.
Bather, H. R.
Baxter, Mrs.
Behan, J. L.
Belitski, R
Bennett, J. J. T.
Berkeley, C. M.
Boland, J.
Bolton, J. M. L.
Brownlow, Miss.
Brown, W.
Bruce R. G.
Burrows, C. J.
Carrapaett, Mr.
Carroll, J.
Charles, R.
Chatterton, J.
Comar, Mrs. A.
Cooper, H. J.
Cooper, W.
Corfuld, Capt.
Cornelius, H.
Courage, R.
Courtney, F. S.
Curzon, Hon'ble A. U.
Davis, Mrs. G.
Dickson, Mrs. E.
DeMouron, Pierre.
Drakeford, A.
Dunlo, Viscount.
Douglas, G. P. H.
Duclere, G. P.
Elliott, K.
Fisk, F M.
Fletcher, Neil.
Fowler, Miss.
Fraiser, H. C.
Francis, A. M.
Freedman, J. J.
Gellett, Cecil S.
Glover, W. E.
Godwin, George.
Gracewood, Geo.
Greve, E. C.
Green, W. W.
Hamilton, J. R.
Horns, Miss M.L.
Hardy, Mrs. M.
Hawksworth, Mrs.
Heseltine, H. H.
Hewett, A. B.
Higgins, C. C.
Hilton, R. W.
Hodge, Mrs. George.
Keane, J. J.
Kleine, Henri.
Lach, R.
Lamb, E. G.
Landie, Miss E.
Leatham, A. E.
Livermore, H. A.
Levinge, Sir William.]
Livesay, T.
Lindeman, L. K.
Livewright, R.
Lloyd, Willis.
Long, W.
Lyons, G. B. C.
Maitland, A.
Major, A.
Mathewson, F.
Mackenzie, J.
Mallite, O. W.
Matthews, J. R.
Millett, G. G.
McAdoo, Mr.
McKenzie, Mrs D.
McNair, Miss.
Menzies, C.
Meyer, A. T.
Miller, G.
Morshead, L.
Murphy, John.
Newby, C. R. A.
Ogden, J.
Palmer, Mrs. M.
Percival, Percy.
Platts, Mrs. S. K.
Powell, F.
Prenter, Miss.
Rennard, J. R.
Ricket, Mrs
Robins, J.
Rogerson, Miss A.
Rubie, Phil C.
Salomon, C.
Sano, T.
Shwartz, L.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Smith, M. O.
Smith, R.
Soares, F. H.
Steinhart, Mr.
Sutton, H. C.
Sweet, L.
Taylor, C.
Thomas. G. T.
Thompson and Co.
Tomkyns, Geo.
Uphill, T.
Waddell, Alex.
Walter, F.
Walter, Amherst.
Westmacott, H. H.
Williamson, C.
Woodhouse, G.

Registered Letters.

Aitkin, D,
Bennett, J. J. T.
Edwards, C.
Eglinton, C. A.
Guiseppe, Celestini.
Hogens, Charles.
MacLeod, D. J.
Marsland, W,
Wallace, Miss H.
Westmacott, F. H.
Whittaker, Hariet.

Unclaimed Letters held in the Barrackpore Post Office on the 6th January 1890.

Adie, Miss M. J.
Brown, Miss.
Cowie, J.
Duff, J. U.
Feddy, Miss C. S.
Fergusson, H. F.
Harrison, Rev. H. J.
Hitch, E. H.
Howatson, Mrs. F.
Hudson, Mrs. M. E.
Marvey, Mrs. H.
Parker, C. F.
Simpson, Dr. R. J.
Trusham, Miss.

E. HUTTON,

Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 3rd January 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	1 9	At mouth entrance practically closed.
	Thence to Nurpur	2 0	Tiktikipara.
	From Nurpur to Jungipur ..	2 3	Nurpore.
	,, Jungipur to Berhampur	1 6	Berhampore.
	,, Berhampur to Cutwa ...	2 3	Moshimpore.
	,, Cutwa to Nuddea ...	2 9	Nidoy.
Bhyrub-Jelinghi.	Entrance from Ganges ...	9 0	
	Thence to Akriganj ..	8 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 0	Junction Patkabari.
	Thence to Patkabari	5 6	
	Patkabari to Nuddea	4 6	Punditpore.
Matabanga.	Entrance from Ganges ...	2 6	
	Thence to Chuypara	0 10	Sircarpara.
	From Chuypara to Shikarpur	1 3	Pragpore.
	,, Shikarpur to Boalia ..	1 6	Sampore.
	,, Boalia to Chuadanga ..	3 0	Sulmari.
	,, Chuadanga to Kissengunj and Hanskhali .	3 0	Bastupore.

Gauge Readings.

	Locality.	Date	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet.	Feet.	
Ganges.	Sahebganj .	4-1-90	6	0 10	68 16	
	Rampore Boalia	4-1-90	12	2·92	44·92	
	Entrance of Bhagirati	4-1-90	7	3 65	48 96	
	Entrance of Bhyrub-Jelinghi ..	4-1-90	...	3·10	46·52	
	Entrance of Matabanga .	4-1-90		3·25	..	
Bhagirati...	Berhampur ..	6-1-90	12	3·42	37·21	
Jelinghi .	Kishnaghur ...	3-1-90		4·84	13·73	
	Saroopgunge ...	3-1-90	6	4·08	8·38	
Matabanga	Hanskhali ...	3-1-90	...	4 50	15 35	

PURNA CHANDRA BOSE,
for Exe. Engr., Nuddea Rivers Division.

Berhampore, the 6th January 1890.

AT the Meteorological Office, No. 5, Russell Street, the following official publications:—

Meteorological Report of	1867 ...	Rs.	0	12	per copy.
Ditto ditto	1868 ...	,,	1	8	,,
Ditto ditto	1869 ...	,,	2	4	,,
Ditto ditto	1870 ...	,,	2	6	,,
Ditto ditto	1871 ...	,,	2	8	,,
Ditto ditto	1872 ...	,,	3	0	,,
Ditto ditto	1873 ...	,,	3	0	,,
Ditto ditto	1874 ...	,,	3	0	,,
Administration Report of	1870-71 ...	,,	0	4	,,
Ditto ditto	1871-72 ...	,,	0	4	,,
Ditto ditto	1872-73 ...	,,	0	4	,,
Ditto ditto	1873-74 ...	,,	0	4	,,
Ditto ditto	1874-75 ..	,,	0	4	,,
A table of the average monthly and annual rainfall at 98 Stations in Northern India		,,	0	4	,,
Report of the Midnapore and Burdwan cyclone of the 15th and 16th October 1874		,,	2	8	,,

The above are also to be obtained at the same prices at Messrs. Thacker, Spink & Co., No. 5, Government Place.

JOHN ELIOT, M.A., *Meteorological Reporter to the Govt. of Bengal.*

CALCUTTA, the 26th August 1875.

THE following Reports of the Bengal Meteorological Department, issued by orders by the Government of Bengal, can be supplied to the public at the prices annexed:—

1st.—Bay of Bengal Daily Report giving observation taken at 20 stations on or near the coast of the Bay, with a chart and summary. This is published in connection with the Calcutta Storm Signal Service. The report giving 10 A.M. observations of the day is distributed by peon in Calcutta after 4 P.M. Price to subscribers in Calcutta, Rs. 2 per mensem.

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Remittances in postage stamps should be accompanied by an addition of one anna in the rupee on account of discount.

R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.
The 24th February 1886.

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Copies are available for purchase at MESSRS. THACKER, SPINK AND CO., Government Place, Calcutta.

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The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

PART IV.

Bills of the Bengal Council.

GOVERNMENT OF BENGAL.

LEGISLATIVE DEPARTMENT.

THE following Bill was introduced and read in the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations, and referred to a Select Committee, on the 4th January, 1890, with instructions to report thereon within a fortnight, and is published for general information:—

A Bill to amend the Bengal Vaccination Act, 1880, and Act II, 1887.

Preamble.

WHEREAS it is expedient to amend the Bengal Vaccination Act, 1880, and Act II, 1887; It is hereby enacted as follows:—

Commencement of Act.

1. This Act shall come into force from the date on which it may be published in the *Calcutta Gazette* with the assent of the Governor-General.

Amendment of Preamble of Act V, 1880.

2. In the Preamble of the Bengal Vaccination Act, 1880, for the words "the Town, Port, and Suburbs" the words "Calcutta and the Port," shall be substituted.

Amendment of section 1, Act V, 1880.

3. In section one of the same Act, for the words "the Town, Port, and Suburbs" the words "Calcutta and the Port" shall be substituted.

Amendment of definition of "Town of Calcutta."

4. (*1*) In section two of the same Act, for the definition of "Town of Calcutta" the definition "'Calcutta' means Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888" shall be substituted.

Addition to definition of "Port of Calcutta."

(*2*) In the same section, add the following to the definition of 'Port of Calcutta':—

"or of any other law for the time being in force."

Repeal of definition of "Suburbs of Calcutta."

(*3*) In the same section, the definition of "Suburbs of Calcutta" is hereby repealed.

"Calcutta" substituted for "Town of Calcutta" in Act V, 1880.

5. In the Bengal Vaccination Act, 1880, for the words "the Town of Calcutta," wherever they occur, the word "Calcutta" shall be substituted.

Amendment of section 16, Act V, 1880.

6. In section sixteen of the same Act, for the words "the said Town" the word "Calcutta" shall be substituted.

Amendment of section 19, Act V, 1880.

7. In section nineteen of the same Act, for the words "in the said Town" the word "therein" shall be substituted.

Amendment of section 5, Act II, 1887.

8. In section five of Act II, 1887, the words "the Town or Suburbs of" are hereby repealed.

Amendment of section 6, Act II, 1887.

9. In section six of the same Act, for the words "the Town, or Port of Calcutta, or the Suburbs" the words "Calcutta or the Port" shall be substituted.

Rules and orders in force before passing of Act to be in force in Calcutta as defined by Act II, 1888.

10. (*1*) All rules made and orders issued under section thirty-three of the Bengal Vaccination Act, 1880, relating to the Town of Calcutta in force immediately before the passing of this Act, shall be deemed to be in force in Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888.

(*2*). The Local Government may, from time to time, modify or cancel such rules and orders.

(*3*). And all such rules and orders relating to the Suburbs of Calcutta are hereby repealed.

STATEMENT OF OBJECTS AND REASONS.

The Lieutenant-Governor was empowered under section thirty-three of the Bengal Vaccination Act, 1880, to make rules and issue orders in all matters connected with the working of that Act which was applicable in the first instance to the Town of Calcutta, the Port of Calcutta, and the Suburbs. Separate rules were made for Calcutta, for the Suburbs, and for places outside Calcutta and the Suburbs; and as it is desirable to have the same rules in force henceforth in the Old Town of Calcutta, and in that portion of the Suburbs which has been amalgamated therewith by Act II, 1888, and to place the parts of the Suburbs not so amalgamated under the same rules as those made for the places outside the Old Town of Calcutta and the Old Suburbs, the present Bill is introduced to give effect to these objects.

CALCUTTA;
The 18th December, 1889.

H. L. HARRISON.

CALCUTTA;
The 7th January, 1890.

C. H. REILY,
Assistant Secretary to the Government of Bengal,
Legislative Department.

[REGISTERED No. 29.]

No. 2 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JANUARY 8, 1890.

OFFICIAL PAPERS.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 4th January, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

The HON'BLE F. B. PEACOCK.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

RULES FOR THE CONDUCT OF BUSINESS.

THE Hon'ble Sir Charles Paul presented the Report of the Select Committee appointed to consider and amend the Rules for the Conduct of Business at Meetings of the Council.

He said:—"The Council will see from the report the amendments which have been made. The rules have been redrafted in what we considered a more convenient form. The only material alterations are those mentioned in the report, to two of which I shall refer. One of these is Rule 31, where it is provided that when a Bill is introduced, it shall, together with the Statement of Objects and Reasons, be published in the English and Vernacular languages in the official gazettes of such parts of Bengal as are affected by the Bill And on some subsequent occasion the member in charge of it shall make one or more of the following motions:—(*a*) that it be referred to a Select Committee, or (*b*) that it be taken into consideration by the Council at some future day, or (*c*) that it be circulated for the purpose of eliciting opinions thereon.

"The amendment which we have made is this. We have provided in certain cases, whenever it may be unnecessary to refer a Bill to a Select Committee, that it may be taken into consideration by the Council Occasions have arisen where a reference to a Select Committee was useless to provide for such cases. We have put in clause (*b*) of Rule 31.

"But inasmuch as it may be said that such a Bill should not be passed too summarily, we have provided that it shall be published with the Statement of Objects and Reasons, and as a rider upon that we have, as mentioned in the fifth paragraph of our report, provided, as a matter of further precaution, that the President shall have authority, upon a motion to consider a Bill being carried, to submit the Bill itself, or any part of it, section by section, to the Council; thus making the Council act the part of a Select Committee.

"Then another rule to which I wish to call attention is Rule 44. This is intended to meet the case which has occurred more than once of the passing of a Bill being postponed on account of some formal or trifling amendment having been made.

"I wish to point out another matter which came before the Select Committee. Under the Indian Council's Act the President has a casting vote. That provision was made a rule under our existing rules. The Members of the Select Committee thought that it did not come within the scope of a rule, and therefore what we propose to do (but which has been left out by mistake) is to add a foot-note indicating that the President has a casting vote under a particular section of the Indian Council's Act. This has only been done for the purpose of making the subject complete and calling attention to it.

"We have also provided that the right of the President to address the Council before putting the question should be indicated in specific terms, and have introduced a rule giving effect to that object. These are the principal amendments we have made."

His Honour the President said:—"This Report will be in the hands of Members to-day, and the Rules will be brought forward for passing at the next meeting of the Council. Under the rules we have yet to get the consent of the Government of India before they can come into force."

BENGAL VACCINATION BILL.

The Hon'ble Sir Henry Harrison introduced the Bill to amend the Bengal Vaccination Act, 1880, and Act II, 1887, and moved that it be read in Council.

He said:—"I explained at the last meeting the objects and measures of this Bill which are very much of a formal character"

The Motion was put and agreed to.

The Bill was read accordingly.

The Hon'ble Sir Henry Harrison also moved that the Bill be referred to a Select Committee, consisting of the Hon'ble Messrs. Nolan and Allen, and the Mover, with instructions to report thereon within one fortnight.

The Motion was put and agreed to.

CALCUTTA AND THE SUBURBAN POLICE SUPERANNUATION FUNDS BILL.

The Hon'ble Sir Henry Harrison moved that the Report of the Select Committee on the Bill to consolidate the Calcutta and the Suburban Police

Superannuation Funds be taken into consideration in order to the settlement of the clauses of the Bill.

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved that the clauses of the Bill be considered for settlement in the form recommended by the Select Committee.

He said:—"I wish to make one remark on the present occasion. The Select Committee in their report said, that they struck out so much of section 2 as made the provisions of that section applicable to the Clerk appointed to manage the Superannuation Fund.

"Since then I have received a memorial from the Clerk drawing attention to the hardship to him of losing his pension, but so long a time has elapsed since the report of the Select Committee was prepared that I have not been able to remember why we left it out I do not think we had the intention of depriving the Clerk of his salary or pension

"My recollection is, that we considered the wording of section 2 sufficient without making any particular reference to the Clerk. The words of the section are:—'The Police Superannuation Funds * * * * shall be consolidated, and shall form one Police Superannuation Fund and, shall be applied from time to time to the payment of the charges incurred in the control and management of the said Fund.' That is the first purpose to which the revenues of the Fund are to be applied. The section goes on to say—'and of such superannuation or retiring allowances or gratuities as may be ordered by the Local Government at any time to any Police Officer of the Calcutta or Suburban Police Force,' and the words followed—'or to any person employed as a Clerk to manage the said Fund.' That seemed to the Select Committee rather confused, because the first purpose to which the revenues are to be applied, viz., the management of the Fund, is quite different from the second purpose, which is the payment of pensions and gratuities to members of Police Force for which the Fund primarily exist. Therefore to put the Clerk in the same category as the Police Force seemed rather out of place The Clerk rather came under that portion of the section which made the revenues applicable to the payment of the charges incurred in the control and management of the Fund.

"But as there may be some doubt, I will ask the Council to insert such words as will remove all difficulty, and therefore I move that the words 'including salaries, pensions or gratuities' be inserted after 'charges' in line 7 of section 2, making the wording run thus: 'and shall be applied from time to time to the payment of the charges, including salaries, pensions or gratuities, incurred in the control and management of the said Fund.' That, I believe, will make the intention quite clear."

The Motion was put and agreed to.

The Hon'ble Sir Henry Harrison's motion that in line 7 of section 2, after the word "charges" the words "including salaries, pensions or gratuities" be inserted, was also put and agreed to.

CALCUTTA PORT BILL.

HIS HONOUR the President said:—"The next item of business on the list is to consider the Report of the Select Committee on the Bill to consolidate and amend the law relating to the Port of Calcutta and to the appointment of Commissioners for the said Port. On that subject the Hon'ble Mr. Moore has rather an important amendment to propose; and as the matter is still under the consideration of the Chamber of Commerce, he asks that the consideration of this Bill be postponed. I am sure the Council will readily accede to the Hon'ble Member's request, and I hope we shall be able to discuss the Bill at our next meeting."

The consideration of the Report was postponed.

The Council adjourned to Saturday, the 11th January, 1890.

CALCUTTA;
The 7th January, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

PROPOSED EXHIBITION IN VIENNA.

The 31st December, 1889.—The following correspondence is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

Circular No. 490.—M. & Ex., dated Calcutta, the 19th December 1889.

From—J. W. P. MUIR-MACKENZIE, Esq., C.S., Under-Secretary to the Government of India, Revenue and Agricultural Department,

To—The Secretary to the Government of Bengal.

I AM directed to forward a copy of a letter No. 990, dated the 31st August last, from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, regarding an exhibition to be held in Vienna between the 15th May and 31st October, 1890, of articles connected with agriculture and the management of forests, and to request that you will be good enough, with the permission of His Honour the Lieutenant-Governor, to give due publicity to the announcement.

No. 990, dated Bombay, the 31st August 1889.

From—F. STOCKINGER, Esq., Imperial and Royal Austro-Hungarian Consul-General, Bombay,

To—The Secretary to the Government of India, Foreign Department.

By order of my Government I have the honour to inform you that, under the auspices of the Imperial and Royal Agricultural Society in Vienna, an exhibition of articles connected with agriculture and the management of forests will be held in Vienna between the 15th May and the 31st October 1890.

According to the official prospectus the following foreign articles will be admitted to this exhibition :—

(1) Machines and appliances for agriculture and sylviculture and for the industries connected therewith; also for the production of fruit, wine and hops; for the breeding of domestic fowls, of bees, silk-worms and dogs; for hunting, shooting, and fishing.

(2) Various appliances for agriculture, such as artificial manure, artificial fodder, veterinary appliances and medicines, &c.

(3) Models, plans and drawings; also statistical information referring to agricultural and sylvicultural improvements, architecture and engineering.

(4) Models, plans, drawings and statistical information referring to agricultural and sylvicultural instruction and experiments; also the literature bearing on these subjects.

(5) Models, plans, drawings and statistical information referring to the utilisation of droppings and waste stuff.

(6) Models, plans, drawings and statistical information referring to the food-supply of large cities.

(7) Domestic fowls and dogs.

I have the honour to request you, therefore, to bring the foregoing information to the notice of the respective official authorities as soon as possible.

Should any further information be required by intending exhibitors, I shall be happy to give it as far as I am able to do so, and also to forward any notice or application for admission to the said exhibition to the proper quarter.

Such notice should be given or application made as soon as possible.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 4th January 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Divn. 1	Burdwan Jan. 4, '90	Nil	Weather—seasonable. Harvesting of winter rice going on. Prospects of *rubbi* fair, and those of sugarcane good. Prices of common rice :— Srs. Burdwan ... . 15; Raneegunge ... ... 15½; Culna ... . 15; Cutwa ... ... 15¼ — per rupee.
2	Bankoora „ 4, '90	Nil	Weather—seasonable. Harvesting of *amun* over. Prospects of *rubbi* not good. Sugarcane doing well. Common rice selling at 20 seers per rupee at Sudder and 18½ seers at Bishenpore.
3	Birbhum „ 4, '90	Nil	Weather—seasonable. Harvesting of *amun* crop nearly finished. Sugarcane is in fine order, but not yet ripe for crushing. Rice selling at Soory 16½ seers per rupee, and at Rampore Hât 18 seers.
4	Midnapur „ 4, '90	Nil	Weather—cold and bright. Harvesting of rice continues. Outturn in Contai about 14 annas, and in rest of the district about 12 annas. Prices continue to fall in most thanas. Prices of rice :— Srs. Sudder ... ... 16; Contai ... ... 24 (new rice); Tumluk ... ... 18; Ghatal ... ... 18 — per rupee.
5	Hooghly „ 4, '90	Nil	Weather—seasonable. Reaping of winter paddy almost over. Prospects of *rubbi* crops good. Prices of common rice :— Srs. Ch. Sudder ... ... 12 0; Serampore ... ... 11 8; Jehanabad ... ... 18 7 — per rupee.
	Howrah „ 4, '90	Nil	Weather—a little cloudy. *Amun* crop is still being reaped. Prospects good. Price of common rice at Sudder 12½ seers per rupee.
	Central Districts.		
Presidency Divn. 6	24-Perghs. Jan. 4, '90	Nil	Weather—Seasonable. Harvesting of *amun* going on, and the yield is estimated at 16 annas. Winter crops doing well. Common rice sells at from 16 to 17 seers per rupee; at Barrackpore only the price is quoted at 13½ seers.
7	Nuddea „ 4, '90	Nil	Weather—seasonable. Harvesting of late rice is completed. Winter crops are doing well. *Kalai* and *mung* are being harvested.
8	Khoolna „ 4, '90	Nil	Weather—seasonable. *Amun* harvest still progressing; outturn good. Prospects of winter crops good.
9	Jessore „ 4, '90	Nil	Weather—seasonable. Harvesting of *amun* rice still going on. Outturn of *kalai*, mustard, tobacco, and linseed expected to be 10 annas. These crops were partly damaged by the unseasonable rain in November. Price of rice stationary.
10	Moorshedabad „ 4, '90	Nil	Weather—bright and cold. *Amun* and *kalai* are still being harvested. Prospects of *rubbi* crops good.
Rajshahye Divn. 11	Dinagepur „ 4, '90	Nil	Weather—cloudy with east wind; very foggy. Harvesting of winter rice going on. Coarse rice selling at 17 seers per rupee.
12	Rajshahye „ 4, '90	Nil	Weather—seasonable, a little cloudy. Paddy and *kalai* are still being harvested with fair outturn. Spring sowings are going on satisfactorily. Prospects on the whole good.
13	Rungpur „ 4, '90	Nil	Weather—seasonable. The *amun* harvest is nearly over. Tobacco transplantation continues. Wheat, mustard, and sugarcane promise well. Land is being prepared for early rice.
14	Bogra „ 4, '90	Nil	Weather—days warm, nights somewhat chilly. About two-thirds of *amun* crop reaped. Other crops doing well. Price of common rice at head-quarters 20 seers per rupee.
15	Pubna „ 4, '90	Nil	Weather—seasonable. *Amun* crop is being reaped; outturn expected to be about 13 annas. Sugarcane is a deficient crop; the yield is not expected to be above 8 annas. Winter crops are fair. Prices still high.
16	Darjeeling „ 4, '90	Nil	Weather—very cold and bright. The crops both in hills and Terai are doing well. Prospects generally good.
17	Julpigoree „ 4, '90	Nil	Weather—cold and fair. Cutting of *haimanti* paddy nearly finished. Prospects good. Prices of ordinary rice :— Srs. Julpigoree (Sudder) ... ... 15 to 16; Boda ... ... 20; Rajgunge ... ... 20; Patgram ... ... 15; Damdim . ... 16; Tetalya ... ... 13; Alipore Duars ... ... 15 to 16 — per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Jan. 4, '90	Nil	Weather—bright and cold. Harvesting of *amun* finished; outturn on the whole good. Winter crops doing well. Sowing of *boro* paddy going on. Fodder is available. No special change in the prices of food-grains.
Dacca Divn. 19	Furreedpur „ 4, '90	Nil	Weather—seasonable. *Amun* harvest completed. *Kalai* is being cut. Cold-weather crops doing well. Flow of date juice fair. *Jali* rice is being sown on churs.
Dacca Divn. 20	Backergunge „ 4, '90	Nil	Weather—seasonable. Prospects of crops good. Harvesting of *amun* still continues.
Dacca Divn. 21	Mymensingh „ 4, '90	Nil	Weather—cool and bright. Harvesting of *amun* paddy still going on. *Rubbi* crops are in a flourishing condition. Price of common rice almost steady.
Chittagong Divn. 22	Chittagong „ 4, '90	Nil	Weather—seasonable. Harvesting of *amun* not yet finished. Prospects of winter crops fair.
Chittagong Divn. 23	Noakholly „ 4, '90	Nil	Weather—seasonable. Harvesting of *amun* nearly finished. *Rubbi* crops doing well. Price of rice stationary.
Chittagong Divn. 24	Tipperah „ 4, '90	Nil	Weather—seasonable. Cutting of *amun* paddy completed. Winter crops doing well.
Chittagong Divn. 25	Chittagong Hill Tracts. „ 3, '90	Nil	Weather—very cold with dense fogs in the morning throughout the week; cloudy during the last two days. Harvesting of late plough-paddy still continues. Mustard, tobacco, and chillies progressing.
	Hill Tipperah „ 4, '90	Nil	Weather—cold. *Amun* paddy and cotton are still being gathered; fair outturn expected. Prospects of tobacco and chillies fair.
BEHAR.			
Patna Divn. 26	Patna „ 4, '90	Nil	Weather—cold. Paddy is still being reaped in some places. *Rubbi* crops are progressing well. Rain would do good to the standing crops. Gram, peas, and mustard are flowering. Prospects of poppy favourable. There has been a slight rise in prices of some of the food-grains.
Patna Divn. 27	Gya „ 4, '90	Nil	Weather—cold. Prospects of *rubbi* and poppy favourable. Paddy is being harvested Food-stocks sufficient.
Patna Divn. 28	Shahabad „ 4, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops continue good. Sugarcane is being pressed. Prices of rice falling and of other food-grains stationary.
Patna Divn. 29	Durbhunga „ 4, '90	Nil	Weather—clear and cold. Harvesting of rice almost completed. Prospects of *rubbi* continue favourable, but a shower of rain would be greatly beneficial to the crop. Poppy reported to be very favourable. Tobacco crop is fair. Prices stationary.
Patna Divn. 30	Mozufferpur „ 4, '90	Nil	Weather—cold and clear. Prospects of poppy and *rubbi* crops continue good. Tobacco crop very promising.
Patna Divn. 31	Sarun „ 4, '90	Nil	Weather—seasonable. *Rubbi* crops look well. Prospects satisfactory. Poppy looks healthy and is promising.
Patna Divn. 32	Chumparun „ 4, '90	Nil	Weather—cold and bright. *Rubbi* crops doing well, but a good shower of rain would be beneficial. Poppy thriving: prospects excellent. Pressing of sugarcane progressing. Prices of food-grains easy.
Bhagulpore Divn. 33	Monghyr „ 4, '90	Nil	Weather—cool and fine. Harvesting of winter rice almost finished. *Rubbi* crops and poppy doing well.
Bhagulpore Divn. 34	Bhagulpur „ 4, '90	Nil	Weather—seasonable. Rice harvest closing. *Rubbi* crops now want rain. Mustard outturn likely to be rather below the average.
Bhagulpore Divn. 35	Purneah „ 4, '90	Nil	Weather—days rather warm for the season. Clouds gathered, but have dispersed. *Aghani* rice harvested, except on the very low lands; outturn for the whole district averages 16 annas. Mustard and *kurthi* are being gathered. Tobacco promises well. Showers are wanted for *rubbi* crops generally.
Bhagulpore Divn. 36	Maldah „ 4, '90	Nil	Weather—rather hot for the time of the year. Harvesting of winter rice still continues. *Rubbi* crops are doing well, but some rain would do good to them. Price of common rice stationary.
Bhagulpore Divn. 37	Sonthal Perghs. „ 4, '90	Nil	Weather—generally bright and clear. Cloudy for the past two days. Rice harvest still going on; an average outturn expected. *Rubbi* crops satisfactory.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Jan. 4, '90	Nil	Weather—seasonable. Reaping of *laghu sarad* over; estimated outturn about 14 annas. *Rubbi* doing well.
	39	Pooree „ 3, '90	Nil	Weather—seasonable. Harvesting of winter rice (late *sarad*) still continues. *Dalua* and *mung* crops doing well. Prices of food-grains steady.
	40	Balasore „ 4, '90	Nil	Weather—seasonable. Rice harvest not yet completed. Prospects of *rubbi* fair.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Jan. 4, '90	Nil	Weather—seasonable and cold. Crops generally good.
	42	Lohardugga „ 4, '90	Nil	Weather—seasonable: very cold. Prospects of *rubbi* good, but it wants rain soon. Harvesting of paddy is nearly finished in Palamow. Sugarcane not yet gathered.
	43	Singbhoom „ 4, '90	Nil	Weather—cloudy. *Surguja* and *sarso* (mustard) crops are being reaped. *Rubbi* prospects good. Prices stationary.
	44	Manbhoom „ 4, '90	Nil	Weather—seasonable throughout the week excepting to-day (4th), which is rather cloudy. Winter paddy is being threshed; probable outturn 14 annas. Other crops doing well.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 7th January, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.
1	Burdwan ...	14 8	13 4	12 4	No sale.			12 0	10 0	13 8	15 12	12 5	18 12	..	...	...
2	Bankoora ...	14 8	13 12	12 4	14 0	14 0	14 8	15 0	15 0	16 4	19 0	18 0	21 0	...	...	...
3	Beerbhoom ...	15 8	15 0	11 4	...	...	...	12 0	13 0	12 0	15 0	15 0	16 8	...	...	...
4	Midnapore ...	13 0	12 8	13 5	...	...	...	12 8	11 0	13 0	17 0	16 0	17	...	...	...
5	Hooghly* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah ...	...	...	...	...	...	...	9 8	9 8	12 8	14 0	12 8	17 12	...	...	...
	Central Districts.															
	Calcutta ..	13 4	13 3	12 9	16 10	16 11	16 13	8 10	8 3	10 3	13 8	13 5	15 3	17 3	14 12	17
6	24-Pergunnahs	13 0	13 5	12 8	16 0	16 0	16 0	7 8	7 8	8 0	16 0	15 0	16 0	...	...	...
7	Nuddea ...	15 0	15 0	14 0	17 12	17 12	22 14	10 10½	10 10½	12 5	12 7	12 6	17 10	...	...	...
8	Khoolna ...	..		...	...	...	...	11 8	11 8	14 0	16 0	14 0	18 0	...	...	...
9	Jessore ...	13 5	13 5	11 0	...	...	...	9 0	9 0	11 0	16 0	16 0	17 0	...	..	...
10	Moorshedabad*	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..
11	Dinagepore ...	17 8	17 8	12 0	14 8	14 8	12 0	15 8	15 8	15 8	19 0	19 0	19 9	...	...	...
12	Rajshahye ...	15 12	15 0	15 12	19 8	19 8	24 0	13 8	10 8	12 0	15 12	13 8	16 8	...	...	...
13	Rungpore ...	13 5	13 5	14 3	...	...	...	10 0	8 8	12 4	13 5	12 12	16 0	...	...	...
14	Bogra ...	Best. 12 0 / Com. 15 12	15 0	9 12½	...	...	...	12 0	12 0	12 0	18 12	18 0	18 12	...	...	...
15	Pubna ...	12 0	15 8	17 0	...	...	...	7 8	7 6	8 0	16 8	14 4	17 4	...	...	...
16	Darjeeling ..	11 0	11 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	12 0	12 0	12 0	...	...	...
17	Julpigoree ..	13 0	12 0	11 0	16 0	16 0	16 0	8 0	8 0	9 8	16 0	17 0	16 0	...	...	...
	Eastern Districts.															
18	Dacca ...	13 0	13 0	15 0	16 0	16 0	20 0	13 0	12 0	14 0	16 0	14 0	16 0	...	...	...
19	Furreedpore ...	12 0	13 0	11 0	12 0	12 0	...	11 0	10 0	8 0	15 0	15 0	16 0	...	...	...
20	Backergunge ...	..	...	..	...	...	...	14 4	15 4	13 5	16 0	16 2	16 13	...	...	...
21	Mymensingh ...	10 0	10 0	9 0	...	...	...	9 0	8 0	12 0	14 0	13 14	20 0	...	...	...

* Return not received.

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranaghat 10 seers 10 chittacks.

B At Rampore Hât retail price of salt 9½ seers per rupee.

C In Tumlook and Contai subdivisions retail price of salt 8 seers per rupee.

C1 In subdivisions retail prices of salt per rupee are :— Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

D In subdivisions retail prices of salt per rupee are :—Ranaghat 9 seers 2 chittacks, Chooadanga 9 seers, Kooshtea 10 seers, and Meherpore 10½ seers.

E In subdivisions retail prices of salt per rupee are :—Satkhira 9 seers 2 chittacks and Bagirhat 8 seers.

F In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoidæum.*)			Marua or Ragi. (*Eleusine Coracana.*)			Kangni or Kakun, Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer arietinum.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	.	...	...	...	...	18 0	17 0	16 8
...	...	...	...	...	..	...	...	...	15 8	15 0	14 8
...	...	...	...	..	..	...	...	...	16 0	16 0	14 4
...	...	...	...	...	...	...	...	...	15 0 17 0	15 0 16 4	14 0
..	...	...	.	..	..	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	16 12	16 8	15 0
13 0	13 2	11 14	...	...	...	15 11	15 3	17 12	16 2	15 15	15 3
...	...	...	...	...	...	4 0	5 4	12 8	16 0	16 0	16 0
...	...	...	...	..	...	...	..	...	18 14	18 14	16 0
...	...	...	...	...	..	...	...	...	12 0	12 0	16 0
...	...	...	.	...	...	..	.	...	16 0	16 0	16 0
...	.	...	...	...	..	...	...	...	...	...	...
...	..	...	...	...	..	...	...	...	14 8	14 8	12 0
...	...	...	...	...	...	...	...	...	18 0	18 0	13 8
...	...	...	...	...	..	...	..	...	13 5	13 5	10 5
...	...	..	...	...	..	...	...	...	13 8	15 0	9 12
	...	...	...	...	...	...	...	...	15 0	15 4	18 0
...	...	...	13 0	13 0	14 0	...	...	...	10 0	10 0	10 0
...	...	...	...	...	..	...	...	...	13 0	13 0	11 9
..	...	...	...	...	...	...	..	.	13 0	13 0	13 0
...	...	...	...	...	..	...	...	..	11 0	12 0	11 0
...	...	...	...	...		...	...	...	15 8	15 0	13 5
...	..	..	...			.	.		13 0	13 0	12 0

Indian-corn or Maize. (*Zea Maye.*)			Arhar or thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
	No sale.		20 0	18 0	16 0	100 0	100 0	107 0
26 0	26 0	19 0	16 8	15 8	18 12	280 0	280 0	320 0
...	...	...	12 0	10 8	16 12	160 0	160 0	160 0
...	...	...	13 8	13 0	20 0	160 0	160 0	120 0
...	...	...	...	...	...	...	...	...
...	...	...	13 4	13 0	13 8	100 0	100 0	100 0
18 5	18 5	16 13	16 7	16 10	16 10	100 0	100 0	95 0
...	...	...	18 0	17 0	17 0	100 0	100 0	100 0
...	...	...	16 0	16 0	17 12	...	...	...
...	...	...	...	...	...	160 0	160 0	160 0
...	...	...	16 0	16 0	16 0	160 0	160 0	160 0
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	160 0	160 0	160 0
...	...	...	17 0	17 0	18 8	240 0	240 0	240 0
...	...	...	10 5	10 5	10 0	100 0	100 0	120 0
...	...	...	...	...	...	90 0	90 0	90 0
...	...	...	16 8	17 4	18 12	200 0	200 0	200 0
21 0	20 0	20 0	8 0	8 0	8 0	120 0	120 0	120 0
...	...	..	13 0	12 0	9 8	128 0	128 0	128 0
...	...	...	14 0	14 0	16 0	160 0	160 0	120 0
15 0	15 0	...	11 0	10 0	10 0	120 0	120 0	120 0
...	...	..	...	...	...	120 0	120 0	120 0
...	...	...	14 0	14 0	13 0	...	...	...

Head-quarter Station Bazars of the Districts of Bengal on the 31st December 1889.

Salt.			WHOLESALE PRICES PER MAUND OF 40 SEERS.			AVERAGE WAGES PER MONTH.									DISTRICTS.
			Salt.			Able-bodied Agricultural Labourer.			Syce or Horse-keeper.			Common mason, Carpenter, or Blacksmith.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch	S Ch	S Ch	Rs. A. P.	Rs. A P	Rs. A. P.	Rs. A	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
10 A 2	10 5	10 7	3 12 0	3 12 0	3 11 0	8 0	8 0	8 0	6 0	6 0	6 8	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	7 0 to 10 0	7 0 to 12 0	6 0 to 10 0	5 0 to 8 0	6 0 to 9 0	5 0 to 8 0	to 16 0	9 0 to 16 0	8 0 to 15 0	Bankoora.
10 B 8	10 8	10 0	3 10 0	3 10 0	3 13 0	6 0	5 0	5 0	6 0	6 0	6 0	7 8 to 10 0	13 8	12 0	Beerbhoom.
10 C 3	10 3	10 4	3 15 0	3 15 0	3 14 0	6 1	7 8	6 0	6 0	6 0	5 0	7 4 to 10 0	7 8 to 10 0	7 8 to 12 4	Midnapore.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Hooghly.
9 2	9 2	10 8	3 14 0	3 14 0	3 10 0	...	...	...	...	...	...	..	...	...	Howrah.
						(Agri. labourers.)						(Common mason).			*Central Districts.*
10 0	10 1	10 5	3 11 11	3 11 1	3 9 6	5 0 5 0 5 0 Coolies. 8 0 8 0 8 0			6 0	6 0	6 0	15 0	15 0	15 0	Calcutta.
10 C1 0	10 0	10 4	3 9 6	3 10 0	3 10 0	10 0 to 11 0	10 0 to 11 0	9 0 to 10 0	6 0 to 7 0	6 0 to 7 0	6 0	15 0 to 25 0	15 0 to 25 0	15 0 to 22 0	24-Pergunnahs.
9 D 2	9 2	9 2	3 14 0	3 14 0	3 14 0	...	...	...	...	...	...	...	...	...	Nuddea.
8 E 0	8 0	10 0	4 4 0	4 4 0	4 0 0	...	...	...	...	...	...	...	...	...	Khoolna.
9 F 2	9 2	9 0	4 0 0	4 0 0	4 0 0	5 0 to 7 8	5 0 to 7 8	5 0 to 7 8	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Jessore.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Moorshedabad.
9 G 8	9 8	10 0	4 0 0	4 0 0	3 14 0	7 8	7 8	7 8	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
9 H 0	9 0	9 9	4 4 0	4 5 4	4 0 0	4 0 to 6 0	4 0 to 6 0	5 0 to 6 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	8 0 to 16 0	8 0 to 16 0	8 0 to 16 0	Rajshahye.
8 I 8	8 8	9 6	4 8 0	4 8 0	4 4 0	7 8	5 0	7 8	6 0	6 0	6 0 to 7 0	10 0 to 15 0	8 0 to 20 0	12 0 to 15 0	Rungpore.
8 13	8 13	8 4	4 2 8	4 2 8	4 5 4	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	5 0 to 7 8	5 0 to 7 8	5 0 to 7 8	10 0 to 20 0	10 0 to 20 0	12 0 to 22 0	Bogra.
8 11½ J	8 11½	9 10	4 0 0	4 1 6	3 15 0	5 0 to 6 8	5 0 to 6 8	5 0 to 7 0	6 0 to 8 0	6 0 to 8 0	6 0 to 10 0	7 0 to 20 0	7 0 to 20 0	8 0 to 20 0	Pubna.
0	8 0	7 0	5 0 K 0	5 0 0	5 0 0	6 0	7 0 to 8 0	6 0	8 0 to 9 0	7 0 to 9 0	7 8 to 9 0	12 0 to 25 0	12 0 to 22 0	12 0 to 22 0	Darjeeling.
9 0	9 0	9 0	4 2 0	4 2 0	4 4 0	7 8	7 8	7 8	9 0	9 0	9 0	15 0 to 20 0	15 0 to 20 0	20 0	Julpigoree.
															Eastern Districts.
9 M 4	9 4	9 2	4 4 0	4 4 0	4 4 0	6 0 to 10 0	6 0 to 10 0	6 0 to 8 0	7 0 to 12 0	7 0 to 12 0	8 0 to 15 0	10 0 to 20 0	8 0 to 20 0	8 6 to 20 0	Dacca.
9 0	9 0	9 0	4 4 0	4 4 0	4 2 0	10 0	7 8	7 8	10 0	7 0	8 0	15 0	15 0	10 0 to 15 0	Furreedpore
10 N 0	10 0	10 10	4 0 0	4 0 0	3 12 0	7 8	9 8	7 8	6 0	6 0	6 0	10 0 to 15 0	2 0 to 15 0	10 0 to 15 0	Backergunge.
9 O 0	8 8	9 10	4 6 0	4 10 0	4 2 0	7 8 to 9 0	7 8 to 9 0	7 0 to 10 0	6 0 to 7 0	6 0 to 7 0	6 0 to 7 0	12 0 to 30 0	12 0 to 30 0	12 0 to 3	Mymensingh.

G In Thakurgaon subdivision retail price of salt 8 seers per rupee.
H In subdivisions retail prices of salt per rupee are :—Nattore 9 seers and Nowgong 8 seers 11 chittacks.
I In subdivisions retail prices of salt per rupee are :—Gaibanda 8 seers and Nilphamari 9 seers.
J At Serajgunge retail price of salt 9½ seers per rupee.
K At Siliguri wholesale price of salt Rs. 4-4 per maund.
L At Fallacutta in Alipore subdivision retail price of salt 8 seers per rupee.
M In subdivisions retail prices of salt per rupee are :—Manickgunge 8 seers, Moonshigunge 8 seers 14 chittacks, and Naraingunge 9 seers 12 chittacks.
N In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
O In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number	DISTRICTS	WHEAT			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.	S Ch.
22	Chittagong	11 0	11 0	11 0	.		..	8 0	8 0	14 0	16 0	16 8	17 5	.	...	...
23	Noakholly*	...	.	...		.	.		.		.			...	...	...
24	Tipperah	10 7	12 5	12 8				10 0	10 0	16 0	16	17 12½	20 0		.	...
25	Chittagong Hill Tracts				.			10 0	10 0	11 6½	11 6	13 5	13 5½	.	.	...
	Hill Tipperah .	6 0	6 0	6 0			.	8 0	8 0	9 0	16 0	16 0	20 0	.	...	...
	BEHAR.															
26	Patna	17 4 / 15 8	Red 17 8 / White 15 4	... / 16 4	24 0	24 0	20 0	10 8	10 8	11 0	18 0	18 6	16 0	22 0	24 0	..
27	Gya ..	16 8	17 0	13 8	20 0	20 0	16 0	10 0	10 0	9 8	17 0	18 0	15 8	...	...	...
28	Shahabad	16 0	16 0	15 8	22 0	21 0	18 4	9 0	9 0	10 0	17 0	16 8	15 8	21 0	22 8	18 4
29	Durbhunga	17 0	16 0	12 9½	19 0	20 8	20 15½	14 8	12 8	10 2	19 8	20 0	14 5	...	...	...
30	Mozufferpore	14 0	13 0	12 0	20 0	18 0	...	10 0	10 8	9 0	18 0	19 0	12 0	...	...	..
31	Sarun ...	16 4	15 12	15 0	22 0	21 0	21 8	8 8	8 8	8 8	15 10	14 14	13 8	...	...	...
32	Chumparun	13 0	12 0	13 0	20 0	20 0	21 0	9 0	9 0	9 0	18 0	19 0	13 8	...	...	...
33	Monghyr ..	17 5	17 13	15 12	21 0	15 12	21 0	12 1	12 1	14 11	16 4	18 14	17 13	...	...	21 0
34	Bhagulpore ..	16 6	16 6	15 2	20 3	20 3	12 10	12 0	12 10	Old. 11 0 / New. 15 2	17 11	16 6	Old. 15 2 / New. 16 6	..	...	...
35	Purneah	20 0	20 0	14 0	..	...	...	17 0	20 0	14 0	19 0	22 0	16 0	...	..	
36	Maldah	18 0	18 0	14 0	...	...		9 0	11 0	12 0	16 0	14 8	17 0	...	...	...
37	Sonthal Perghs.	14 0	15 0	13 0	.	.		12 0	12 0	12 8	18 0	17 0	19 0	...	..	...
	ORISSA															
38	Cuttack	13 2	13 2	13 2		..	...	10 8	10 8	11 13	19 14	18 6	19 11	...	..	...
39	Pooree	13 2	13 2	11 13	.	...	.	14 7	14 7	11 13	22 10	22 10	17 1	.	...	...
40	Balasore	15 0	5 0	12 0	13 0	13 0	13 0	12 0	12 0	12 0	18 0	17 0	22 0	.	...	...
	CHOTA NAGPORE															
	South-West Frontier Agency.															
41	Hazaribagh .	14 0	13 0	12 0	12 0	11 0	11 0	10 0	10 0	8 0	20 0	20 0	17 0	...	...	...
42	Lohardugga .	11 12	Red 12 0	11 0	12 0	13 0	.	18 0	2. 0	14 8	20 0	22 0	19 0	...	...	...
43	Singbhoom .	10 0	10 0	10 0	20 0	20 0	20 0	16 0	16 0	16 0	20 0	20 0	20 0	.	...	...
44	Manbhoom	13 5	13 5	11 8	...		...	13 0	12 8	13 0	22 0	21 0	22 0	...	...	...

* Return not received.

P At Cox's Bazar retail price of salt 8 seers per rupee.
P1 In subdivisions retail prices of salt per rupee are. Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
Q In subdivisions retail prices of salt per rupee are:—Tajpore 11 seers and Madhubani 10 seers.
R In subdivisions retail prices of salt per rupee are.—Hajipore 9½ seers and Sitamarhi 10 seers.
S At Bettiah retail price of salt 9½ seers per rupee.

CALCUTTA,
The 7th January, 1890.

Station Bazars of the Districts of Bengal on the 31st December 1889—(concluded).

Salt.			Wholesale prices per maund of 10 seers			Average wages per month.									Districts.
			Salt			Able-bodied Agricultural Labourer.			Syce or Horse-keeper.			Common Mason, Carpenter, or Blacksmith.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
P 9 0	9 0	9 0	4 0 0	4 0 0	3 14 0	10 8	8 0	8 0	8 0	8 0	8 0	9 8 to 12 0	9 4 to 12 0	9 0 to 11 0	Chittagong.
.	..				...	...	...		.	...		..	...	...	Noakholly.
8 14	8 14	8 0	4 8 0	4 8 0	4 6 0			...	...	...	...	...	...		Tipperah.
8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	...	..	.		...	...	...	.	...	Chittagong Hill Tracts
8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	8 0	8 0	8 0	6 0	6 0	6 0	15 0	15 0	15 0	Hill Tipperah.
															BEHAR.
9 8	9 8	10 0	3 14 0	3 14 0	3 13 0	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	4 8 to 5 0	4 8 to 5 0	4 8 to 5 0	7 0 to 8 0	7 0 to 8 0	6 0 to 8 0	Patna.
9 2	9 2	9 0	4 2 0	4 2 0	.....	2 8 to 3 0	2 8 to 3 0	2 8 to 3 0	3 0 to 5 0	3 0 to 5 0	3 0 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	Gya.
P1 10 0	10 0	10 0	3 15 0	3 15 0	4 0 0	5 0	5 0	5 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	Shahabad.
Q 10 0	10 0	11 8	3 12 0	4 0 0	3 4 0		...	...	...	...	...	...	...	..	Durbhunga.
R 10 0	10 0	10 0	4 0 0	4 0 0	3 12 0	3 12	3 0 to 5 0	3 0 to 5 0	3 0 to 4 0	4 0 to 5 0	4 0 to 5 0	7 8 to 9 6	5 0 to 8 0	5 0 to 8 0	Mozufferpore.
9 8	9 8	10 0	4 2 0	4 2 0	3 14 6	3 12 to 7 8	3 12 to 7 8	3 12 to 7 8	4 0 to 7 0	4 0 to 7 0	4 0 to 7 0	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0	Sarun.
S 9 8	9 8	8 0	4 2 0	3 15 0	4 0 0	2 13 to 3 12	2 13 to 3 12	2 13 to 3 12	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	5 10 to 9 6	5 10 to 9 6	5 10 to 9 6	Chumparun.
T 9 11	10 0	9 8	3 14 6	3 14 6	4 0 0	5 10	4 0 to 5 0	5 10	3 0 to 4 0	3 0 to 5 0	3 0 to 4 0	6 0 to 8 0	5 0 to 12 0	6 0 to 8 0	Monghyr.
10 1	10 1	10 1	3 15 6	3 15 6	4 0 0	3 12 to 4 11	3 12 to 5 10	3 12 to 5 10	4 0 to 5 0	3 8 to 5 0	3 0 to 5 0	7 8 to 11 4	7 8 to 11 4	6 9 to 11 4	Bhagulpore.
U 10 0	9 0	9 0	4 0 0	4 7 0	4 5 4	5 10 to 6 9	4 11 to 5 10	4 11 to 5 10	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	7 0 to 16 0	7 0 to 16 0	7 0 to 16 0	Purneah.
9 0	8 8	9 0	4 4 0	4 6 0	4 1 6	7 8	7 8	7 8	5 0	5 0 to 6 0	5 0	8 0 to 12 0	10 0 to 15 0	8 0 to 10 0	Maldah
9 4	9 4	9 0	4 0 0	4 0 0	4 5 0	3 12	3 12	3 12	5 0	5 0	0	7 8 to 9 6	7 8 to 9 6	7 8 to 9 6	Sonthal Perghs.
															ORISSA.
11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	...	...	.	...		...	...	.		Cuttack.
V 11 13	11 13	11 13	3 6 0	3 6 0	3 6 0		...	...			...	...	...	...	Pooree.
W 9 8	9 0	9 12	3 15 0	4 2 0	3 13 6	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	7 0 to 10 0	7 0 to 10 0	7 8 to 12 3	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency
8 0	8 0	8 0	4 5 0	4 8 0	4 4 0	4 3½	3 12	3 12	4 0 to 5 0	5 0	4 0 to 5	7 8	8 0	7 8	Hazaribagh.
8 8	8 4	8 6	4 9 0	4 10 0	4 12 0	3 4½ to 3 12	3 4½ to 3 12	3 4½ to 3 12	3 8 to 6 0	3 8 to 6 0	3 0 to 4 8	4 11 to 14 1	4 11 to 14 1	6 0 to 12 0	Lohardugga.
7 0	7 0	7 0	5 8 0	5 8 0	5 8	...	...	...	...	. .	...	...	...	...	Singbhoom.
X 9 2	9 2	8 8	4 2 6	4 4 0	4 3 0		.	...	..	...	...	...	...		Manbhoom

T In subdivisions retail prices of salt per rupee are :- Begusarai 9½ seers and Jamui 9 seers
U In subdivisions retail prices of salt per rupee are :—Kissengunge 8 seers and Arrarcah (at Ranigunge) 9 seers.
V In Khoorda subdivision retail price of salt 11 seers per rupee.
W At Bhudruck retail price of salt 9 seers per rupee
X At Govindpore retail price of salt 9 seers per rupee.

Published for general information

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A P	R. A. P.	R. A P	R A P.	R A P	R. A P.	R. A. P.	R. A P.	R A P	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ..	2 12 2	2 12 3	2 14 3	2 2 6	2 1 11	2 2 3	4 6 5	4 10 2	3 11 6	2 11 4	2 12 0	2 6 0
2	Serajgunge ...	2 4 0	2 8 0	2 5 0	...	...	...	5 8 0	5 8 0	3 6 0	2 12 0	3 0 0	2 6 0
3	Dacca ...	3 0 0	3 0 0	2 10 0	2 7 0	2 7 0	1 15 0	3 0 0	3 4 0	2 12 0	2 7 0	2 12 0	2 8 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 4 0	2 4 0	2 12 0	3 0 0	2 3 0
5	Chittagong ...	3 8 0	3 8 0	3 8 0	...	.		4 8 0	4 8 0	2 12 0	2 8 0	2 8 0	2 1 0
6	Patna ...	Red. 2 4 6 / White. 2 9 0	Red. 2 4 0 / White. 2 9 0	... / 2 8 0	1 10 0	1 9 6	1 14 0	3 12 0	3 12 0	3 8 0	2 2 6	2 0 0	2 7 0
7	Balasore ...	2 8 0	2 8 0	3 8 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 4 0	2 4 0	2 4 0	1 10 0
8	Pooree ...	...	...	...	...	...	.	...	...	...	1 15 0	1 15 0	2 2 6
9	Cuttack ...	3 0 0	3 0 0	3 0 0	...	...	...	3 0 0	3 0 0	3 4 0	2 0 0	2 3 0	2 0 0

CALCUTTA,
The 7th January, 1890.

JOWAR OR CHOLUM. (*Sorghum Vulgare.*)			BAJRA OR CUMBU. (*Pennisetum typhoideum.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
2 1 7	2 7 0	2 0 0	2 13 7	2 12 3	3 1 6
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
1 12 0	1 9 6	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	..	...	...	...

Marua or Ragi. (*Eleusine Corocana.*)			Kangni or Kakun. Italian Millet. (*Setaria italica.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...	2 4 8	2 6 0	2 0 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
1 10 0	1 7 0	...	2 0 0	2 0 0	2 8 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

in the undermentioned Marts of Bengal on the 31*st December* 1889.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 3 10	2 4 6	2 6 9	1 15 1	1 14 7	2 2 0	2 2 11	2 2 7	2 2 6	0 5 6	0 5 6	0 6 0	3 11 11	3 11 1	3 9 6	Calcutta.
3 0 0	3 4 0	3 5 0	...	...	...	...	...	...	...	...	...	4 2 0	4 2 0	3 13 0	Serajgunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 4 0	4 4 0	4 4 0	Dacca.
3 0 0	3 0 0	3 0 0	...	...	...	3 4 0	3 4 0	3 2 0	0 8 0	0 8 0	0 10 0	4 0 0	4 0 0	3 12 0	Naraingunge.
3 0 0	3 0 0	3 6 0	...	...	...	...	...	...	0 7 0	0 7 0	0 5 0	4 0 0	4 0 0	3 14 0	Chittagong.
1 12 0	1 10 6	2 1 0	1 12 0	1 9 6	1 15 0	1 14 0	1 12 0	1 12 0	0 5 0	0 5 0	0 5 3	3 14 0	3 14 0	3 13 0	Patna.
2 12 0	2 12 0	3 2 0	...	...	...	...	...	...	0 5 0	0 5 0	0 4 6	3 15 0	4 2 0	3 13 6	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Poorea.
2 11 0	2 11 0	2 2 0	...	...	...	2 12 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Benga

STATION OBSERVATIONS.

Meteorological Division	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree	30·010	30·023	—	N	134	?	?	81·5	2nd Jan.	?	56·4	?	?	65·4
		Gopalpore	30·005	30·053	—·061	NNW	209	84·2	2nd Jan.	60·4	2nd ,,	81·5	65·2	73·4	+3·8	67·8
		False Point	30·004	30·020	—·007	NNW	141	80·4	2nd ,,	52 0	2nd ,,	78·3	57·7	68·0	+0·2	65·6
	Cuttack	Cuttack	29·963	30·048	—·049	Calm	21·9	84 8	28th Dec.	55·4	1st ,,	82·8	59 7	71·3	+0·5	64·0
	Balasore	Balasore	29·986	30·048	—·059	NNW	94 8	81·3	28th ,,	51·0	3rd ,,	70·2	55·7	67·4	+1·3	60·6
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·003	30·030	—·068	Northerly.	175	78·2	29th ,,	55·0	2nd ,,	75·9	59·8	67·9	+1·3	63·6
	Midnapore	Midnapore	29·883	30·042	—·109	N	48·6	81·3	28th & 29th Dec.	52·2	31st Dec. to 3rd Jan.	79·6	55·2	67·4	—	62·1
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·006	30·030	—·077	N	69	79 5	28th ,,	52·8	1st ,,	76·6	50·4	66·5	+1·2	60·2
	Burdwan	Burdwan	29·920	30·027	— 089	WNW	87·1†	80·5	28th ,,	52·3	2nd ,,	77·0	55·9	66·8	+1·4	59·7
	Bankoora	Bankoora	29·703	30·023	—·078	W	66·7	79·1	28th & 29th Dec.	52·0	2nd ,,	77·3	55·3	66 3	+1·4	59·8
	Beerbhoom, West Burdwan	Ranegunge	29·697	30·051	—·073	W & WNW	61·0	79·5	28th & 29th Dec.	52·2	2nd ,,	78·3	55·4	66·8	+1·9	59·2
	Moorshedabad	Berhampore	29·949	30·020	— 003	Northwesterly.	42·4	78·1	28th ,,	53·2	2nd ,,	75·7	55·1	65·5	+1·2	57·8
	Nuddea	Krishnaghur	29·931	30·051	—·056	WNW	75·8	80·3	28th ,,	49·6	1st ,,	77·2	53·8	65·5	+2·2	59·2
East Bengal.	Jessore, Khoolna	Jessore	29·930	30·015	—·079	Calm & NW	39·7	80·7	28th ,,	52·5	2nd ,,	77 1	56 5	66·9	+2·1	59·6
	Chittagong	Chittagong	29 904	29·998	—·094	W	42·6	80·6	28th ,,	56·6	2nd ,,	78 2	58·7	68·5	+2·1	63·5
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·995	30·008	—·069	Calm & NW	38·2	79·3	28th Dec.	55·1	1st ,,	76·6	56·4	66·5	+2 1	60·6
	Noakholly	Noakholly	29·968	30·014	—	Calm	73·1	81·3	28th ,,	53·0	2nd ,,	77·6	54·5	66·1	—	62·3
	Furreedpore	Furreedpore	29·978	30 020	—·063	Calm	42·9	73·8	29th Dec. & 3rd Jan.	53·5	1st ,,	73·6	56·6	65·1	+1·8	60 7
	Dacca	Dacca	29·972	29·996	—·096	Northerly.	72·6	80·6	28th Dec.	54·3	1st & 2nd Jan.	77·9	56 6	67·3	+1·2	61·7
	Tipperah	Commillah	29·984	30·021	—·061	N	15·9	80·4	28th ,,	54·0	2nd ,,	78 2	55·4	66 7	+3·4	63·5
	Mymensingh	Mymensingh	29·946	30·007	—·079	Calm	32·2	78·9	28th ,,	53 4	28th Dec.	76·3	54·9	65·6	+2 7	59·1
North Bengal.	Bogra	Bogra	29·925	29·972	—·083	NW	26·2	78·8	28th ,,	53·1	1st Jan.	76·7	53·8	65·2	+0·5	58·9
	Pubna	Serajgunge	29·950	29·999	—·088	W & WNW	8·7	78·9	28th ,,	51·5	1st ,,	77·0	54·4	65·6	+2·7	59·3
	Rajshahye	Rampo Beauleah	29·942	30·015	— 069	N	78·3	78·4	28th ,,	51·7	1st ,,	75·7	54 3	65·0	+3·5	58 9
	Maldah	Maldah	29·951	30·037	—	NW	83·5	78 0	28th ,,	50·4	2nd ,,	76·5	52 0	64·2	—	60·0
	Dinagepore	Dinagepore	29·901	30·030	—·082	NW	47·9	78·1	28th ,,	49 3	31st Dec. & 1st Jan.	76·4	50 9	63·6	+1·4	56·3
	Rungpore	Rungpore	29·905	30·039	—·097	NNW	22	77 6	28th ,,	49 1	31st Dec.	76·1	51·4	63·8	+2·0	56·1
	Julpigoree, Cooch Behar	Julpigoree	29·753	30 058	—·076	N	?	?	?	50 9	30th ,,	?	52·3	?	?	56·4
	Darjeeling Hill Tracts	Darjeeling	22·959	—	—	NE	74·4	55·0	29th ,,	36 7	3rd Jan.	53·7	38·1	45·9	+6 0	41·6
North Behar.	Purneah, North Bhagulpore	Purneah	29 894	30·031	—·082	Calm	27·6	75·2	28th ,,	48·0	28th Dec.	73 8	49·0	61·4	+0·6	52·3
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·873	30·052	—·067	WSW	51·1	76·4	28th Dec.	51·2	1st Jan.	75·1	53 0	64·0	+2·2	56·5
	Chumparun	Motihari	29·803	30·049	—·05)	Variable	94·7	75·6	28th ,,	44·9	1st ,,	75·2*	48·0	61·6*	+0·7	53·3
	Sarun	Chupra	Observations incomplete.													
South Behar.	Shahabad	Dehree	29·693	30·073	—·061	SSW	152·9	78·8	1st Jan.	47·8	3rd ,,	76·5	52·0	64·2	+3·7	56·9
		Buxar	29·802	30·063	—·064	WNW	79 7	76 3	1st ,,	47·9	2nd ,,	74 x	51·1	62·7	+1·8	55·0
		Arrah	29 894†	30·094†		WSW	63 1	77·3	1st ,,	47·0	2nd ,,	74 8	49·9	62·4	+2·6	54 3
	Gya	Gya	29·859	30·065	—·061	S	119·0	78·5	1st ,,	49·3	2nd ,,	75·6	51·4	63·6	+1·0	55 9
	Patna	Bankipore	29·861	30·057	—·079	Calm & W	42·0	76·7	1st ,,	50·2	2nd ,,	74·4	51·6	63·0	+2·5	56·9
	South Bhagulpore, Monghyr	Bhagulpore	29·802	30·034	—·071	WNW	43·9	77·3	1st ,,	49·1	1st & 2nd Jan.	75·3	50·4	62·9	+1·8	55·2
	Sonthal Pergunnah	Doomka	29·814	30·049	—	NNW	40·5	77·6	28th Dec.	48 8	2nd ,,	75·2	51·0	63·1	—	56·1
Chutia Nagpur	Hazaribagh	Hazaribagh	27 964	30·069	—·063	Southwesterly.	193·4	75·2	29th ,,	47·4	2nd ,,	72 1	50·3	61·2	+1·0	57·0
	Lohardugga, Manbhoom	Ranchee	27·833	30·058	—·064	Variable	112·3	75·5	29th ,,	45·1	3rd ,,	73·1	49·5	61·3	+1·3	56·5
	Singbhoom	Chyebassa	29·254	30·061	—	SSW	25·7	80·5	29th ,,	49·0	2nd ,,	78·7	52·3	65·5	—	59·7

* Means of five days. | † Means of six days.

Explanation —Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the la

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb

are the arithmetical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the pa

stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 3rd of January 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of December 1889. Mean for district.	Since 1st of December 1889. Normal mean.	Since 1st of December 1889. Variation.	Since May 15th, 1889. Mean for district.	Since May 15th, 1889. Normal mean.	Since May 15th, 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
86	0·7	Nil	Nil	0·02	0·35	0·86	−0·51	74·88	55·18	+19·70	0·0	0·1	Pooree ..	Pooree	Orissa.
78	0·6	Nil											Gopalpore ...		
87	0·4	Nil											False Point ..		
75	2·6	Nil	Nil	0·01	0·05	0·58	−0·53	66·24	51·55	+14·69	0·0	0·1	Cuttack ...	Cuttack	
84	0·7	Nil	Nil	0·10	0·02	0·38	−0·36	49·80	52·65	−2·76	0·0	0·2	Balasore ...	Balasore	
87	1·0	Nil	Nil	0·06	0·04	0·40	−0·36	58·43	62·04	−3·61	0·0	0·1	Saugor Island .	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
72	1·0	Nil	Nil	0·14	Nil	0·39	−0·39	46·29	51·14	−4·85	0·0	0·2	Midnapore	Midnapore	
82	0	Nil	Nil	0·09	Nil	0·38	−0·38	53·38	51·25	+2·13	0·0	0·2	Calcutta ...	24-Pergunnahs... ...	
														Howrah	
														Hooghly	
72	0	Nil	Nil	0·03	Nil	0·21	−0·21	43·83	46·31	−2·48	0·0	0·1	Burdwan ...	Burdwan	
72	1·1	Nil	Nil	0·01	Nil	0·31	−0·31	55·88	52·29	+3·59	0·0	0·1	Bankoora ...	Bankoora	
76	0	Nil	Nil	0·03	Nil	0·15	−0·15	52·44	51·18	+1·26	0·0	0·1	Ranegunge ...	Beerbhoom	
														West Burdwan ...	
87	0	Nil	Nil	0·04	Nil	0·18	−0·18	51·15	50·02	+1·13	0·0	0·1	Berhampore .	Moorshedabad ..	
85	0	Nil	Nil	0·07	Nil	0·21	−0·21	51·49	48·90	+2·59	0·0	0·2	Krishnaghur ...	Nuddea	
93	0·3	Nil	Nil	0·07	0·00	0·33	−0·27	53·39	52·71	+0·68	0·0	0·2	Jessore ...	Jessore	
														Khoolna	
91	2·7	Nil	Nil	0·06	0·42	0·62	−0·20	100·02	113·04	−13·02	0·0	0·2	Chittagong ...	Chittagong	East Bengal.
			Nil	0·05	0·68	0·60	+0·08	65·13	80·65	−15·52	0·0	0·2	Demagiri ...	Chittagong Hill Tracts	
91	0	Nil	Nil	0·05	0·24	0·48	−0·24	77·82	76·37	+1·45	0·0	0·2	Barrisal ...	Backergunge	
90	0	Nil	Nil	0·20	0·26	1·01	−0·75	90·29	106·01	−15·72	0·0	0·3	Noakholly ...	Noakholly	
91	0	Nil	Nil	0·05	0·02	0·18	−0·16	60·23	55·44	+4·79	0·0	0·1	Furreedpore ...	Furreedpore	
86	1·3	Nil	Nil	0·04	Nil	0·20	−0·20	74·59	59·25	+15·34	0·0	0·1	Dacca ...	Dacca	
85	0	Nil	Nil	0·07	0·02	0·44	−0·42	55·45	68·87	−13·42	0·0	0·2	Commillah ..	Tipperah	
93	1·4	Nil	Nil	0·09	Nil	0·24	−0·24	87·63	67·22	+20·41	0 0	0·2	Mymensingh ...	Mymensingh	
86	0	Nil	Nil	0·05	0·01	0·19	−0·18	64·81	56·94	+7·87	0·0	0 1	Bogra ...	Bogra	North Bengal.
90	0·3	Nil	Nil	0 06	0·08	0·17	−0·09	55·07	52·90	+2·17	0·0	0·1	Serajgunge .	Pubna	
82	0	Nil	Nil	0·01	Nil	0·14	−0·14	54·30	53·32	+0·98	0·0	0·1	Rampore Beauleah	Rajshahye	
86	0	Nil	Nil	0·03	Nil	0·13	−0 13	39·76	53·75	−13·99	0·0	0·1	Maldah ..	Maldah	
89	1·6	Nil	Nil	0·01	Nil	0·19	−0·19	57·37	56·60	+0·77	0·0	0·1	Dinagepore ..	Dinagepore	
90	0	Nil	Nil	0·03	Nil	0·18	−0·18	85·16	73·72	+11·44	0·0	0·1	Rungpore ...	Rungpore	
89	0	Nil	Nil	0·01	Nil	0·17	−0·17	117·13	111·20	+5·93	0·0	0·1	Julpigoree ...	Julpigoree	
														Cooch Behar	
57	2·9	Nil	Nil	0·05	Nil	0·34	−0·34	132·75	120·29	+12·46	0·0	0·2	Darjeeling ...	Darjeeling Hill Tracts	
94	0·9	Nil	Nil	0·05	Nil	0·14	−0·14	74·71	58·15	+16·56	0·0	0·1	Purneah ..	Purneah	North Behar.
														North Bhagulpore ...	
			Nil	0·06	Nil	0·14	−0·14	48·66	42·63	+6·03	0·0	0·2	Mozufferpore ...	Mozufferpore	
87	0	Nil	Nil	00·9	Nil	0·17	−0·17	51·84	44·10	+7·74	0·0	0·2	Durbhunga ...	Durbhunga	
89	0	Nil	Nil	0·05	Nil	0·23	−0·23	63·55	46·14	+17·41	0·0	0·2	Motihari .	Chumparun	
			Nil	0·02	Nil	0·17	−0·17	40·13	42·21	−2·08	0 0	0·1	Chupra ...	Sarun	
74	0	Nil											Dehree ...		Shahabad.
74	0	Nil	Nil	0·06	Nil	0·38	−0·38	40·07	39·62	+0·45	0·0	0·2	Buxar ...	Shahabad	
82	0·1	Nil											Arrah ..		
67	0	Nil	Nil	0·06	Nil	0·28	−0·28	37·07	40·92	−3·85	0·0	0·2	Gya ...	Gya	
75	0·3	Nil	Nil	0·06	Nil	0·18	−0·18	43·49	40·81	+2·68	0·0	0·2	Bankipore ...	Patna	
87	0	Nil	Nil	0·04	Nil	0·11	−0 11	42·43	43·08	−0·65	0·0	0·2	Bhagulpore ...	South Bhagulpore	
														Monghyr ...	
80	0	Nil	Nil	0·05	Nil	0·15	−0·15	54·15	50·34	+3·81	0·0	0·2	Doomka ...	Sonthal Pergunnahs...	
64	0	Nil	Nil	0·04	Nil	0·31	−0·31	45·03	50·11	−7·08	0·0	0·1	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
71	0·9	Nil	Nil	0·06	Nil	0·42	−0·42	44·34	48·64	−4·30	0·0	0·2	Ranchi ...	Lohardugga	
			Nil	0·03	Nil	0·23	−0·23	38·33	40 45	−5·12	0·0	0·1		Manbhoom	
75	0 6	Nil	Nil	0·03	Nil	0·41	− 0·41	42·76	50 81	−2·05	0·0	0·2	Chyebassa ...	Singbhoom	

ton years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of January 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 28th December 1889.	Sunday, 29th December.	Monday, 30th December.	Tuesday, 31st December.	Wednesday, 1st January 1890.	Thursday, 2nd January.	Friday, 3rd January.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of December 1889.	Average total rainfall from 1st of December 1889.	Total rainfall since 15th May 1889.	Average rainfall from 15th May 1889 to date
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·74	80·63	51·06
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·54	76·57	56·25	
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	1·29	65·50	48·02
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·04	0·84	76·80	03·25
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	73·97	46·73
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·87	52·43	49·26
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	75·18	56·02
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·26	0·51	72·03	52·78
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·74	57·64	53·03
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·18	0·89	54·94	51·99
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	57·06	51·29
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	46·05	50·86
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	48·61	57·49
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	30·59	53·39
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	54·79	53·51
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·46	55·13	51·01
		Saugor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·40	56·74	06·74
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	49·40	50·27
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	46·26	48·32
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	43·19	54·19
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·05	?
		Heria ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·06	?
		Bhagwanpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·72	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·35	63·41	57·05
		Canning Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·17	?	57·80	?
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	51·80	55·23
		Barrackpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	51·79	49·45
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	64·58	51·19
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	57·61	49·38
		Busserhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	60·92	54·17
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	59·12	51·42
		Mohesreka (*Coloberiah.*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	54·64	51·66
	Hooghly ...	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	55·27	49·75
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	54·92	47·79
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·23	41·16	54·68
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	41·32	43·96
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	47·07	47·52
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	43·11	47·35
		Kanecgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	55·83	48·49
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·71	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	50·79	51·16
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	57·49	51·60
		Maliara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23		51·58
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	65·91	53·73
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·44	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·33	?
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	59·06	53·27
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	47·07	48·80
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	47·76	51·02
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·07	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	53·80	46·61
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	42·95	45·74
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	49·81	50·72
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	53·05	47·33
		Koomhee ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	53·91	54·05
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·01	0·43	52·51	54·32
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·31	0·30	54 00	60·33
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·18	0·42	55·78	54·25
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	49·47	45·36
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·81	62·35	53·80
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	50·56	53·02
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 21	56·48	48·92
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	48·01	51·42
	Moorshedabad ...	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	53·38	50·70
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	48·16	50·77
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	47·13	50·55
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13		50·45
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	55·01	48·68
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	59·02	50·19
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·25	?
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·81	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·13	0·45	123·59	105·06
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·71	0·75	76·43	93·32
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	?	63·06	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	0·64	63·04	83·18
		Luma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·95	0·55	67·20	79·83
	Backergunge ...	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·56	87·20	87·16
		Perosepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·34	72·10	69·37
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·44	0·39	72·02	67·02
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·27	0·04	79·26	81·59

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of January 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 28th December 1889.	Sunday, 29th December.	Monday, 30th December.	Tuesday, 31st December.	Wednesday, 1st January 1890.	Thursday, 2nd January.	Friday, 3rd January.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of December 1889.	Average total rainfall from 1st of December 1889.	Total rainfall since 15th May 1889.	Average rainfall from 15th May 1889 to date.
East Bengal —concld.		*Gournaddi* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Bauphal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·35	?	92·89	?
	Noakholly ...	Noakholly ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	0·75	102·17	107·31
		Fenny ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	1·25	78·88	106·15
		Hariskpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·39	?	82·96	?
		Ramganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·06	0·19	60·86	54·97
		Furreedpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	63·80	55·92
		Goalundo ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	56·29	52·61
	Dacca ...	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	76·33	69·61
		Dacca ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	78·69	58·08
		Naraingunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	80·36	59·45
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	67·99	49·59
		Joydebpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·61	?
	Hill Tipperah	Agartola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	44·08	60·95
	Tipperah ...	Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·52	62·17	75·49
		Chandpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	64·82	75·27
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	50·68	61·00
		Kamchandrapore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·14	?
		Nasirnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·59	?
		Daudkandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·29	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·44	?
		Laksham ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·09	?
	Mymensingh...	Kishoreegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	69·56	69·56
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	0·10	61·00	54·98
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	96·55	75·63
		Jamalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	85·14	64·75
		Netrokona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	125·92	72·61
		Subornakhally	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·43	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	149·09	?
		ShereporeTown	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·00	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·31	?
North Bengal.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·15	49·87	53·30
		Serajgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·13	0·17	60·26	52·43
	Bogra ...	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	62·66	57·08
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	60·96	53·87
		Bogra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·14	70·63	60·17
		Panchbibi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·90	55·41
	Rajshahye ...	Beauleah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	46·20	52·52
		Nattore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	58·84	54·31
		Naogaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	57·87	50·64
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·72	?
		Manda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	50·53	51·29
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	28·96	56·20
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·77	?
	Dinagepore ...	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	53·63	55·83
		Churamon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	51·83	51·93
		Raigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	52·35	57·26
		Dinagepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	67·24	63·02
		Balcorrhat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	61·28	50·90
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·47	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	87·55	61·29
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	76·41	73·96
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	90·97	72·23
		Bagdogra (*Nilphamari*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	87·69	84·64
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·00	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	123·27	116·45
		Alipore Door	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·88	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	127·43	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89·92	?
		Bhagatpore (Nagrakatta).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	138·51	?
	Cooch Behar..	Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	98·00	59·72
		Cooch Behar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	125·34	117·80
		Mickilgunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	121·37	103·21
		Matabhanga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	117·03	111·16
	Darjeeling Hill.	Buxa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·01	0·51	191·08	191·71
		Silliguri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	190·71	192·50
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	127·87	109·14
		Kalimpong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	91·36	82·80
		Kursoong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	168·25	?
North Behar	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	102·37	69·81
		Arrareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	79·61	63·27
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	63·45	61·16
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Kaisuganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	60·85	49·09
		Soopool ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	67·26	47·74
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·85	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	42·44	42·71
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	50·01	45·35
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	63·11	41·36
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·96	?
		Roshera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	55·03	49·30
		Mozuffer pore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	48·41	41·79
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	48·53	41·41
		Para ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·69	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·03	?
		Sonhar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·60	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of January 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday 28th December 1889.	Sunday, 29th December.	Monday, 30th December.	Tuesday, 31st December.	Wednesday, 1st January 1890.	Thursday, 2nd January.	Friday, 3rd January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of December 1889.	Average total rainfall from 1st of December 1889.	Total rainfall since 15th May 1889.	Average rainfall from 15th May 1889 to date.
North Behar —*concluded.*	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	74·79	44·20
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	52·29	47·49
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·87	?
		Bathurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	35·48	42·72
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	44·20	43·24
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	40·74	39·94
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	47·44	37·88
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·67	45·66	39·31
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	35·16	40·28
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	29·61	40·22
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	42·69	39·72
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	35·42	42·30
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	39·35	42·08
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	39·59	39·44
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	33·40	39·44
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Isadnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·69	?
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·39	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·93	?
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·99	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	51·49	41·46
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	45·53	41·02
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	41·08	41·35
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	35·83	39·37
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·28	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·21	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	47·62	39·63
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	41·67	46·09
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	39·48	42·36
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·19	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	45·06	41·76
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	38·34	43·23
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	?
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	39·90	32·06
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	49·04	47·14
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	73·59	55·08
		Nya Doomka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	56·75	51·71
		Deoghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	40·40	50·20
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	45·21	43·74
		Mohagama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·41	?
		Nanihat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·87	?
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	38·90	47·10
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	49·10	46·54
		Somtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	36·24	46·41
		Mahudi Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36		47·37
		Jhoomra Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	43·00	62·03
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·26	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·04	?
		Keragdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·35	?
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Lohardugga...	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	45·24	50·46
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	53·61	51·53
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	34·16	48·63
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
		Bolumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hossenabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28·77	?
	Singbhoom	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	46·76	51·01
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·80	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·70	?
		Baharagora...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	42·46	49·54
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	33·19	44·51
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·22	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·43	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·56	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 7th January* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 3RD JANUARY 1890.

THE meteorology of the week ending the 27th of December 1889 had been important from the formation of a cyclonic storm in the south of the Bay which had advanced in a north-westerly direction, crossing the Madras coast between Masulipatam and Nellore on the afternoon or evening of December 26th. An advance of humid winds had passed over Bengal in connection with the storm, and heavily-clouded skies and in a few cases light rain showers had occurred over the southern districts of the province. With the gradual disappearance of the storm, and on its passing inland on the 26th, the weather in Bengal began to improve, and on the 26th and 27th conditions were decidedly less disturbed than they had been, while the skies had even commenced to clear.

The gradual return to the normal conditions for the cold weather season which had therefore commenced at the close of last week, continued at the beginning of the present week, and by the middle of the week conditions had become nearly normal. In the earlier part of the week, therefore, temperature, and particularly the night temperatures, fell rather rapidly, humidity also decreased, and the sky cleared rather quickly, while rainfall became entirely absent.

Pressure—Rose very slowly on the first day of the week, it then fell moderately for the next three or four days, commencing to rise again rather briskly on the 2nd January, which rise continued on the 3rd. The mean pressure of the province for the week has, however, been very considerably in defect of the normal, the defect usually ranging from five to about eight hundredths of an inch. This defect has been fairly equally distributed over the whole province.

Temperature—Has fallen generally during the week, but still the average mean temperature of the province has been nearly 2° above the normal. This excess has been largest in South-West and East Bengal and in South Behar, where the excess has equalled between two and three degrees.

The general temperature recorded during the week in the different districts of the province can be seen from the following table, where the average maximum, minimum and mean temperatures at nine typical stations are compared with their normal values for the same period. It will be seen that exceptionally high day temperatures have been recorded at Darjeeling, where the actual is almost 10° higher than the normal. The night temperatures at the same station exceed the normal by three degrees. Generally speaking, however, the excess temperatures are fairly equally divided over both day and night:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 3rd January 1890.

	Normal mean maximum temperature for the week ending 3rd January.	Actual mean maximum temperature for the week ending 3rd January 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 3rd January.	Actual mean minimum temperature for the week ending 3rd January 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 3rd January.	Actual mean daily temperature for the week ending 3rd January 1890.	Variation of actual mean from the normal.
Cuttack	82·3	82·8	+0·5	59·2	59·7	+0·5	70·8	71·3	+0·5
Calcutta	75·2	76·6	+1·4	55·2	56·4	+1·2	65·3	66·5	+1·2
Dacca	76·7	77·9	+1·2	55·4	56·6	+1·2	66·1	67·3	+1·2
Burdwan	76·5	77·6	+1·1	53·9	55·9	+2·0	65·4	66·8	+1·4
Patna	71·9	74·4	+2·5	48·7	51·6	+2·9	60·5	63·0	+2·5
Gya	73·9	75·6	+1·7	50·9	51·4	+0·5	62·6	63·6	+1·0
Purneah	74·2	73·8	−0·4	47·1	49·0	+1·9	60·8	61·4	+0·6
Hazaribagh	71·0	72·1	+1·1	49·3	50·3	+1·0	60·2	61·2	+1·0
Darjeeling	44·5	53·7	+9·2	34·8	38·1	+3·3	39·9	45·9	+6·0

Rainfall—Has been entirely absent from the province throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 3rd of January 1890 :—

Meteorological Divisions.	Temperature						Rainfall								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of December 1889.		Since 15th May 1889
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average	Average.	Normal average.
Orissa*	84·8	51 0	80 4	59·0	70 0	+1·5	Nil	0 05	—0 05	0 0	0 2	—0·2	0 12	0 58	62 01	53·54
South-West Bengal ...	81·3	49 6	77 2	55·9	66 4	+2 3	Nil	0 06	—0 06	0 0	0 1	—0·1	0 01	0 29	52 37	51 59
East Bengal	81·5	53 0	76 9	56·2	66 5	+2·2	Nil	0 07	—0·07	0 0	0 2	—0·2	0 15	0 42	75 58	73·75
North Bengal*	78 9	49·1	76 4	52·8	64 6	+1·8	Nil	0·02	—0·02	0 0	0·1	—0·1	0 01	0·17	73 12	69 87
North Behar*	76 4	44 9	74 4	50 0	62 1	+1·5	Nil	0 05	—0·05	0 0	0 1	—0 1	Nil	0 16	57·66	48·21
South Behar	78·8	47·6	75·1	51·1	63 1	+2·6	Nil	0 05	—0 05	0 0	0 1	—0·1	Nil	0 22	44·16	43 35
Chutia Nagpur	75 5*	45 1*	72 6*	40 9*	61 2*	+1·1*	Nil	0 05	—0 05	0 0	0 1	—0 1	Nil	0 33	43 08	43·89

* Poorea, Julpigoree, Chupra and Chyebassa not included.

Meteorological Office, Bengal ;
The 7th January 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of December 1889.

	Inches.	Date.	Hour.
The mean pressure of the month	29·987		
The average pressure of December from 24 years' registers ...	30·027		
The highest pressure in the month	30·137	18th	10
The lowest pressure in the month	29 837	31st	16
The range of pressure	0·301		
	Hours.		
The total number of hours of bright sunshine during the month	254·6		
The maximum possible number of hours of sunshine ...	332·8		
	⊖		
The mean temperature of the month	66·2		
The average temperature of December from 24 years' registers	68·0		
The highest temperature in the month	80·1	26th.	
The lowest temperature in the month	51·3	14th.	
The range of temperature during the month	28·8		
The mean daily range of temperature	19·2		
The greatest range of temperature in one day	23·2	14th.	
	Per cent.		
The mean humidity of the month	74		
The average humidity of December from 24 years' registers ...	71		
	Inches.		
The mean vapour tension of the month	0·474		
The average vapour tension of December from 9 years' registers	0·476		
The mean cloud proportion of the month	1·49		
The average cloud proportion of December from 12 years' registers	1·74		
	Inches.		
The total rainfall of the month	0·03		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0·03		
The average fall of December from 48 years' registers ...	0·23		
The greatest fall in 24 hours	0·02	25th.	
	Days.		
The number of rainy days in the month	2		
The average number of rainy days in December from 24 years' registers	1		
	⊖		
The mean maximum equilibrium temperature of solar radiation during the month	129·7		
The mean difference of sun and air temperatures	53·4		
The greatest sun temperature	137·2	2nd.	
The greatest excess of sun over air temperature	61·3	2nd.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	50·0		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	7·2		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	9·5	15th.	
	Miles.		
The mean movement of the wind per day	54·3		
The greatest movement of the wind in one day	93·0	24th.	
The greatest movement of the wind in one hour	11·0	8th 11 to noon.	

The number of hours with winds from each of the 8 points—

N. 336, N.E. 91, E. 42, S.E. 9, S. 5, S.W. 6, W. 28, N.W. 115, Calm 112.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2·3° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 6th January 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 29th December 1889 to 4th January 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr	Temperature				Hygrometry.				Wind.		Rain.	Weather
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1889.		°		Inches	°	°	°	°	°	Inches	°	%			Inches.	
Dec	29th	128 7	9 3	30 000	68·0	76 5	16·4	60 1	61 2	0 450	56·0	66	NNE, N and NNW	85	Nil	Chiefly clear, ≏.
,,	30th	128 5	9·1	29 969	66 3	76·5	18 3	58·2	60 5	·452	56 1	71	N and NNW ...	77	,,	Clear, ≏.
,,	31st	128 4	9 2	·897	64 1	74 7	20·6	54·1	58 9	·432	54·9	74	NE, WNW and NW	53	,,	Clear, ≏, =.
1890 Jan	1st	126 5	8·7	·861	64 3	75 7	22 8	52 9	57·5	·385	51 6	68	SW, WNW and calm	70	,,	Clear, ≏, =.
,,	2nd	129 1	9 1	922	63 9	74 8	21·1	53 7	57 3	·387	51 8	67	W and NNW .	75	,,	Clear, ≏.
,,	3rd	125 8	8·8	954	64 0	74 7	20 4	54·3	58 6	·421	54 2	71	N and NNW .	46	,,	Chiefly clear, ≏, =.
,,	4th	134 7	7·1	·947	65·7	75·9	18 7	57 2	61 9	501	59 2	80	NNW and calm .			Partially cloudy, ≏.

	Inches.
The mean pressure of the seven days	29·936
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·031
	Hours.
The total number of hours of bright sunshine	61·3
The maximum possible number of hours of sunshine	75·2
	°
The mean temperature of the seven days	65·2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	67·0
The extreme variation of temperature	23·6
The maximum temperature	76·5
	Miles.
The highest velocity of the wind in one hour up to noon of the 4th January 1890	9
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	71
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 29th December 1889 to 4th January 1890 ...	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	Nil
The total fall from 1st January 1889 to 4th January 1890	57 47
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	63·24

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏ dew; = fog.

	Inches.
The total rainfall in the year 1889	57·47
The average rainfall of the corresponding period for 24 years, S.-G's. Office ...	63·24

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 6th January 1890

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of December 1889.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	30·063	
	°	
The mean temperature at 10 A.M. during the month	70·5	
The highest temperature during the month	81·4	24th and 26th.
The lowest temperature during the month	52·1	14th.
The absolute range of temperature during the month	29·3	
The mean daily range of temperature during the month ...	20 0	
The greatest range of temperature in one day during the month ...	23·8	14th.
	%	
The mean 10 A.M. humidity during the month	67	
	Inches.	
The mean 10 A.M. vapour tension during the month	·501	
The total rainfall of the month	0·05	
The greatest fall in 24 hours	0·05	26th.
	Days.	
The number of rainy days in the month	1	

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,
The 6th January 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 29th December 1889 to 4th January 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Temperature. Dry bulb at 10 A.M.	Temperature. Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Hygrometry. Dew point at 10 A.M.	Hygrometry. Humidity at 10 A.M.	Rainfall past 24 hours
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Dec. 1889 ...	29th ...	30·086	68·6	77·1	17·0	60·1	70 0	61·7	·440	55·4	60	
,, ,, ..	30th ...	·080	66·7	75·9	18 5	57·4	68·1	62·2	·482	57·9	70	...
,, ,,	31st ...	·063	65·4	75·9	21·0	54·9	68·6	63·2	·509	59·4	72	....
Jan. 1890 ...	1st ...	29·951	65·5	75·9	20·9	55·0	68·6	60 7	·427	54·5	61	.. ...
,, ,, ...	2nd ...	30·006	65·3	76·1	21·7	54·4	68·6	61·2	·443	55·6	63	.....
,, ,, ..	3rd ...	·021	65·2	75·5	20·6	54·9	67·6	60·2	·424	54·4	62	.
,, ,, ..	4th ...	29 996	67·3	77·7	20·8	56·9	69·8	63·6	·506	59·3	69	.....

		Inches.
The mean 10 A.M. pressure of the seven days	30·029	
	°	
The mean temperature of the seven days	66·3	
The extreme variation of temperature	23·3	
The maximum temperature	77·7	
	%	
The mean 10 A.M. relative humidity of the seven days	65	
	Inches.	
The total fall of rain from 29th December 1889 to 4th January 1890 ...	Nil	

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE. INDIA ;
The 6th January 1890

MEMORANDUM.

THE chief features in connection with the vital statistics of the principal Municipalities in Bengal for the week ending 21st December 1889, are the following:—

1. That births and deaths were registered in these Municipalities at the rates, respectively, of 25·2 and 30·2 per 1,000 of population, as opposed to 26·9 and 31 6 per 1,000 in the preceding week ending 14th December, indicating a retrogression in the registration of both the events

2. That these events were returned in the highest proportions from the following Municipalities:—

Births.

	Ratio per *mille.*
Arrah	50·2
Naraingan j	41·4
Serampore	39·3
Hughli and Chinsurah	37·7
Rampore Beauleah	36·8
Ranaghat	35·9
Comillah	34·7
Bhagulpore	34·4
Durbhanga	33·0
Howrah	32·1
Santipore	31·5
Jessore	30·6

Deaths.

	Ratio per *mille.*
Poori	90·2
Jessore	73·5
Hughli and Chinsurah	72·2
Serampore	70·7
Narainganj	70·4
Utterpara	56 6
Purneah	48·5
Comillah	46 2
Burdwan	45·8
Ranaghat	41·9
Bhagulpore	34·4
Rampore Beauleah ...	34·2
Monghyr	33·4
Gya	32·1
Chittagong	30·5

3. That the mortality from the principal death-causes stood as follows, in comparison with that of the preceding week:—

	Ratio per *mille* during the weeks ending—	
	21st December 1889.	14th December 1889.
Cholera	2·4	4·7
Small-pox	·2	·2
Fever	12·8	13·4
Bowel-complaints	5·2	5·0
Injury	·5	·4
Other causes	9·1	7·9

indicating chiefly that there was a noticeable decrease in the death-rate from cholera with an increase in that from the maladies classed under the head of "Other causes."

4. That while only one town (Poori, mortality 10·5 per 1,000 of population) exhibited fatal results from small-pox, and that to a noticeable extent, and injury shewed no conspicuous fatality anywhere, the under-mentioned Municipalities returned the highest death-rates from cholera, fever, bowel-complaints, and "Other causes":—

Cholera.

	Ratio per *mille.*
Narainganj ...	29·0
Serampore ...	7·8
Dacca ...	7·8
Hughli and Chinsurah ...	6·6
Howrah ...	2 9

Fever.

	Ratio per *mille.*
Jessore ...	61·2
Purneah ...	38 1
Poori ...	37·7
Hughli and Chinsurah ...	31·1
Burdwan ...	30·5
Rampore Beauleah	26·3
Darjiling ...	22 2
Chittagong ...	21·1

Bowel-complaints.

	Ratio per *mille.*
Serampore ...	27 5
Hughli and Chinsurah ...	19 7
Comillah ...	15 4
Poori ...	12 6

Other causes.

	Ratio per *mille.*
Poori ...	25 2
Ranaghat ...	23·9
Narainganj ...	20·7
Comillah ...	19·2
Serampore ...	15·7
Bhagulpore ...	15·4
Monghyr ...	14 4
Midnapore ...	12·4
Gya ...	12·3
Hughli and Chinsurah ...	11·5
Durbhanga ...	10·2
Chupra ...	10·1

5. That the mortality according to *Sex*, *Class* and *Age* stood as shown below:—

According to Sex.

	Ratio per *mille.*
Males	32·7
Females	27·5
Ratio of male deaths to every 100 female deaths	128

According to Class.

	Ratio per *mille.*
Christians	7·5
Hindus	30·9
Mahomedans ...	29·1

According to Age.

	Ratio per *mille.*
Under 1 year ...	204·9
1 and under 5 years ...	32·5
5 „ 10 „ ...	17·9
10 „ 15 „ ...	11·9
15 „ 20 „ ...	11 6
20 „ 30 „ ...	17·7
30 „ 40 „ ...	22 3
40 „ 50 „ ...	25·7
50 „ 60 „ ...	40·3
60 years and upwards ...	87·8

The 6th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 21st December 1889.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease															Sex.			
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.						Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths.
Burdwan ..	Burdwan	18,663	16,017	34,680	5	8	13	7·6	12·2	19·8	62	...	...	20	5	...	5	30	...	...	30·5	7·6	..	7·6	45·8	27·5	19	11	54·7	33·7	172
Midnapore ...	Midnapore ..	16,927	16,633	33,560	2	10	12	3·1	15·5	18·6	20	...	...	3	...	...	8	11	...	...	4·6	...	...	12·4	17·0	21·7	4	7	12·3	21·9	57
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	12	11	23	19·7	18·0	37·7	109	4	...	19	12	2	7	44	6·6	...	31·1	19·7	3·3	11·5	72·2	59·1	28	16	91·8	52·6	175
Serampore ...	Serampore ...	13,559	12,937	26,496	11	9	20	21·6	17·7	39·3	122	4	...	9	14	1	8	36	7·8	...	17·7	27·5	2·0	15·7	70·7	54·4	22	14	84·4	56·3	157
	Utterpara	3,046	2,464	5,510	1	2	3	9·4	15·9	28·3	50	1	...	2	2	...	1	6	9·4	...	18·9	18·9	...	9·4	56·6	34·9	4	2	68·3	43·2	200
Howrah ..	Howrah	53,153	37,660	90,813	31	25	56	17·8	14·3	32·1	124	5	...	16	15	...	15	51	2·9	...	9·1	8·6	...	8·6	29·2	40·1	28	25	25·4	34·5	104
	Bali	7,836	6,979	14,815	4	3	7	14·0	10·5	24·6	133	1	...	3	3	...	...	7	3·5	...	10·5	10·5	...	...	24·6	21·1	3	4	19·9	29·8	75
Nuddea ..	Kishnaghur ...	13,263	14,214	27,477	6	6	12	11·3	11·3	22·7	100	...	...	7	...	...	5	12	...	...	13·2	...	...	9·5	22·7	20·8	4	8	15·7	29·3	50
	Ranaghat	4,028	4,655	8,683	1	5	6	6·0	29·9	35·9	20	...	...	3	...	...	4	7	...	...	18·0	...	...	23·9	41·9	24·0	4	3	51·6	33·5	133
	Santipore	13,706	15,979	29,687	11	7	18	29·2	18·3	31·5	157	...	...	2	...	...	1	3	...	...	3·5	...	...	1·7	5·2	17·5	2	1	7·6	3·3	200
Jessore ...	Jessore	4,830	3,665	8,495	3	2	5	13·4	12·2	30·6	150	...	...	10	...	...	2	12	...	...	61·2	...	...	12·2	73·5	91·8	7	5	75·4	70·9	140
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	10	4	14	26·3	10·5	36·8	250	...	...	10	...	...	3	13	...	...	26·3	...	...	7·9	34·2	21·0	9	4	43·5	23·0	225
Darjiling ...	Darjiling	4,579	2,439	7,018	1	...	1	7·4	...	7·4	No female birth.	..	...	3	..	...	...	3	...	...	22·2	..	...	..	22·2	22·2	1	2	11·4	42·6	50
Dacca ...	Dacca	42,782	37,379	80,161	17	6	23	11·0	5·9	14·9	233	12	..	9	8	1	11	41	7·8	...	5·8	5·2	·6	7·1	26·6	33·3	19	22	23·1	30·6	86
	Narainganj ...	7,605	4,956	12,561	4	6	1:	16·6	24·8	41·4	66	7	...	3	2	...	5	17	29·0	...	12·4	8·3	...	20·7	70·4	124·2	11	6	75·2	63·0	183
Chittagong ...	Chittagong ...	13,340	8,796	22,130	2	1	3	4·7	2·3	7·0	200	1	...	9	1	...	2	13	2·3	...	21·1	2·3	...	4·7	30·5	21·1	7	6	27·3	35·5	116
Tipperah ...	Comillah	8,153	5,353	13,506	3	6	9	11·6	23·1	34·7	50	...	...	3	4	..	5	12	...	...	11·6	15·4	...	19·2	46·2	34·7	8	4	51·6	38·9	200
Patna	Patna City ...	78,762	81,475	160,237	26	11	37	8·4	3·6	12·0	236	6	...	16	8	1	12	43	1·9	...	5·2	2·6	·3	3·9	14·0	12·8	29	14	19·1	5·9	207
Gya	Gya	38,290	37,831	76,121	17	19	36	11·6	13·0	24·6	89	2	...	27	...	...	18	47	1·4	...	18·4	...	...	13·3	32·1	35·5	22	25	29·9	34·4	88
Shahabad ...	Arrah	20,960	22,505	43,465	24	18	42	23·7	21·5	50·2	133	...	...	6	3	1	...	10	...	...	7·3	3·6	1·2	...	13·0	22·7	4	6	9·9	13·9	66
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	2	7	9	2·4	8·5	10·9	28	..	...	7	3	2	5	17	..	...	8·5	3·6	2·4	6·1	20·7	14·6	10	7	22·5	18·5	142
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	28	14	42	22·0	11·0	33·0	200	...	...	16	...	...	13	29	...	...	12·6	...	...	10·2	22·8	34·6	12	17	15·5	27·3	70
Saran	Chupra	25,116	26,554	51,670	17	10	27	17·1	10·1	27·2	170	...	...	4	5	1	10	20	...	...	4·0	5·0	1·0	10·1	20·1	14·1	13	7	26·9	13·7	185
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	17	21	38	15·4	19·0	34·4	80	3	...	13	5	...	17	38	2·7	...	11·8	4·5	...	15·4	34·4	22·6	23	15	40·4	28·0	153
Monghyr ..	Monghyr	28,154	29,366	57,520	14	19	33	12·7	17·2	29·8	73	...	...	13	8	...	16	37	...	...	11·8	7·2	...	14·4	33·4	34·4	18	19	33·2	33·8	94
Purneah ...	Purneah	8,463	6,553	15,016	4	1	5	13·8	3·5	17·3	400	...	...	11	2	1	...	14	...	...	38·1	6·9	3·5	..	48·5	34·6	9	5	55·3	39·7	180
Poori	Poori	13,247	11,537	24,784	6	4	10	12·6	8·4	21·0	150	2	5	18	6	...	12	43	4·2	10·5	37·7	12·6	...	25·3	90·2	63·9	28	15	109·9	67·6	186
	Total .	550,988	510,588	1,061,576	279	235	514	13·7	11·8	25·2	118	48	5	262	106	10	186	616	2·4	·2	12·8	5·2	·5	9·1	30·2	31·6	346	270	32·7	27·5	128

DISTRICTS.	NAMES OF MUNICIPALITIES.	13	14									15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	21	9	...	...	...	46·1	45·6	...	...	1	5	3	...	1	3	4	6	1	6	78·8	115·2	66·9	...	16·6	19·7	30·2	70·6	21·2	210·5
Midnapore ...	Midnapore ...	...	10	1	...	...	...	20·1	7·2	...	...	2	...	...	1	...	1	...	2	3	2	140·0	...	...	17·1	...	7·1	...	27·9	75·6	56·8
Hughli ...	Hughli and Chinsurah	...	34	10	...	...	...	69·9	84·3	...	...	9	4	1	1	...	9	6	6	4	4	532·8	93·7	18·0	21·0	...	75·4	54·7	74·8	80·0	100·3
Serampore ...	Serampore ...	...	28	8	...	...	...	57·7	413·5	...	...	5	5	1	1	1	2	5	4	3	9	366·2	144·9	20·7	23·4	23·8	19·3	52·3	61·6	61·5	336·4
	Utterpara ...	...	5	1	...	...	...	48·8	282·6	...	...	1	2	1	...	...	...	2	...	...	...	323·0	247·0	111·6	...	...	...	98·0	...	...	..
Howrah ...	Howrah	...	40	11	...	...	...	36·5	27·9	...	...	7	4	2	2	3	12	4	3	2	12	176·4	37·5	16·5	15·8	21·3	27·5	10·8	13·3	18·9	166·4
	Bali	...	6	1	...	...	...	23·3	39·7	...	...	...	1	1	...	1	1	1	...	1	1	...	52·1	48·8	...	39·0	15·5	18·6	...	49·6	71·0
Nuddea ...	Kishnaghur ...	1	5	6	...	...	91·7	14·6	37·7	...	...	5	...	...	...	...	...	1	...	4	2	524·2	..	...	...	...	...	12·1	...	98·7	60 2
	Ranaghat ...	...	6	1	...	...	...	42·6	38·1	..	...	2	...	1	..	...	...	1	3	...	...	502·4	...	46 6	...	...	...	41·7	155·4	...	...
	Santipore ...	...	2	1	...	...	...	5·0	5·8	...	...	1	...	...	..	...	...	...	..	1	1	61·5	...	...	...	...	...	...	...	22·6	26·5
Jessore ...	Jessore	...	8	4	...	...	...	92·2	54·4	...	...	4	...	...	1	...	2	3	1	1	...	1,072·2	...	...	76·2	...	51·6	103 0	49 5	92·4	...
Rajshahye ...	Rampore Beauleah	...	7	6	...	...	...	36·7	31·8	...	...	3	1	2		...	...	...	2	1	4	384·2	36·7	50·0	...	...	...	...	42 4	41·9	216·0
Darjiling ...	Darjiling	...	3	...	...	...	...	34·0	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	36·3	150·3	...	...
Dacca ...	Dacca	...	28	13	...	..	...	36·1	17 2	...	...	4	6	...	3	4	8	6	3	2	5	109·6	42 3	...	19·6	28·5	27·2	26·8	18 6	22·0	46·7
	Naraingunj ...	...	10	7	...	...	...	32·2	39 1	...	...	1	1	...	1	...	4	4	4	...	2	186 4	45 6	...	45 9	...	77 9	97·2	149·3	..	189 5
Chittagong ...	Chittagong ...	...	1	12	...	...	...	9·0	40·8	...	...	4	1	1	...	...	2	4	...	...	1	369·4	26·4	20·8	...	...	22·5	62·4	...	...	65·3
Tipperah ...	Comillah ...	...	4	8	...	..	...	35·0	56·3	...	...	4	1	...	...	...	1	2	1	1	2	700·3	39·8	...	...	...	18·8	52 2	39·6	64·9	153·4
Patna	Patna City ...	...	32	11	...	...	...	14·0	14·0	...	...	6	3	4	4	1	2	4	6	3	10	72·4	10·7	12 4	14·4	4·7	3 6	8·9	16·6	11·0	37·7
Gya ...	Gya	...	41	6	...	...	...	35·5	19·4	...	..	8	7	1	1	1	2	4	1	8	14	232·4	57·3	7·4	7·7	9·9	7·1	16·3	8·3	63·3	141·4
Shahabad ...	Arrah	...	5	5	...	...	...	8·4	21·0	...	...	2	1	1	...	...	1	1	...	2	2	80·7	11·7	10·1	...	..	6·6	8·1	...	33·6	36·1
Mozufferpore...	Mozufferpore ...	...	12	5	...	...	...	20 8	20·8	...	...	4	2	3	1	1	...	2	1	2	1	217·8	25 7	34·7	13·1	17·2	...	14·9	10·4	32·0	21·4
Durbhanga ...	Durbhanga ...	...	22	7	...	...	...	23·6	20·7	...	...	10	...	5	1	1	...	3	1	2	6	334·0	...	33·2	9·4	12·9	...	14 0	7·0	23·7	97·7
Sarun	Chupra	...	14	6	...	...	...	16·4	26·2	...	...	3	3	1	1	...	1	2	2	4	5	110·6	30·2	8 7	10·4	...	5·6	13·4	17·1	50·3	45 9
Bhagulpore ...	Bhagulpore ...	...	26	12	...	...	...	34·0	36·1	...	...	4	7	4	1	...	2	3	4	6	7	174·2	67·2	35·4	8·3	...	9·5	16·8	33·0	73·3	101 1
Monghyr ...	Monghyr	...	29	8	...	...	...	33·7	33·1	...	...	8	2	2	...	1	7	3	4	...	10	280·1	16·7	14·7	...	13·8	35·2	17·5	32·6	...	145·0
Purneah ...	Purneah	...	8	6	...	...	...	45·3	55·1	...	...	1	1	1	1	1	4	1	2	1	1	183·7	43·0	32·9	45·5	53 3	63·3	18·2	56·1	55·5	64·4
Poori ...	Poori	...	43	...	...	...	...	91·1	...	...	...	1	1	3	2	2	8	8	4	8	6	171·6	28·9	69 6	55·4	55·9	78 7	102·6	46·9	186·5	172 8
	TOTAL ...	1	450	165	...	...	7·5	30·9	29·1	...	...	100	58	38	22	18	72	75	62	68	111	204·9	32·5	17·9	11 9	11 6	17·7	22·3	25·7	40 3	87·8

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 6th January 1890

W. H. GREGG, *Dip. Publ. Health, Camb.*,

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 4th January 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 4th January 1890.			Week ending Saturday, the 5th January 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	2,090	2,70,433	4,613	1,670	2,91,865	5,181
Jute	268	2,49,550	2,914	143	74,625	1,335
Firewood	102	51,795	763	151	79,020	1,173
Other articles	977	2,32,255	3,673	1,353	2,71,610	4,004
Total ...	3,437	8,04,033	21,963	3,317	7,17,120	11963

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 21st December 1889, *on 747 miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-mile run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	137,080	73,660 0 0	6,25,330 0	1,74,300 0 0	14,730 0 0	2,62,690 0 0	21,689	35,300	56,989
Or per mile of railway ...	183	99 0 0	837 0	233 0 0	†3 0 0	335 0 0	.....	.....	.....
For previous 24 weeks of half-year	*3,456,348	15 89,803 0 0	*1,53,21,426 0	38,72,874 0 0	4,17,567 0 0	*58,73,244 0 0	531,086	710,791	1,241,877
Total for 25 weeks ..	3,593,408	16,56,463 0 0	1,59,46,756 0	40,47,174 0 0	4,32,297 0 0	61,35,934 0 0	552,766	746,091	1,298,857
Comparison.									
Total for corresponding week of previous year	121,027	63,751 0 0	6,08,902 0	1,74,741 0 0	17,248 0 0	2,55,740 0 0	21,374	33,678	55,052
Per mile of railway corresponding period of previous year ...	180	95 0 0	905 0	260 0 0	†4 0 0	359 0 0	.....	.....	.....
Total to corresponding date of previous year	3,404,474	15,42,237 0 0	1,53,72,275 0	39,63,980 0 0	4,20,977 0 0	59,27,174 0 0	518,292	767,547	1,285,839

* Audited up to week ending 9th November 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,55,740	380	747	2,62,690	352	673	78,32,646	287	722	*82,71,375	303	3,88,729	...

* Audited up to week ending 9th November 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 21st December 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,060	11,160 0 0	30,470 0	2,600 0 0	110 0 0	13,870 0 0	3,606	2,066	5,672
Or per mile of railway	200	89 0 0	244 0	21 0 0	1 0 0	111 0 0	...	...	.....
For previous 24 weeks of half-year	*664,817	2,32,622 0 0	*13,92,092 0	1,22,151 0 0	5,362 0 0	*3,00,135 0 0	86,067	54,372	140,439
Total for 25 weeks ...	689,877	2,43,782 0 0	13,22,562 0	1,24,751 0 0	5,472 0 0	3,74,005 0 0	89,693	56,438	146,131
Comparison.									
Total for corresponding week of previous year ...	23,974	9,698 0 0	42 206 0	2,670 0 0	62 0 0	12,330 0 0	3,606	2,066	5,672
Per mile of railway corresponding period of previous year ...	192	78 0 0	338 0	21 0 0	..	99 0 0	... .	.....	.. ...
Total to corresponding date of previous year	660,205	2,22,582 0 0	14,43,211 0	1,40,695 0 0	1,908 0 0	3,65,185 0 0	90,318	61,781	152,099

* Audited up to week ending 9th November 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,330	99	125	13,870	111	125	5,26,987	111	125	*5,55,853	117	28,866	...

* Audited up to week ending 9th November 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 21st December 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,100	5,670 0 0	47,620 0	4,610 0 0	360 0 0	10,640 0 0	2,547	2,281	4,828
Or per mile of railway ...	165	65 0 0	554 0	54 0 0	4 0 0	123 0 0	.....	.....	.....
For previous 24 weeks of half-year	*371,203	1,21,065 0 0	*6,92,070 0	58,837 0 0	5,436 0 0	*1,85,338 0 0	60,123	20,137	80,260
Total for 25 weeks ...	385,483	1,26,035 0 0	7,39,690 0	63,447 0 0	5,796 0 0	1,95,978 0 0	62,670	22,418	85,088
Comparison.									
Total for corresponding week of previous year	14,360	4,990 0 0	15,861 0	1,784 0 0	180 0 0	6,960 0 0	2,510	594	3,104
Per mile of railway corresponding period of previous year	173	58 0 0	184 0	21 0 0	2 0 0	81 0 0	.....	.....	.....
Total to corresponding date of previous year	355,125	1,12,792 0 0	3,77,013 0	30,731 0 0	4,735 0 0	1,48,256 0 0	62,704	16,338	79,102

* Audited up to week ending 14th November 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,960	81	86	10,640	123	86	2,13,247	65	86	*2,71,045	83	57,798	.....

* Audited up to week ending 9th November 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st December 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,048	1,065 0 0	20,200 0	996 0 0	18 0 0	2,079 0 0	509	254	763
Or per mile of railway	112	39 0 0	741 0	36 0 0	1 0 0	76 0 0	.....	.....	.....
For previous 23 weeks of half-year	76,161	27,375 0 0	2,16,088 0	13,953 0 0	1,547 0 0	42,875 0 0	12,143	9,892	22,035
Total for 24 weeks ...	79,209	28,440 0 0	2,36,288 0	14,949 0 0	1,565 0 0	44,954 0 0	12,652	10,146	22,798
Comparison.									
Total for corresponding week of previous year	2,770	1,106 0 0	15,296 0	843 0 0	6 0 0	1,954 0 0	509	472	981
Per mile of railway corresponding week of previous year ...	102	41 0 0	561 0	31 0 0	.....	72 0 0	.....	.....	.....
Total to corresponding date of previous year	75,709	27,086 0 0	2,91,339 0	17,145 0 0	2,080 0 0	46,317 0 0	12,725	10,970	23,795

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,954	72	27½	2,079	76	27½	72,745	72	27½	70,773	70	.....	1,972

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st December 1889, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	39,065	17,196 0 0	1,90,906 0	20,928 0 0	4,998 0 0	43,124 0 0	6,373	5,529	11,902
Or per mile of railway	145	63 0 0	699 0	77 0 0	3 0 0	143 0 0*	.....	..	... ..
For previous 23 weeks of half-year	962,988	3,52,030 0 0	40,58,067 0	4,07,534 0 0	90,631 0 0	8,50,195 0 0	127,674	128,862	256,536
Total for 24 weeks ...	1,002,673	3,69,228 0 0	42,48,973 0	4,28,462 0 0	95,629 0 0	8,93,319 0 0	134,047	134,411	268,458
Comparison.									
Total for corresponding week of previous year	36,121	16,446 0 0	1,30,916 0	14,972 0 0	3,004 0 0	35,022 0 0	5,290	5,391	10,690
Per mile of railway corresponding week of previous year ...	132	60 0 0	480 0	55 0 0	1 0 0	116 0 0*	.....	.....	.....
Total to corresponding date of previous year	968,728	3,36,568 0 0	32,09,767 0	2,94,075 0 0	75,862 0 0	7,06,505 0 0	129,783	127,760	257,543

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 22nd December 1888.			Receipts for week ending 21st December 1889.			Total receipts from 1st April 1888 to 22nd December 1888.			Total receipts from 1st April 1889 to 21st December 1889.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	35,022	128	273	43 124	158	263'37	12,04,145	124	273	14,17,678	140	2,13,533	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs
Approximate earnings for week ending 14th December 1889	8,195
Corresponding week last year	12,291
Decrease	4,096
Receipts from 1st July to 14th December 1889	2,62,051
From 1st July to 15th December 1888	2,85,932
Decrease	23,881

Compared with 1887, there is an increase of Rs. 23,112 for the corresponding period

	Miles
Miles open week ending 14th December 1889	51
Corresponding week last year	51

	Rs	A.	P.
Receipts per mile open week ending 14th December 1889 ...	160	11	0
Corresponding week last year	241	0	0
Decrease	80	5	0

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers Buildings in the City of Calcutta, 8th January 1890.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 21st	40	12mo dy	1st ...	1,000	Printed	0 2 0	Matindra Náth Mukharji.	This appears to be written in reply to a dramatic work entitled *Dádá O Ami* noticed in the previous catalogue. The present work is designed to hold up to ridicule the Anglicised Bengali gentlemen returned from England.	8506
Mar., 24th	300	12mo dy	1st ...	1,000	ditto ..	1 0 0	Jogendra Náth De, Cossipore Ghát Road.	A translation of Reynolds' work entitled "The Soldier's Wife."	8507
April, 22nd	240	12mo dy	3rd ..	1,000	ditto ...	1 8 0	Bankim Chandra Chatterji, 5, Pratap Chatterji's Lane, Calcutta.	A well-known work ...	8508
Mar., 24th	184	8vo dy	1st ...	1,000	ditto ...	1 0 0	Sarat Chandra Deva Sharmá.	A translation of the Turkish Tales.	8509
April, 26th	202	32mo rl	1st ...	1,000	ditto ...	0 8 0	Kalidas Lahiri, 58, College Street, Calcutta.	The story of Trailokya, a prostitute of Calcutta, who murdered another prostitute living in the same house with her and was sentenced to death by Mr. Justice Norris	8510
Feb., 27th	116	12mo dy	1st ...	500	ditto ..	0 8 0	Sarat Chandra Deb, Calcutta.	This is the third part of a series of stories. The first two parts being, as the author says, the *Hiranmayi* and the *Kiranmayi* works, which appeared some years ago. It is a story of the happy union of the different members of the Royal Family of Amarapattana, after long separation and after the loss of their kingdom, at Pushkara, a place of pilgrimage in Rajputana.	8511
„ 26th	188	12mo dy	1st ...	500	ditto ...	0 10 0	Rajkrishna Ráya	This is the fourth part of the same series. The story is that of a dacoit of the Robin Hood type. Ratneswar Sinha Ráya, being deprived of his share of a rich patrimony, becomes the head of a band of dacoits. He robs rich people and supports the poor. When strong enough, he regains his inheritance and makes it over to his daughter.	8512
Mar., 23rd	381	8vo ...	1st ...	500	ditto ...	4 12 0	R. L. Biswás, Bagbazar.	A series of stories from a variety of sources. This part contains Persian tales and the story of Nagendra Nandini.	8513
„ 23rd	268	8vo ...	1st ...	500	ditto ...	2 4 0	ditto ...	Contains Nagendra Nandini and Ascharya Guptakathá.	8514
„ 23rd	512	8vo ...	1st ...	500	ditto ...	4 12 0	ditto ...	The Arabian Nights' Entertainments.	8515
May, 16th	217	12mo dy	1st ...	1,000	ditto ...	1 8 0	Haridas Bhattácharyya, Calcutta.	Basanta Kumar is not the most important character in the work though the writer has chosen to name the book after him. It gives a faithful picture of native family life in its various phases, and deals impartial poetical justice to all the characters concerned. The object of the work is to describe how goodness triumphs over wickedness.	8516
April, 25th	72	16mo dy	New...	1,000	ditto ...	0 4 0	Biharilál Das, Calcutta.	Indranáth goes to a mofussil village for the purpose of collecting subscriptions to help Babu Surendra Nath Banerji in his appeal against the sentence of imprisonment passed on him by the High Court. There he sees Saralá, and they fall in love. Indranath's father does not agree to the match, and Saralá is married to another. Saralá feels very miserable, but determines at last to devote herself to the service of her husband.	8517
„ 17th	24	12mo dy	New	1,000	ditto ...	0 6 0	Upendra Nath Mukharji.	Aimed at the female emancipation and widow remarriage movement. Gopal insists upon falls in love. He induces Gopal to take her to Calcutta, where the company of enlightened ladies, he said, would enable her simply to obtain an admission into the family; but the lady baffles Ganesh's intention. Ganesh then enters Gopal's room in who never liked his wife, beats her to death. Ganesh informs the police about the murder. Gopal beats Ganesh	8518
„ 26th	34	12mo dy	New	1,000	ditto ...	0 6 0	ditto ...	Aimed at the female emancipation movement. Kanai, an will not attend his father's sick-bed lest he be compelled to perform the same barbarous ceremony again. He sells his at Bankura. His immoral conduct there procures his expulsion from the *Samaj*. During his absence at Bankura dancing. She too is expelled from the *Samaj*. They live in misery, and in the course of time she commits suicide	8519

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	FICTION—*concluded.*					
8520	Meja Bau. The Second Daughter-in-law.	Bengali	Shiba Náth Shástri.	Fiction ..	Printed and published at 13, Cornwallis Street, Calcutta.	Printed and published by K. C. Datta.
8521	Kalpataru. The Desire-fulfilling Tree.	ditto ...	Indra Nath Banerji.	ditto ...	Printed and published at 34-1, Colootola Street, Calcutta.	Printed and published by Bihari Lal Sarkar.
8522	Hátim Tai. (A Name). (T.)	ditto ...	Bijaya Náth Mukharji.	ditto ...	Printed at 147, and published at 333, Upper Chitpore Road, Calcutta.	Printed by Umesh Chandra Pal, and published by Kánáilal Sil and Brothers.
8523	Dekhle Hási Páya. The sight provokes laughter.	ditto ...	Jadunath Bhattácháryya.	ditto ...	Printed at 54, Balaram De's Street, and published at 98-3, Chitpore Road, Calcutta.	Printed by Rákhál Chandra Das, and published by Ramkánái Das.
8524	Háya ki Holo! Alas! what is this?	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8525	Saroj Pratimá. The Image of the Lotus.	ditto ...	Rádhá Binod Haldar.	ditto ...	Printed at 61, Ahiritola Street, and published at 111, Upper Chitpore Road, Calcutta.	Printed by Mahendranath De, and published by S. S. Chandra.
8526	Tárátirtha. The Temple Dedicated to Tára's Memory.	ditto ...	Rádhánáth Mitra.	ditto ...	Printed at 147, Upper Chitpore Road, and published at 141, Old China Bazar, Calcutta.	Printed by Umesh Chandra Pal, and published by Amritalal Mukharji.
	before her marriage. The scandal of her birth was hushed up by Chandra Shekhar carrying the child a woman who eked out her livelihood by needle work. On her death she fell into the hands of some bad men shopkeeper. Her mother was married to the Rája of Kanchanpore. The excellence of her needle work attract- stepson was actuated by a very different feeling, and through his agency the poor girl was kidnapped and find out the place of her confinement, and at last with the help of a *sannyási* who afterwards proved to be open Tara was mortally wounded. At her father's request a temple was dedicated to her memory named Tara-					
	HISTORY (INCLUDING GEOGRAPHY).					
8527	Káyastha Káriká O Bansábali. History and Genealogy of the Káyasthas. Part III. Nos. 68 and 69.	ditto ...	Dina Bandhu Ghatak Ishan Chandra Ghatak, and Bijaya Krishna Ghatak.	History (including Geography).	Printed at 78, Amherst Street, and published at 65, Bagbazar Street, Calcutta.	Printed by Kalicharan Das, and published by the Kayastha Kula Sanrakshini Sabha.
8528	Rajábali. The Line of Rajás. (R.)	ditto ...	Mrityunjaya Sharmá.	ditto ...	Printed at 34, and published at 52, Rajballabh's Street, Calcutta.	Printed by Nabakumar Bose, and published by Biharilal Chatterji.
	The following works are designed for educational purposes.					
8529	Bangadesh O Asamer Samkshipta Bibaran. A short account of Bengal and Assam.	ditto ...	Dinanath Sen	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at Gendaria, Dacca.	Printed by Jadu Náth Sil, and published by Girish Chandra Sen.
8530	Pratham Shikshá Bhugol. First Geography for Children.	ditto ...	Chandrakánta Ganguli.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Jadu Náth Sil, and published by the Sanskrit Press Depository.
8531	Bharat Barsher Itihás. History of British India.	ditto ...	Krishna Chandra Ráya.	ditto ...	Printed at 44, Amherst Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Biharilál Banerji, and published by the Sanskrit Press Depository.
8532	Shishu Ranjan Bharat Itihás. History of India for the entertainment of boys.	ditto ...	Dámodar Mukharji, M.R.A.S.	ditto ...	Printed and published at 6, Balaram De's Street, Calcutta.	Printed and published by H. M. Mukharji and Co.

Quarter ending 30th June 1889—continued.

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BOOKS - continued.									
1889.	Pages.					Rs. A. P.			
April, 23rd	86	8vo dy	6th ...	1,000	Printed	0 10 0	Shiba Náth Shástri.	A well-known work	8520
Mar., 28th	191	12mo dy	3rd ...	900	ditto ..	0 12 0	Jogendra Chandra Bose, 34-1, Colootola Street, Calcutta.	A well-known work of humour ...	8521
„ 5th	280	8vo dy	2nd ...	1,200	ditto ..	0 8 0	Surya Kumar Mukharji, 21, Sankar Haldar's Lane, Calcutta.	A well-known Persian tale. In making the translation the writer has consulted the Urdu, the Bengali, and the Musalmani-Bengali versions of the story.	8522
May, 12th	24	12mo dy	4th ...	1,000	ditto ...	0 2 0	Ramkánái Das ..	A humorous story. One of the Folk tales of Bengal.	8523
„ 16th	23	12mo dy	Revised	1,000	ditto ..	0 2 0	ditto ...	ditto ditto ...	8524
Mar., 25th	197	12mo dy	1st ...	1,000	ditto ...	1 10 0	S. S. Chandra, 111 Upper Chitpore Road, Calcutta	A story of love and adventure, the materials of which have been collected from the Folk tales of Bengal, the annals of Rajputana, the stories of the Betalpanchisi, and so on.	8525
April, 12th	328	12mo dy	1st ..	1,000	ditto ...	1 8 0	Suryya Kumar Mukharji, 21, Sunkar Haldar's Lane, Calcutta.	Tárá was the illegitimate daughter of Chandra Shekhar, the Minister of Subarnapore, by the Princess of that place	8526

to his mother, and himself renouncing the world. The old lady died by an accident, and Tara was taken care of by who took her to Kanchanpore, where she left their vicious company and lived under the protection of a virtuous old ed the attention of the Ráni, who sent for her, and at once conceived a great affection for her. But the Rani's kept in the custody of a prostitute. The Rajá was greatly enraged at this act of violence, and spared no pains to Tara's father, the prostitute's house was surrounded. In the scuffle that ensued at the time when the door was broken tirtha with the image of Tara enshrined in it.

Mar., 14th	48	4to rl	1st ..	500	ditto ...	0 8 0	Kayastha Kula Sanrakshini Sabhá, 65, Bagbazar Street, Calcutta.	The usual contents	8527
.....	171	8vo dy	5th ...	.....	ditto ...	1 0 0	.....	This is one of the first Bengali works in prose. It was published in 1810 for the use of the students of the Fort William College	8528
April, 28th	72	12mo dy	4th ...	5,000	ditto ..	0 6 0	Dinanath Sen, Dacca.	A well-known school book ..	8529
Mar., 26th	32	12mo dy	15th..	5,000	ditto ...	0 1 6	Rai Radhikaprasanna Mukharji Báhádur, 30, Bechu Chatterji's Street, Calcutta.	.....	8530
„ 23rd	255	12mo ...	25th..	3,000	ditto ..	0 12 0	Krishna Chandra Ráyá, 36, Amherst Street, Calcutta,	A well-known school book ..	8531
April, 20th	138	16mo rl	4th ...	2,000	ditto ...	0 4 0	Nabadwip Chandra Ráya, 5, Ashutosh Deb's Lane, Calcutta	.....	8532

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	HISTORY (INCLUDING GEOGRAPHY)—*concld.*					BENGALI
8533	Mána Chitra Shikshá. Map-pointing	Bengali	Kishori Mohan Básu.	History (including Geography.)	Printed and published at the Syamantaka Press, Dacca.	Printed and published by Gopináth Basák.
8534	Pratham Bhág Bangálá Itiháser Prashnottara A Catechism of the History of Bengal Part I.	ditto ..	Kunja Bihari Banikya.	ditto ...	Printed and published at the Dacca Girish Press.	Printed by Munshi Kalimuddin and published by Kunja Bihari Banikya
8535	Purábritta Sárer Prashnottara. A Catechism of Purábritta Sára.	ditto ...	Abalá Kánta Sen	ditto ...	Printed and published at 66, Beadon Street, Calcutta.	Printed and published by Chandi Charan Ráya.
8536	Pratham Shikshá Bangálá Itiháser Prashnottara. A Catechism of the History of Bengal.	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
	LANGUAGE.					
	The following works are designed for educational purposes.					
8537	Barnaparichaya. An Alphabetical Primer. Part. I.	ditto ...	Ishwara Chandra Bidyáságara.	Language	Printed at 62, Amherst Street, and published at 25, Sukea's Street, Calcutta.	Printed by Jajneswar Mukharji, and published by the Calcutta Library.
8538	Ditto ditto. Part II.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8539	Bodhodaya. Rudiments of Knowledge.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8540	Akhyána Manjarí. A Collection of Anecdotes. Part II.	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
8541	Ditto ditto Part III.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8542	Jíban Charit. Biography.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8543	Shishu Shikshá. The Infant Instructor. Part III.	ditto ...	Madan Mohan Tarkálankára.	ditto ...	ditto ditto ...	ditto ditto ...
8544	Ditto ditto. Part III.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8545	Barnajnán. Knowledge of Letters.	ditto ...	Bhabání Kánta Bhattáchárryya.	ditto ..	Printed and published at Serajgunj.	Printed by Mohini Mohan Sen, and published by Bhabáni Kanta Bhattácháryya.
8546	Kabitá Kusumer Artha A Key to Kabitá Kusum.	ditto ...	Umacharan Banerji.	ditto ...	ditto ditto ...	ditto ditto ...
8547	Bangíya Sabda Sár. A Bengali Dictionary.	ditto ...	Abalákánta Sen	ditto ...	Printed and published at 66, Beadon Street, Calcutta.	Printed and published by Chandi Charan Ráya.
8548	Padyasárer Sárthak Anwaya O Byákhyá. A key to Padyasára.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8549	Sáhitya Kusumer Sucháru Byákhyá. A key to Sáhitya Kusum.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8550	Prabandha Málár Sucháru Byákhyá. A key to Prabandhamálá.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8551	Rámcharitor Sucháru Byákhyá. A key to Rámcharit.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8552	Padyapáth Dwitíya Bhager Sárthak Anwaya Byákhyá O Padaparichaya. A key to Padyapáth. Part II.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P			
April, 10th	46	12mo ...	1st ..	1,000	Printed	0 2 0	.....	A work on map-pointing designed for the use of students of the vernacular schools.	8533
May, 24th	72	12mo ..	1st ..	1,000	ditto ..	0 4 0	.....	A catechism of the elementary history of Bengal by the late Babu Rajkrishna Mukharji, M A.	8534
Mar, 6th	142	12mo rl	3rd ...	1,000	ditto ..	0 8 0	Abalá Kánta Sen, 50, Baranasi Ghosh's Street, Calcutta.	.....	8535
Feb., 28th	68	12mo rl	2nd ..	2,000	ditto	0 4 0	ditto ..	A catechism of the elementary history of Bengal by the late Babu Rajkrishna Mukharji, M.A.	8536
Mar., 30th	38	12mo ..	148th	50,000	ditto ...	0 1 0	Ishwara Chandra Bidyaságara. 25, Brindaban Mallik's Lane, Calcutta.	An alphabetical primer of long standing.	8537
May, 13th	43	12mo ..	137th	30,000	ditto ..	0 1 3	ditto .	ditto ditto ..	88 8
April, 11th	84	12mo ..	104th	30,000	ditto ...	0 3 0	ditto	A well-known school book ..	8539
„ 8th	131	12mo ..	3rd ...	5,000	ditto ..	0 6 0	ditto ...	The first part of the work has been, with some additions, divided into two parts, and this is the second part	8540
„ 26th	180	12mo ...	18th..	5,000	ditto ...	0 8 0	ditto ...	The second part of the work has been styled the third part.	8541
Mar., 28th	144	12mo ..	14th...	5,000	ditto ...	0 8 0	ditto .	A well-known school book ...	8542
„ 27th	51	12mo ...	102nd	25,000	ditto ..	0 2 0	ditto ...	ditto ditto ...	8543
May, 17th	51	12mo ...	103rd	25,000	ditto ..	0 2 0	ditto ...	ditto ditto ..	8544
April, 16th	8	12mo ..	1st ...	1,000	ditto ...	0 0 3	.....	An alphabetical primer ..	8545
May, 1st	8	8vo ..	1st ...	1,000	ditto ..	0 2 0	.....	A key .	8546
Mar., 12th	343	12mo dy	2nd .	2,000	ditto ...	0 12 0	Abalákánta Sen, 50, Báránasi Ghosh's street, Calcutta.	Noticed	8547
Feb. 25th	82	12mo dy	1st ..	1,000	ditto ...	0 4 0	ditto ..	A key	8548
„ 22nd	230	12mo rl	1st ...	1,500	ditto ...	0 12 0	ditto ..	ditto .	8549
„ 21st	192	12mo rl	1st ..	1,000	ditto ..	0 8 0	ditto ..	ditto ..	8550
„ 23rd	94	12mo ...	1st ...	1,000	ditto ...	0 8 0	ditto ...	ditto ..	8551
„ 23rd	108	12mo rl	2nd	1,000	ditto ...	0 6 0	ditto ...	ditto ..	8552

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	LANGUAGE—*contd.*					
8553	Padyapáth Tritíya Bhág-er Sárthak Anwaya Byákhyá O Padapari-chaya. A key to Pad-yapáth. Part III.	Bengali.	Abalákánta Sen.	Language.	Printed and published at 66, Beadon Street, Cal-cutta.	Printed and published by Chandi Charan Raya.
8554	Kabitáhár Pratham Bhág-er Sárthak Anwaya O Byákhyá. A key to Kabitáhár. Part I.	ditto ...	ditto ...	ditto ...	dto ditto ...	ditto ditto ...
8555	Kabigáthár Sárthák An-waya Byákhyá O Pa-daparichaya. A key to Kabigáthá.	ditto ...	ditto ...	ditto ...	dito ditto ...	ditto ditto ...
8556	Rámbanabáser Sucháru Byákhyá. A key to Rambanabás.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8557	Bodhodayer Sárthak Prasnottara. A key to, and a Catechism of, Bodhodaya.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
8558	Sáhitya Shikshár Sucha-ru Byákhyá. A key to Sáhitya Shikshá.	ditto .	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8559	Chárú Bodh. Entertaining knowledge. Part I.	ditto ...	Shashibhusan Chatterji.	ditto ...	Printed and published at 8, Dixon's Lane, Cal-cutta.	Printed and published by B. L. Chakrabarti.
8560	Bálya Shikshá. Infant Instructor.	ditto ...	Ramsundar Basak.	ditto ...	ditto ditto ...	ditto ditto ...
8561	Chárubodh Prakáshiká. A key to Chárubodh.	ditto ...	Kshetra Mohan Sen Gupta.	ditto ...	ditto ditto ...	ditto ditto ...
8562	Subjects of Examination in the Bengali language appointed by the Senate of the Calcutta Univer-sity for the Entrance Examination of 1880.	ditto ...	Nilmani Mu-kherji, M.A.	ditto ...	ditto ditto ...	ditto ditto ...
8563	Nítipáthártha. A key to Nítipáth.	ditto ...	Umácharan Banerji.	ditto ...	Printed at 338, Upper Chitpore Road, Calcutta, and published at Seraj-ganj, Maniharipati.	Printed by Binod Bihari Sil, and published by Umácharan Banerji.
8564	Shikshásopán Tritíya-bhágártha. A key to Shikshá Sopan. Part III.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8565	Páth Málártha. A key to Pathmálá.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8566	Prathambhág Páthamá-lartha. A key to Pátha-málá. Part II.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8567	Shishu Bodhak. The Infant Instructor.	ditto ...	.....	ditto ...	Printed at 333, and pub-lished at 188, Upper Chitpore Road, Calcutta.	Printed and published by Binod Bihari Sil.
8568	Bodhodayer Artha Pus-taka. A key to Bodho-daya.	ditto ...	Krishnadhan Bidyápati.	ditto ...	Printed and published at 117, Chipore Road, Cal-cutta.	Printed and published by Trailokya Náth Datta.
8569	Tritíya Bhág Shishu Shikshar Artbapustak. A key to Shishu Shiksha. Part III	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8570	Shishu Bodhak. The Infant Instructor.	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
8571	Ditto ditto ...	ditto ...	.....	ditto ...	Printed at 64, Balarám De's Street, and publish-ed at 98-3, Chitpore Road, Calcutta.	Printed by Rakhal Chan-dra Das, and published by Rámkánái Das.
8572	Nitípatha Bibodhiní. A key to Nitípatha.	ditto ...	Bishnukishor Chakrabarti.	ditto ...	Printed and published at 100, Bowbazar Street, Calcutta.	Printed and published by B. C. Sarkar.
8573	Priyapáth. A Beloved Reader.	ditto ...	Lalit Chandra Mazumdar.	ditto ..	Printed and published at 2, Benetola Lane, Cal-cutta.	Printed and published by Natabar Chakrabartí.

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar., 18th	320	12mo rl	3rd ..	2,000	Printed.	0 12 0	Abalákánta Sen, 50, Baranasi Ghosh's Street, Calcutta.	A key	8553
Feb., 25th	110	12mo rl	1st ...	1,000	ditto ...	0 6 0	ditto ...	ditto ...	8554
,, 23rd	230	12mo rl	1st ...	1,000	ditto ..	0 12 0	ditto ...	ditto ...	8555
,, 22nd	199	12mo rl	2nd ..	1,000	ditto ...	0 12 0	ditto ...	ditto ...	8556
Mar., 5th	41	12mo rl	1st ..	1,000	ditto .	0 2 0	ditto ...	ditto ...	8557
Feb., 28th	227	12mo rl	1st ..	1,000	ditto ..	0 12 0	ditto ...	ditto ...	8558
Mar., 19th	124	12mo ..	17th..	5,000	ditto ...	0 5 0	Shashibhusan Chatterji, Calcutta.	A well-known school-book ...	8559
,, 20th	58	12mo ..	42nd	20,000	ditto ...	0 1 6	Ramsundar Basak, Dacca.	ditto ditto ..	8560
,, 24th	87	12mo ...	1st ...	1,000	ditto ...	0 3 0	Kshetra Mohan Sen Gupta, Calcutta	A key	8561
,, 22nd	154	8vo ...	1st ...	1,600	ditto ...	1 8 0	Nilmani Mukharji, Calcutta.	Selected from a large number of standard Bengali works in prose and poetry.	8562
May, 19th	26	12mo rl	New .	1,000	ditto ..	0 4 0	Umácharan Banerji, Serajganj.	A key	8563
April, 22nd	26	8vo rl	New ..	1,000	ditto .	0 3 0	ditto ...	ditto ...	8564
,, 18th	13	8vo ..	New ..	1,000	ditto ..	0 3 0	ditto ...	This is a key to the second part of the work.	8565
,, 14th	9	8vo dy	New...	1,000	ditto ...	0 2 0	ditto ...	A key	8566
May, 7th	103	12mo dy	11th...	1,000	ditto ...	0 4 0	.....	An old-fashioned primer ...	8567
,, 4th	12	12mo rl	New	3,000	ditto ...	0 3 0	Trailokya Nath Datta, Calcutta.	A key	8568
,, 2nd	12	12mo rl	1st ...	3,000	ditto ...	0 2 0	ditto ...	ditto ...	8569
April, 21st	120	12mo dy	Revised.	3,000	ditto ...	0 4 0	.....	An old-fashioned primer ...	8570
,, 22nd	126	12mo dy	ditto	2,000	ditto ...	0 3 0	.....	ditto ditto ...	8571
May, 11th	78	12mo dy	1st ...	500	ditto ...	0 4 0	BishnukishorChakrabarti, Khamarpara, Barasat.	A key	8572
April, 4th	53	12mo dy	8th ...	2,000	ditto ...	0 3 0	Lalit Chandra Mazumdar, Sakráil.	A school-book	8573

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	LANGUAGE—*contd.*					
8574	Pratham Charitáshtaka The Eight Characters. Part I.	Bengali	Kálimaya Ghatak.	Language	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Jadu Náth Sil, and published by the Sanskrit Press Depository.
8575	Prathampáth. The First Reader.	ditto ...	Satkari Datta	ditto ...	ditto ditto ...	ditto ditto ...
8576	Bangálá Byákaran Prabeshiká. An Introduction to Bengali Grammar.	ditto ...	Jagadbandhu Modak.	ditto ...	ditto ditto ...	ditto ditto ...
8577	Sáhitya Prabesh. An Introduction to Literature.	ditto ..	Prasanna Chandra Bidyáratna.	ditto ..	Printed at 23-1, Bechu Chatterji's Street, Calcutta, and published at the Students' Library, Dacca.	Printed by Jadu Náth Sil, and published by the Students' Library, Dacca.
8578	Námamálá. A Garland of Names.	ditto ...	Madhu Sudan Bhattácháryya.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at Raghunáthganj, Moorshedabad.	Printed by Jadu Náth Sil, and published by Madhusudan Bhattácháryya.
8579	Shikshá Sopán. Step by Step in Learning.	ditto ...	Akrur Chandra Sen.	ditto ...	Printed and published at the Adarsha Press, Armanitola, Dacca.	Printed and published by Lachhman Basak.
8580	Ditto ditto ...	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8581	Sáhitya Páth. Literary Reading.	ditto ...	Manmohan Ráya.	ditto ...	ditto ditto ...	ditto ditto ...
8582	Saral Byákaran. Easy Grammar.	ditto ...	Suryya Kumar Ráya.	ditto ...	ditto ditto ...	ditto ditto ...
8583	Tritíya Bhág Akhyán Manjarí Bodhiní. A Key to Akhyán Manjari. Part III.	ditto ...	Matilal Chakrabarti.	ditto ...	ditto ditto ...	Printed by Lachhman Basák, and published by Jogesh Chandra Chakrabarti.
8584	Jíbanamaya Kábya Bodhiní. A key to the work entitled Jibanamaya Kábya.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8585	Shishu Kaumudi. The Moonshine for Boys.	ditto ...	Umákánta Rakshit.	ditto ...	Printed and published at Mymensingh.	Printed and published by Umakánta Rakshit.
8586	Akhyán Manjari Tritíya Bháger Byákhyá. A key to Akhyán Manjari. Part III.	ditto ...	Hara Kumár Banerji.	ditto ...	ditto ditto ...	Printed by Umakánta Rakshit, and published by Mánik Chandra Bhaumik.
8587	Bodhodayer Artha O Byákhyá. A key to Bodhodaya.	ditto ...	Akshaya Kumar Chatterji.	ditto ...	Printed and published at Barisal.	Printed by Hara Kumar Kar, and published by Akshaya Kumar Chatterji.
8588	Kabitábalí Prabodhiká A key to Kabitábali.	ditto ...	Jánakí Náth Pál.	ditto ..	Printed and published at the Girish Press, Dacca.	Printed and published by Kalimuddin.
8589	Priyapátha Prabodhiká A key to Priyapátha.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8590	Saralpátha Prabodhiká A key to Saral Páth.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8591	Priyapather Bishada Byákhyá. A key to Priyapáth.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8592	Komalkabitá Prabodhiká A key to Komalkabita.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8593	Akhyán Manjari Prabodhiká. A key to Akhyán Manjari.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8594	Priyapáth Bibriti. A key to Priyapáth.	ditto ...	Rám Chandra Chakrabarti.	ditto ..	ditto ditto ...	Printed by Kalimuddin, and published by the Dacca Students' Library.
8595	Bodhodaya Sikshá. A key to Bodhodaya.	ditto ...	Dinabandhu Basak.	ditto ...	ditto ditto ...	Printed by Kalimuddin, and published by Dinabandhu Basak.
8596	Prathambhág Akhyán Manjarír Shabdártha. A key to Akhyán Manjarí. Part I.	ditto ...	Kunjabihari Banikya.	ditto ...	ditto ditto ...	Printed by Kalimuddin, and published by Kunjabihari Banikya.
8597	Kathámálár Byákhyá Saha Artha Pustaka. A key to Kathámálá.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 10th	174	12mo dy	8th ...	2,000	Printed	0 8 0	Kálímaya Ghatak, Ranaghat, Nadia.	A school-book ...	8574
„ 10th	32	12mo dy	31st ...	10,000	ditto ...	0 1 0	Satkari Datta, Calcutta.	ditto ...	8575
„ 7th	54	12mo dy	7th ...	2,000	ditto ...	0 2 0	Jagadbandhu Modak, Gobardanga.	ditto ...	8576
May, 2nd	260	12mo dy	23rd...	2,000	ditto ...	0 12 0	Prasanna Chandra Bidyáratna, Dacca.	ditto ...	8577
April, 10th	20	12mo dy	2nd ...	3,000	ditto ...	0 1 0	Madhu Súdan Bhattácháryya, Raghunathganj, Moorshedabad.	An alphabetical primer on a new plan. The letters are to be learnt by learning the mode of writing names.	8578
„ 6th	38	12mo dy	15th .	2,000	ditto ...	0 2 0	.....	A well-known school-book ...	8579
April, 12th	92	12mo dy	2nd ...	1,000	ditto ...	0 6 0	.....	ditto ditto ...	8580
May, 31st	33	12mo ...	16th...	2,000	ditto ...	0 2 0	.....	ditto ditto ...	8581
„ 15th	92	12mo ...	11th...	1,000	ditto ...	0 4 0	.....	ditto ditto ...	8582
„ 7th	108	12mo ...	1st ...	1,000	ditto ...	0 10 0	.....	A key ...	8583
April, 6th	120	12mo ...	1st ...	1,000	ditto ...	0 12 0	.....	ditto ...	8584
„ 4th	44	12mo dy	2nd...	800	ditto ...	0 3 0	Umákánta Rakshit, Nasirabad.	Follows the plan of Sanskrit works on Grammar.	8585
Mar., 30th	46	8vo dy	1st ...	2,000	ditto ...	0 6 0	Harakumár Banerji, Hasipur, Mymensingh.	A key ...	8586
April, 13th	42	10×6 ...	1st ...	1,000	ditto ...	0 3 0	.....	ditto ...	8587
„ 21st	18	12mo ...	1st ...	1,000	ditto ...	0 2 0	.....	ditto ...	8588
„ 19th	28	12mo ...	3rd ...	1,000	ditto ...	0 3 0	.....	ditto ...	8589
„ 9th	18	12mo ...	1st ...	1,000	ditto ...	0 3 0	.....	ditto ...	8590
„ 24th	119	12mo ...	3rd ...	1,000	ditto ...	0 10 0	.....	ditto ...	8591
„ 25th	30	12mo ...	1st ...	1,000	ditto ...	0 3 0	.....	ditto ...	8592
„ 30th	40	12mo ...	3rd ...	1,000	ditto ...	0 4 0	.....	ditto ...	8593
„ 30th	108	12mo ...	1st ...	1,000	ditto ...	0 10 0	.....	ditto ...	8594
„ 3rd	88	12mo ...	1st ...	1,000	ditto ...	0 5 0	.....	ditto ...	8595
May, 25th	45	12mo ...	1st ...	1,000	ditto ...	0 4 0	.....	ditto ...	8596
„ 30th	48	12mo ...	1st ...	1,000	ditto ...	0 4 0	.....	ditto ...	8597

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	LANGUAGE—*contd.*					
8598	Dwitíya Bhág Cháru Kabitár Bishada Byákhyá. A key to Cháru Kabitá. Part II.	Bengali	Gopi Mohan Datta.	Language	Printed and published at the Girish Press, Dacca.	Printed by Kalimuddin, and published by Gopi Mohan Datta.
8599	Shishu Prabesh. A Primer for Boys.	ditto ...	Prasanna Chandra Bidyáratna.	ditto ...	Printed and published at the Dacca East Bengal Press.	Printed by Nabin Chandra De, and published by the Students' Library, Dacca.
8600	Komal Kabitá Bodhini. A key to Komal Kabitá.	ditto ...	Satish Chandra Chakrabarti.	ditto ...	ditto dttto ...	Printed by Nabin Chandra De, and published by Satish Chandra Chakrabarti.
8601	Nítipáth Bikásh. A key to Nitipáth.	ditto ...	Dina Bandhu Basak.	ditto ...	ditto ditto ...	ditto ditto ...
8602	Priyapátha Bodhini. A key to Priyapátha.	ditto ...	Matilál Chakrabartí	ditto ...	ditto ditto ...	Printed by Nabin Chandra De, and published by Jogesh Chandra Chakrabarti.
8603	Bodhodaya Shikshá. A key to Bodhodaya.	ditto ...	Brajadás Bairagi.	ditto ...	Printed and published at the Dacca Press.	Printed by Digambar Das, and published by Braja Das Bairági.
8604	Akhyán Manjarí Dipika A key to Akhyan Manjari.	ditto ...	.....	ditto ...	Printed and published at the Dacca Oriental Press.	Printed and published by Ram Chandra Banik.
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8606	Nítipáth. Moral Reader	ditto ...	Rájendra Mohan Datta.	ditto ...	Printed and published at the Dacca Raghunath Press.	Printed and published by Nanda Kisor Basak.
8607	Komal Byákhyá. A key to Komal Kabitá.	ditto ...	Umesh Chandra Basu.	ditto ...	ditto ditto ...	ditto ditto ...
8608	Komal Kabita Bodhini A key to Komal Kabita.	ditto ...	Kunjabihari Náth.	ditto ...	ditto ditto ...	ditto ditto ...
8609	Shikshá Sopáner Saral Artha O Byákhyá. A key to Shikshá Sopan.	ditto ...	Brajendra Mohan Datta.	ditto ...	ditto ditto ...	ditto ditto ...
8610	Shikshá Sopán Prabodhika. A key to Shikshá Sopán.	ditto ...	Jánaki Nath Pál.	ditto ...	Printed and published at the Syamantak Press, Dacca.	Printed and published by Gopináth Basak.
8611	Padya Manjari Bodhini. A key to Padya Manjari.	ditto ...	Kunjabihari Nath.	ditto ...	ditto ditto ...	Printed and published by Gopinath Basak.
8612	Cháru Kabitá Dwitíya Bháger Bishada Byákhyá.	ditto ...	.....	ditto ...	ditto ditto ...	Printed by Gopináth Raya, and published by Kunjabihari Banik.
8613	Shishu Shikshá Tritíya Bháger Prashnottara O Prabodhini Byákhyá Saha Artha Pustaka. A Key to and Catechism of Shishu Shikshá. Part III.	ditto ...	Kunjabihari Shaha Banik.	ditto ...	ditto ditto ...	Printed by Gopináth Basak, and published by Jogesh Chandra Chakrabarti.
8614	Padyajyotih Bodhini. A key to Padyajyotih.	ditto ...	Rádhábállabh Chakrabarti.	ditto ...	ditto ditto ...	Printed by Gopináth Basak, and published by Jogesh Chandra Chakrabarti.
8615	Priyapátha Bikásh. A key to Priyapátha.	ditto ...	Akshaya Kumár Shíromani.	ditto ...	ditto ditto ...	Printed by Gopináth Basak, and published by the Dacca Students' Library.
8616	Padya Manjarir Bishada Artha. A key to Padya Manjari.	ditto ...	.....	ditto ...	ditto ditto ...	Printed by Gopináth Basak, and published by Kunjabihari Shaha Banik.
8617	Bodhodaya Bodh. A key to Bodhodaya.	ditto ...	Harendra Kumar Ghosh	ditto ...	ditto ditto ..	Printed and published by Gopinath Basák.
8618	Saral Kabitábalir Byákhyá Pustak. A key to Saral Kabitábali.	ditto ...	.....	ditto ...	Printed and published at the Pubna Nababibhákar Press.	Printed by Purnánanda Ráya, and published by the Pubna School Book Depository.

Quarter ending 30th June 1889—continued.

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„ 17th	42	12mo ...	3rd ...	1,000	ditto ...	0 5 0	.....	ditto ...	8601
May, 4th	159	12mo ...	2nd ...	1,000	ditto ...	0 12 0	.....	ditto ...	8602
„ 28th	96	12mo ...	5th ...	2,000	ditto ...	0 5 0	.....	ditto ...	8603
„ 2nd	144	12mo ...	1st ...	1,000	ditto ...	0 9 0	.....	ditto ...	8604
„ 5th	36	12mo ...	1st ...	1,000	ditto ...	0 4 0	.....	ditto ...	8605
„ 4th	65	12mo ...	6th ...	2,000	ditto ...	0 4 0	.....	A school-book ...	8606
April, 8th	37	12mo ...	1st ...	1,000	ditto ...	0 2 0	.....	A key ...	8607
„ 8th	24	12mo ...	1st ...	1,000	ditto ...	0 2 0	.....	ditto ...	8608
„ 29th	12	12mo ...	3rd ...	1,000	ditto ...	0 2 0	.....	ditto ...	8609
„ 28th	24	12mo ...	9th ...	2,000	ditto ...	0 2 0	.....	ditto ...	8610
Mar., 26th	14	12mo ..	1st ..	1,000	ditto ...	0 2 0	.....	ditto ...	8611
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Mar., 8th	44	12mo ...	7th ...	4,000	ditto ...	0 2 0	.....	ditto ...	8613
April, 20th	48	12mo ...	1st ...	1,000	ditto ...	0 6 0	.....	ditto ...	8614
„ 5th	108	12mo ...	1st ...	1,000	ditto ...	0 10 0	.....	ditto ...	8615
May, 15th	12	12mo ...	2nd ...	3,000	ditto ...	0 2 0	.....	ditto ...	8616
June, 9th	72	12mo ...	3rd ...	1,000	ditto ...	0 5 0	.....	ditto ...	8617
April, 18th	60	8vo ...	1st ...	1,000	ditto ...	0 4 0	Pubna School Book Depository.	ditto ...	8618

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	LANGUAGE—*contd.*					
8619	Kabitábali Chandriká. A key to Kabitábali.	Bengali	.....	Language	Printed and published at the Pubna Nababibhákar Press.	Printed by Purnánanda Raya, and published by Satish Chandra Chakrabarti.
8620	Chhátra Bandhu Byákaran. A Bengali Grammar for Children.	ditto ...	Jadunáth Bhattácháryya.	ditto ...	Printed and published at Narail.	Printed by Bishwambhar Biswas, and published by Jadunáth Bhattácháryya.
8621	Sukhapátha Bodh. A key to Sukhapáth.	ditto ...	Chandra Kumar Lahiri, Shashi Bhushan Chakrabarti.	ditto ...	Printed and published at Tangail.	Printed by Chandra Kumar Sarkár, and published by Shashi Bhushan Chakrabarti.
8622	Niti Byákhyá. A key to Niti Shikshá. Part I.	ditto ...	Shashi Bhúshan Das.	ditto ...	ditto ditto ..	Printed and published by Chandra Kumar Sarkár.
8623	Pátha Málá Dwitíya Bháger Prashnottara O Anwaya Saha Artha. A key to Páthamálá. Part II.	ditto ...	Binod Mohan Ráya.	ditto ...	Printed at the Bogra Roy Press, and published at Madlá.	Printed by Binod Bihari Banerji, and published by Binod Mohan Ráya.
8624	Akshara Parichaya. An Acquaintance with Letters. Part II.	ditto ...	Fateh Mandal	ditto ...	Printed and published at the Bogra Roy Press.	Printed by Binod Bihari Mandal, and published by Fateh Mandal.
8625	Shikshá Sopáner Artha. A key to Shikshá Sopan.	ditto ...	Krishna Kumar De.	ditto ..	Printed and published at Chittagong.	Printed by Jagat Chandra Dás, and published by Krishna Kumár De.
8626	Shishu Shikshá Tritíya Bháger Artha Pustak. A key to Shishu Shikshá. Part III.	ditto ...	Dinakánta Chakrabarti.	ditto ...	Printed and published at the Amar Press, Komulla.	Printed and published by Nilambar Datta.
8627	Barna Bodh. A Knowledge of the Alphabet Part II.	ditto ...	Rajanikánta Chatterji.	ditto ...	ditto ditto ...	ditto ditto ...
8628	Cháru Prabandha. Interesting Essays in Bengali.	ditto ...	Mathuránáth Barma.	ditto ...	Printed and published at 12-9, Goabagan Street, Calcutta.	Printed by Nibáran Chandra Bhattácháryya, and published by M. N. Barma.
8629	Pátha Málá Dwitíya Bháger Artha Pustak. A key to Pátha Málá. Part II.	ditto ...	Tarinkánta Mazumdar.	ditto ...	Printed and published at 13, Cornwallis Street, Calcutta.	Printed and published by Kártik Chandra Datta.
8630	Pátha Málá Pratham Bháger Artha Pustak. A key to Pátha Málá. Part I.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8631	Pátha Málá Pratham Bháger Artha Pustak. A key to Patha Málá. Part I.	ditto ...	Mukunda Lál Dás.	ditto ...	Printed at 13, Cornwallis Street, and published at Rádhánagar.	Printed by Kártik Chandra Datta, and published by Mukunda Lál Das.
8632	Dwitíya Bhág Akhyán Manjarir Artha Pustak. A key to Akhyán Manjari.	ditto ...	Suresh Chandra Mazumdar.	ditto ...	Printed at 22-2, Jhamapukur Lane, and published at 54-1, College Street, Calcutta.	Printed and published by Baradáprasád Mazumdar.
8633	Pratham Bhág Akhyán Manjarir Artha Pustak. A key to Akhyán Manjari. Part I.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8634	Dwitíya Bhág Cháru Bodher Artha Pustak A key to Cháru Bodh. Part II.	ditto ...	Mákhan Lál Chaudhuri.	ditto ...	ditto ditto ...	ditto ditto ...
8635	Dwitiya Bhág Akhyán Manjarir Artha Pustak. A key to Akhyan Manjari. Part II.	ditto ...	Suresh Chandra Mazumdar.	ditto ...	ditto ditto ...	ditto ditto ...
8636	Charitábalír Artha Pustak. A key to Charitabali.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8637	Abhisheka Darpan. A key to Ramer Rájyábhisheka.	ditto ...	Harilál Sháhá	ditto ...	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April 18th	72	8vo ..	1st ...	1,000	Printed	0 4 0	.....	A key ...	8619
May, 17th	60	12mo dy	1st ...	1,000	ditto ...	0 4 0	Jadunáth Bhattácháryya, Nawhatta.	In the form of a dialogue ...	8620
„ 23rd	17	12mo ...	1st ..	1,000	ditto ...	0 3 0	Chandra Bhushan Lahiri and Shashi Bhushan Chakrabarti, Tangail.	A key	8621
April, 17th	22	12mo ...	1st ...	1,000	ditto ..	0 2 0	Shashi Bhushan Das, Tangail.	ditto ...	8622
June, 9th	17	12mo ...	1st ...	1,000	ditto ..	0 2 0	.....	ditto ..	8623
Mar., 16th	34	12mo ..	1st ...	1,000	ditto ..	0 1 0	.....	An Alphabetical Primer ..	8624
„ 26th	8	8vo dy...	1st ...	500	ditto ...	0 2 0	Krishna Kumár De, Noakhali.	A key	8625
May, 7th	22	8vo ...	2nd ...	1,000	ditto ...	0 2 0	.....	ditto ...	8626
Mar., 20th	24	12mo ...	2nd ...	1,000	ditto ..	0 1 0	.....	An Alphabetical Primer ...	8627
„ 25th	168	12mo dy	2nd ...	5,000	ditto ..	0 11 0	Mathuranáth Barma, 12-9, Goabagan Street, Calcutta.	A Bengali Reader	8628
April, 11th	21	12mo rl	1st ...	3,000	ditto ...	0 2 6	Tarinikánta Mazumdar.	A key ...	8629
„ 9th	20	12mo rl	1st ...	3,000	ditto ..	0 2 0	ditto ...	ditto ..	8630
„ 29th	8	12mo rl	1st ...	1,000	ditto ...	0 2 0	Mukunda Lál Dás.	ditto ...	8631
Mar., 29th	56	12mo ...	2nd ...	2,000	ditto ...	0 3 0	Baradáprasád Mazumdar, 22-2, Jhamapukur Lane. Calcutta.	ditto ...	8632
April, 20th	34	12mo ...	2nd ...	1,000	ditto ...	0 4 0	ditto ...	ditto ...	8633
„ 20th	84	12mo ...	2nd ...	1,000	ditto ...	0 6 0	ditto ...	ditto ..	8634
„ 25th	56	12mo ...	3rd ...	1,000	ditto ...	0 3 0	ditto ..	ditto ...	8635
„ 25th	39	12mo ...	1st ...	1,000	ditto ...	0 2 0	ditto ...	ditto ..	8636
May, 20th	230	12mo ..	1st ...	1,000	ditto ...	0 12 0	ditto ..	ditto ..	8637

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	LANGUAGE—*contd.*					
8638	Aryapáth. The Aryan Reader.	Bengali	Bireswar Pande	Language.	Printed at 24, Beadon Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Manimohan Rakshit, and published by the Sanskrit Press Depository.
8639	Aryashikshá. The Aryan Education.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8640	Arya Charit. The Aryan Characters.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8641	Barnajog O Námlikhan. Of Spelling and Writing of Names. Parts I and II.	ditto ...	Jashodá Nandan Sarkar.	ditto ...	Printed and published at 24, Beadon Street, Calcutta.	Printed and published by Manimohan Rakshit.
8642	Aryapáth Bibek. A key to Aryapáth.	ditto ...	Rameswar Banerji.	ditto ...	ditto ditto ...	ditto ditto ...
8643	Kishor Kusum. A Flower for Youth.	ditto ...	Brajamohan Dás.	ditto ...	Printed at 5, Nilmadhab Sen's Lane, Calcutta, and published at Goalpara.	Printed by A. G. Sen and Co., and published by Gopal Chandra Das.
8644	Saral Kabitá Mayir Artha. A key to Saral Kabitá Mayí.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8645	Bályapáthártha. A key to Bályapáth.	ditto ..	Matíndra Mohan Basu.	ditto ..	Printed at 5, Nilmadhab Sen's Lane, and published at 71-1, Sitárám Ghosh's Street, Calcutta.	Printed by A. G. Sen and Co., and published by Matindra Mohan Basu.
8646	Níti Shikshár Artha Pustak. A key to Niti Shikshá.	ditto ..	L. Basu .	ditto ...	ditto ditto ...	Printed by A. G. Sen and Co., and published by L. Basu.
8647	Nítipátha Prabeshiká A key to Nitipath.	ditto ...	Pyári Mohan Gupta.	ditto ..	Printed at 5, Nilmadhab Sen's Lane, and published at 98, College Street, Calcutta.	Printed by A. G. Sen and Co., and published by Gobinda Chandra Sen.
8648	Byákaranánkur. A Sprout of Grammar.	ditto ..	Swarupa Chandra Raya.	ditto ...	Printed and published at 5, Nilmadhab Sen's Lane, Calcutta.	Printed and published by A. G. Sen and Co.
8649	Chárnprabandher Bíshada Byákhyá. A key to Charuprabandha.	ditto ..	Kunjabihari Banerji.	ditto ...	Printed at 84, Rájá Rájballabh's Street, and published at 176—H17, Chitpore Road, Calcutta.	Printed by Naba Kumar Basu, and published by Kunjabihari Banerji.
8650	Naba-Barna-Parichaya. A new Alphabetical Primer.	ditto .	Umesh Chandra Bhattácháryya.	ditto ...	Printed at 2, Tarak Chatterji's Lane, and published at 115, Upper Chitpore Road, Calcutta.	Printed by Naba Kumar Basu, and published by Umesh Chandra Bhattácháryya.
8651	Dwitiya Bhág Shishu Shikshár Arthapustak. A key to Shishu Shikshá. Part II.	ditto ..	.....	ditto ..	ditto ditto ..	ditto ditto ...
8652	Bodhodayer Arthapustak A key to Bodhodaya.	ditto ..	ditto ..	ditto ...	ditto ditto ..	Printed and published by Umesh Chandra Bhattácháryya.
8653	Tritíra Bhág Shíshu Shikshár Arthapustak. A key to Shishu Shiksha. Part III.	ditto ..	ditto ..	ditto ..	ditto ditto ..	ditto ditto ...
8654	Chárupáth. Entertaining Lessons. Part II.	ditto ..	Akshaya Kumar Datta.	ditto ..	Printed at 6, Balarám De's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by H. M. Mukharji & Co., and published by the Sanskrit Press Depository.
8655	Patha Málá. A Bengali Reador. Part I.	ditto ...	Dámodar Mukharji.	ditto ...	Printed and published at 6, Balaram De's Street, Calcutta.	Printed and published by H. M. Mukharji & Co.
8656	Ditto ditto. Part II	ditto ..	ditto ..	ditto ..	ditto ditto ..	ditto ditto ...
8657	Sandarbha Málá. A collection of Essays.	ditto ...	Devendra Náth Mukharji.	ditto ..	Printed and published at 132, Maniktala Street, Calcutta.	Printed and published by Harihar Nandi.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar., 25th	44	12mo ...	2nd ...	1,000	Printed	0 6 0	Bireswar Pande, 29, Krishna Sinha's Lane, Calcutta.	A school-book ...	8638
May, 4th	150	12mo ...	2nd ...	1,000	ditto ...	0 10 0	ditto ..	ditto ...	8639
April, 15th	88	12mo ...	7th ...	1,000	ditto ...	0 4 0	ditto ..	ditto ...	8640
„ 20th	46	16mo dy	1st ...	1,000	ditto ...	0 1 3	.....	Of simple and compound letters	8641
„ 28th	108	12mo dy	1st ...	1,000	ditto ...	0 5 0	.....	A key ...	8642
May, 7th	36	12mo ...	1st ...	1,000	ditto ...	0 3 0	Brajamohan Das, Goalpara.	Easy lessons suited to boys of tender years.	8643
„ 5th	24	12mo ...	1st ...	1,000	ditto ...	0 2 0	Brajamohan Das	A key ...	8644
„ 15th	24	12mo ...	1st ...	1,000	ditto ...	0 4 0	Matíndra Mohan Basu, 71-1, Sítáram Ghosh's Street, Calcutta.	ditto ...	8645
„ 25th	24	12mo ...	1st ...	1,000	ditto ...	0 3 0	L. Basu, 71-1, Sítárám Ghosh's Street, Calcutta.	ditto ...	8646
„ 10th	48	12mo ...	1st ...	1,000	ditto ..	0 4 0	Gobinda Chandra Sen, 98, College Street, Calcutta.	ditto ...	8647
April, 30th	72	12mo ...	11th...	3,000	ditto ...	0 3 6	Swarup Chandra Raya.	A well-known work on Bengali Grammar.	8648
May, 15th	68	12mo dy	1st ...	1,000	ditto ...	0 4 0	Kunjabihari Banorji, 176—H17, Chitpore Road, Calcutta	A key	8649
„ 2nd	22	12mo dy	8th ...	1,000	ditto ..	0 1 0	Umesh Chandra Bhattácháryya, Calcutta.	.....	8650
„ 5th	9	12mo dy	3rd ..	1,000	ditto ...	0 1 3	ditto ...	A key	8651
„ 2nd	21	12mo rl	10th...	1,000	ditto ...	0 3 0	ditto ...	ditto	8652
„ 6th	19	12mo rl	9th ...	1,000	ditto ...	0 2 0	ditto ..	ditto	8653
Mar., 22nd	135	12mo ...	27th..	10,000	ditto ..	0 8 0	Biráj Mohini Dási, Nimta, 24-Parganas.	A well-known school book ...	8654
April, 15th	58	16mo FS	6th ...	2,000	ditto ...	0 2 0	Navadwip Chandra Ráya, 5, Ashutosh De's Lane, Calcutta.	ditto ditto ...	8655
„ 16th	92	16mo FS	4th ...	2,000	ditto ...	0 3 0	ditto ...	ditto ditto ...	8656
„ 7th	82	12mo dy	1st ..	1,000	ditto ..	0 6 0	S. B. Basu 13, Shibnarayan Das's Lane, and D. N. Mukharji, 48, Guruprasad Chaudhuri's Lane, Calcutta.	ditto ditto ...	8657

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						BENGALI
	LANGUAGE—*contd.*					
8658	Nútan Dwitíya Bhág Akhyánamanjarír Sucháru Byákhyá A key to new Akhyánamanjarí. Part II.	Bengali	Kalidás Ghosh.	Language	Printed at 23, Jugal Kishor Das' Lane, and published at 54-1, College Street, Calcutta.	Printed by Udaya Charan Pal, and published by Purna Chandra Basu.
8659	Nabapátha. New Lessons. Part II.	ditto ...	Kalikrishna Bhattácháryya.	ditto ..	Printed and published at 24, Grish Bidyaratna's Lane, Calcutta.	Printed by Shashi Bhushan Bhattácháryya, and published by Harish Chandra Kabiratna.
8660	Ditto ditto. Part I	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8661	Bangálá Byákarana. A Bengali Grammar.	ditto ..	Tárini Sankar Sanyal.	ditto ...	ditto ditto ...	Printed and published by Sashi Bhushan Bhattácháryya.
8662	Nitipáth. Moral Reader.	ditto ..	Rájendra Mohan Datta.	ditto ..	Printed at 24, Girish Bidyáratna's Lane, and published at the Dacca Students' Library.	Printed by Sashi Bhushan Bhattácháryya, and published by the Students' Library, Dacca.
8663	Pratham Bhág Saral Kabitábalir Byákhyá. A key to Saral Kabitabali. Part I	ditto ..	Jadab Chandra Goswami.	ditto ..	Printed at 44, Amherst Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Biharilal Banerji, and published by the Sanskrit Press Depository.
8664	Padya Chandriká. A key to Padyapáth. Part III.	ditto ..	.....	ditto	ditto ditto ..	ditto ditto ...
8665	Kabitá Kusum Bodhini. A key to Kabitá Kusum.	ditto ..	L. Basu ..	ditto ..	Printed at 14, Mirjafar's Lane, and published at 71-1, Sitarám Ghosh's Street, Calcutta.	Printed by P. N. Biswas, and published by L. Basu.
8666	Ditto ditto ...	ditto ...	ditto ..	ditto ..	ditto ditto ..	ditto ditto ...
8667	Páth Málártha. A key to Páth Málá. Part II.	ditto ...	Matíndra Mohan Basu.	ditto ...	ditto ditto ..	Printed by P. N. Biswas, and published by Matíndra Mohan Basu.
8668	Ditto ditto. Part II	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8669	Ditto ditto. Part I	ditto ..	Tarip Muhammad Mandal.	ditto ..	Printed at 14, Mirjafar's Lane, and published at Nowgong.	Printed by P. N. Biswas, and published by Tarip Muhammad Mandal.
8670	Nitipátha Subodhiní A key to Nitipatha.	ditto ...	Rajendra Kumar Basu.	ditto ..	Printed at 14, Mirjafar's Lane, and published at 55, College Street, Calcutta.	Printed by P. N. Biswas, and published by M. M. Mazumdar.
8671	Rájyábhishek Prakashiká. A key to Rámer Rajyábhishek.	ditto ...	Kshetra Mohan Sen Gupta Bidyáratna.	ditto ..	Printed and published at 92, Bowbazar Street, Calcutta.	Printed and published by Kishori Mohan Sen.
8672	Kabitá Kaumudí Pratham Bháger Artha O Bishada Byákhyá.	ditto ...	Atul Chandra Chakrabartí.	ditto ...	Printed at 221, Cornwallis Street, and published at Islampore, Dacca.	Printed by Abhaya Charan Gupta, and published by Atul Chandra Chakrabartí.
8673	Nitipátha Chandriká. A key to Nitipatha.	ditto ...	Prasanna Kumar Pandit.	ditto ..	Printed at 2, Nawabdi Ostagar's Lane, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Pítambar Banerji, and published by the Sanskrit Press Depository.
8674	Padyapátha Chandriká. A key to Padyapátha. Part I.	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
8675	Jíban Charit Bodhiní. A key to Jiban Charit.	ditto ...	L. Bose ...	ditto ...	Printed at 5, Nilmadhab Sen's Lane, and published at 71, Sitárám Ghosh's Street, Calcutta.	Printed by A. G. Sen and Company, and published by L. Bose.
8676	Jnánánkur. The Sprout of Knowledge. Part III.	ditto ...	Dr. Bhárat Chandra Banerji.	ditto ...	Printed and published at 46, Panchánantala Lane, Calcutta.	Printed and published by Sannyal and Company.
8677	Shishu Shikshá Tritíya Bhager Shabdártha. A key to Shishu Shikshá. Part III.	ditto ...	Srinath Bhattácharya.	ditto ...	ditto ditto ..	ditto ditto ...

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P			
April, 15th	40	12mo dy	2nd ...	2,000	Printed	0 4 0	Purna Chandra Basu, 54-1, College Street, Calcutta.	A key	8658
Mar., 14th	120	12mo dy	4th ..	1,000	ditto ...	0 4 0	Kalikrishna Bhattácháryya, Harinabhi.	A school book	8659
„ 29th	96	12mo dy	9th ..	2,000	ditto ...	0 3 0	ditto	ditto	8660
May, 18th	96	12mo dy	8th ...	5,000	ditto ...	0 4 0	Tarini Sankar Sanyal, Salap. Pubna.	ditto	8661
April, 28th	72	12mo dy	6th ...	2,000	ditto ..	0 4 0	Rajendra Mohan Datta, Dacca.	ditto	8662
„ 30th	28	12mo ...	1st ...	2,000	ditto ...	0 3 0	Jadab Chandra Goswami, Pubna.	A key	8663
Mar., 29th	207	12mo ...	2nd ...	2,000	ditto ...	0 10 0	Abinásh Chandra Mukharji, Belpukuria, Nuddea.	ditto	8664
May, 5th	32	12mo dy	1st ...	1,000	ditto ...	0 3 0	L. Basu, 71-1, Sitaram Ghosh's Street, Calcutta.	ditto	8665
June, 8th	32	12mo dy	2nd ..	1,000	ditto ...	0 3 0	ditto ...	ditto	8666
April, 1st	35	12mo dy	1st ..	1,000	ditto ...	0 4 0	Mahendra Mohan Basu, 71-1, Sitaram Ghosh's Street, Calcutta.	ditto	8667
May, 6th	35	12mo dy	2nd ...	1,000	ditto ...	0 4 0	ditto ...	ditto	8668
April, 9th	14	12mo dy	1st ...	1,000	ditto ...	0 3 0	Tarip Muhammad Mandal, Nowgong.	ditto	8669
May, 5th	70	12mo dy	1st ...	1,000	ditto ...	0 5 0	M. M. Mazumdar, 55, College Street, Calcutta.	ditto	8670
April, 22nd	136	12mo dy	1st ...	2,000	ditto ..	0 8 0	Kshetra Mohan Sen Gupta, 34-1, Suri's Tank Lane, Calcutta.	ditto	8671
May, 5th	31	8vo ...	1st ...	1,000	ditto ...	0 4 0	Iswara Chandra Chatterji, 49, Bansala Street, Calcutta.	ditto	8672
April, 5th	48	12mo ...	1st ..	2,000	ditto ...	0 3 0	Prasanna Kumar Pandit, Bolpukur, Nadia.	ditto	8673
„ 5th	49	12mo ...	1st ..	1,000	ditto ...	0 2 0	ditto ..	ditto	8674
„ 25th	92	12mo ...	1st ...	1,000	ditto ...	0 8 0	L. Bose, 71-1, Sitárám Ghosh's Street, Calcutta.	ditto	8675
Mar., 26th	94	12mo dy	2nd ..	2,000	ditto ..	0 4 0	Bhárat Chandra Banerji, Dacca.	A school-book	8676
May, 7th	20	12mo dy	3rd ...	3,000	ditto ...	0 1 6	Srinath Bhattácháryya, Mymensingh.	A key	8677

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						BENGALI
	LANGUAGE—*concld.*					
8678	Byákaran Manjúshá. A Grammatical Chest.	Bengali	Umesh Chandra Gupta.	Language	Printed at 46, Panchánantalá Lane, Calcutta, and published at Mymensingh	Printed by Sannyal and Company, and published by Srináth Bhátta-chárya.
8679	Rámer Rájyábhisheker Sucháru Byákhyá. A key to Rámer Rajyábhisheka.	ditto ..	Kálíprasanna Bidyáratna	ditto ...	Printed at 30, Fakir Chand Chakrabarti's Lane, and published at 115, Chitpore Road, Calcutta.	Printed by Naba Kumár Basu, and published by Umesh Chandra Bhattá-chárya.
8680	Saral Shishu Shikshá Pratham Bhág New Shishu Shikshá. Part I.	ditto ...	.....	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 108, Upper Chitpore, Road, Calcutta.	Printed by Kaliprasanna Raya, and published by Sarat Chandra Bhattá-chárya.
	LAW.					
8681	Miunisipyál Byabasthá Darpan. The Mirror of Municipal Provisions. (T.)	ditto ...	Bihári Lal Mitra	Law ..	Printed and published at 7, Thakurdas Palit's Lane, Calcutta.	Printed and published by Haridas Do.
	MEDICINE.					
8682	Homiopyáthi Mate Griha Chikitsá. A Homœopathic Treatise on Domestic Medicine.	ditto ..	Jagadish Chandra Lahiri.	Medicine, E.	Printed at 109, and published at 101, College Street, Calcutta.	Printed by Umácharan Chakrabartí, and published by Lahiri and Company.
8683	Bángálá Gárhasthya Chikitsá. A Treatise on Domestic Medicine according to the Ayurvedic System.	ditto ..	Satya Charan Barát.	Medicine, N.	Printed at 22-2, Jhamapukur Lane, and published at 54-1, College Street, Calcutta.	Printed by Baradaprasád Mazumdar, and published by the Anglo-Vernacular Depository.
8684	Bhaishajya Sára. Abstract of Materia Medica.	ditto ..	Mahendra Nath Gupta.	Medicine, E.	Printed at 7, Thakurdas Palit's Lane, and published at the Campbell Medical School, Calcutta.	Printed by Haridas Do, and published by Mahendra Nath Gupta.
8685	Sabirám O Aparápar Jwara O Anusangik Roger Bhaishajyaguna Sangraha. A Materia Medica of Intermittent and other Fevers and their concomitant complications.	ditto ...	Kali Krishna Mitra.	ditto ..	Printed at 182, Amherst Street, and published at 1, Upper Circular Road, Calcutta.	Printed by H. C. Datta and Company, and published by L. V. Mitra and Company.
8686	Fármákopiyá. Homiopethik Kramaprastuta Paddhati. The Process of Preparing Dilutions of Homœopathic Medicines.	ditto ..	Kishori Mohan Mukharji.	ditto .	Printed and published at 4, College Square, Calcutta.	Printed and published by Nibáran Chandra Ghosh.
	MISCELLANEOUS.					
8687	Adbhut Juyáchuri Shikshá. Excellent Training in the Art of Cheating.	ditto ..	Durgádás Lahiri.	Miscellaneous.	Printed at 34, Beniatola Lane, and published at 58, College Street, Calcutta.	Printed by Ashutosh Banerji, and published by Kalidas Lahiri.
8688	Shikshá Dán Bidhá. The Method of Imparting Instruction.	ditto ..	Hárán Chandra Chakrabarti.	ditto .	Printed at 3, Beadon Square, and published at Jalpaiguri.	Printed by Biharilal Das, and published by Hárán Chandra Chakrabarti.
8689	Bhoj Bidyá. Magic ..	ditto ..	.....	ditto .	Printed and published at 3, Beadon Square, Calcutta.	Printed and published by Biharilal Das.
8690	Nánd Tattwa. A Variety of Subjects.	ditto ...	.....	ditto ..	ditto ditto ..	Printed by Biharilal Das, and published by Upendra Nath Mukharji.
8691	Bárat Ramaní. Indian Females.	ditto ..	Manmatha Nath Datta	ditto .	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 28th	222	12mo dy	9th ...	3,000	Printed	0 10 0	Srinath Bhattácháryya, Mymensingh.	A well-known Bengali Grammar	8678
May, 17th	140	12mo dy	1st ..	1,000	ditto ...	1 0 0	Umesh Chandra Bhattácháryya, Calcutta.	A key	8679
„ 7th	32	12mo dy	1st ...	1,000	ditto ...	0 1 0	Sarat Chandra Bhattácháryya, Calcutta.	An Alphabetical Primer ...	8680
April, 22nd	236	8vo dy ..	1st ...	1,000	ditto ...	1 0 0	Biharilal Mitra, 34, Kalidas Sinha's Lane, Calcutta.	A Bengali translation of the Calcutta Municipal Consolidation Act II (B.C.) of 1888 with indices.	8681
Mar., 5th	190	12mo fc	2nd ..	1,500	ditto ..	0 8 0	Lahiri and Company, 101, College Street, Calcutta.	An enlarged and improved edition.	8682
May, 20th	362	12mo ..	1st ..	1,000	ditto ...	2 0 0	Baradaprasád Mazumdar, 22-2, Jhamapukur Lane, Calcutta.	Symptoms of diseases, their treatment, diet regulation, the method of feeling the pulse, &c.	8683
April, 2nd	352	8vo dy .	3rd ..	500	ditto ..	3 8 0	Mahendra Nath Gupta, 9, Mirzapore 2nd Lane, Calcutta.	....	8684
May, 3rd	236	8vo dy .	1st	500	ditto ...	2 8 0	Kalikrishna Mitra, Barasat.	A Homœopathic treatise on intermittent and other fevers.	8685
Feb., 29th	72	8vo dy..	1st ...	1,000	ditto ...	1 0 0	Kishori Mohan Mukharji, 34, College Street, Calcutta.	The title explains the object of the work.	8686
April, 24th	258	32mo rl	1st ...	1,000	ditto ...	0 8 0	Durga Dás Lahiri	Sensational stories of cheating reprinted from the organ of the "Committee of Enquiry."	8687
„ 15th	37	12mo dy	1st ...	1,000	ditto ...	0 5 0	Háran Chandra Chakrabarti, Jalpaiguri.	For the use of the *gurus* of primary schools in Bengal. The object of the work is to teach the *gurus* how best to impart instruction to young lads in the various branches of knowledge.	8688
„ 18th	66	12mo dy	3rd .	1,000	ditto ...	1 0 0	Upendra Nath Mukharji, Calcutta.	Noticed	8689
„ 26th	38	16mo dy	New...	1,000	ditto ..	0 2 0	ditto ...	The preparation of various articles of luxury, prescriptions for the cure of a variety of diseases. &c.	8690
„ 27th	60	12mo dy	New	1,000	ditto ..	0 8 0	ditto ...	Contains accounts of Sitá, Satí, Draupadí, Damayantí, and Sábitrí.	8691

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	MISCELLANEOUS—*contd.*					
8692	Shuka Bilás. The Sports of the Parrot.	Bengali	Nanda Kumár Kabiratna.	Miscellaneous.	Printed at 323, Chitpore Road, and published at 40, Garanhata Street, Calcutta.	Printed by Tinkari Biswás, and published by P. Ghosh.
8693	Sangíta Ságar. An Ocean of Songs.	ditto ...	Aghor Chandra Ghosh.	ditto ..	ditto ditto ...	ditto ditto ...
8694	Náritattwa. A Treatise on Females.	ditto ...	Baradákánta Mazumdár.	ditto ..	Printed at 2, Nawabdi Ostagar's Lane, and published at 1, Upper Circular Road, Calcutta.	Printed by Pitámbar Banerji, and published by L. V. Mitra and Company.
8695	Go Tattwa. A Treatise on Cattle. (T.)	ditto ...	Rájá Shashi Shekhareshwar.	ditto ...	Printed at 3, Maniktala Street, and published at Tahirpore, Rajshahi.	Printed by Nagendra Nath Bose, and published by the Tahirpore Krishi Office.
8696	Manihári. Miscellaneous Goods.	ditto ...	Praphulla Chandra Banerji.	ditto ...	Printed at 84-1, Colootola Street, and published at 201, Cornwallis Street, Calcutta.	Printed by Bihari Lál Sarkár, and published by Gurudás Chatterji.
	and functions of the faculty of reason, renunciation of the world, national degradation, &c. It contains a					
8697	Átma Rakshár Mula Mantra. The First Principles of Self-preservation.	ditto ...	Sarat Chandra Chaudhuri.	ditto ..	Printed and published at 92, Bowbazar Street, Calcutta.	Printed and published by Kisori Mohan Sen.
	can be easily had: food is not so easily to be had; therefore the writer advises people to lay by something every					
8698	Sáttvik Sangít. Religious Songs.	ditto ...	Bipin Bihari Sen.	ditto ...	ditto ditto ...	ditto ditto ...
8699	Stri Rahasya. Female Mystery.	ditto ...	Rádháranjan Shaha.	ditto ...	Printed and published at Kumarkhali.	Printed by Satish Chandra Mazumdar, and published by Amrita Lál Mazumdar.
8700	Kángál Fikirchand Fakirer Gítabalí. Songs by the Poor Mendicant Fikir Chánd.	ditto ...	Hárinath Mazumdar	ditto ...	ditto ditto ...	Printed and published by Satish Chandra Mazumdar.
8701	Beshyá Shástra. The Science of Prostitution	ditto ...	Mukundalal Chatterji.	ditto ...	Printed at 153, Cornwallis Street, and published at 8-1, Colootola Street, Calcutta.	Printed by G. C. Chakrabarti, and published by Hitlál Chatterji.
	the sterner sex, their relations with the police, and the methods resorted to for the purpose of increasing their					
8702	Gítábataraniká. An Introduction to Songs.	ditto ...	Chandra Shekhar Bhattácháryya.	ditto ...	Printed and published at Berhampore.	Printed by Sri Chandra Ráya, and published by Radhiká Náth Mukharji.
8703	Tripurá Lon Apish, Limiteder Niyamábali. Rules of the Tippara Loan Office, Limited.	ditto ...	.....	ditto ..	Printed and published at Komillah.	Printed and published by Nilambar Datta.
8704	Sukha Ságara. The Ocean of Bliss.	ditto ..	.....	ditto ...	Printed and published at 3, Beadon Square, Calcutta.	Printed by Biharilál Das, and published by Upendranáth Mukharji.
8705	Mahájani Gáid. The Money-lenders' Guide.	ditto ..	Durgácharan Bhaumik.	ditto ...	Printed and published at Bhowanipore.	Printed and published by Nabin Krishna Mukharji.
8706	Spensár Sáheber Belun Bihár. The Balloon Adventures of Mr. Spencer.	ditto ..	.....	ditto ..	Printed and published at 1, Nimu Gosain's Lane, Calcutta.	Printed and published by Mákhanlal Ghosh.
8707	Trináther Pánchali. Metrical Recitations in honour of Triuáth.	ditto ...	Nandalál Raya	ditto ..	Printed at 2, Tarak Chatterji's Lane, and published at 115, Chitpore Road, Calcutta.	Printed and published by Umesh Chandra Bhattácháryya.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
June, 3rd	114	12mo rl	1st ...	1,000	Printed	0 4 0	.....	Legends about Bikramáditya arranged in the form of a continuous poem by Nanda Kumár Kabiratna, who wrote at Calcutta during the middle of this century.	8692
Jan., 19th	867	12mo dy	1st ...	500	ditto ...	2 0 0	Panchánan Ghosh, Calcutta.	The book contains seven distinct works, all of which were published before and noticed in this catalogue.	8693
April, 25th	175	12mo ..	1st ...	500	ditto ...	0 12 0	Baradakánta Mazumdar, 20, Guruprasád Chaudhuri's Lane, Calcutta.	One of a class of works which are now becoming numerous, and which, while professing to treat of the health, culture, &c., of women, indulge in prurient descriptions.	8694
Mar., 31th	127	16mo dy	1st ...	3,000	ditto ...	.....	Raja Shashi Shekhareswar, Tahirpore.	A translation of Dr. Mallen's manual of the cattle diseases in India.	8695
„ 15th	377	8vo dy	1st ...	700	ditto ...	1 10 0	Jogendra Chandra Basu, 34-1, Colootola Street, Calcutta.	A collection of miscellaneous essays, mostly on weighty subjects, such as the duties of man, the religion of man, the utility	8696
literal translation of a few chapters of Carlyle's Sartor Resartus and some thoughts on the Bengali poets.									
April, 22nd	24	12mo dy	1st ...	1,000	ditto ...	0 1 0	Sarat Chandra Chaudhuri, Puntea.	Lays stress on the necessity of keeping air, water and food pure and uncontaminated by foul substances. Air and water	8697
now and then to serve them in times of scarcity and famine.									
„ 25th	98	12mo dy	1st ...	1,000	ditto ...	0 12 0	Bipin Bihari Sen, 24, Bechu Chatterji's Street, Calcutta.	A collection of songs composed by the author on a variety of occasions, and on a variety of subjects mostly religious.	8698
May 13th	23	dy ...	1st ...	500	ditto ...	0 2 0	Amritalál Mazumdar, Kumarkhali.	An essay on the relation between man and woman.	8699
April 8th	12	dy ..	1st ...	1,000	ditto ...	0 1 0	Harináth Mazumdar, Kumarkhali.	Songs written in homely language containing beautiful sentiments and noble instruction.	8700
June, 1st	80	12mo dy	1st ...	1,000	ditto ...	0 8 0	Mukundalál Chaudhuri, 8-1, Colootola Street, Calcutta.	A work on prostitutes, their mode of living, their manner of attracting customers, their quarrels, their relations with	8701
strength. Though not positively obscene, it is full of prurient descriptions.									
May, 8th	12	8vo ...	1st ...	700	ditto ...	0 1 6	.....	Original songs on religious subjects.	8702
April, 29th	48	8vo dy	1st ...	500	ditto ...	0 2 0	.....	.....	8703
April, 25th	232	12mo dy	New...	1,000	ditto ...	2 0 0	Upendranáth Mukharji.	A number of essays on the acquisition of physical, mental, moral, social and domestic happiness.	8704
June, 1st	56	8vo dy	1st ..	500	ditto ...	0 4 0	Durgácharan Bhaumik, Bhawanipore.	Contains notes on the method of making advances of money, the forms of bonds and hand notes, mortgage deeds, &c., and the method of calculating interest.	8705
April, 11th	9	12mo dy	1st ...	1,000	itto ...	0 0 3	.....	The title explains the object of the work.	8706
May, 3rd	9	12mo dy	2nd ...	1,000	ditto ...	0 1 0	Umesh Chandra Bhattácháryya.	Noticed ..	8707

1	2	3	4	5		7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	MISCELLANEOUS—*contd.*					
8708	Sangíta Kantha Málá A Necklace of Songs.	Bengali	Matilál Síl ...	Miscellaneous.	Printed at 1, Garanhata Street, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Gobinda Chandra Datta, and published by Hridayalál Sil.
8709	Debaganer Marttye Agaman. The Advent of Gods on earth.	ditto ...	Durgácharan Ráya.	ditto ...	Printed at 21, Sitárám Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by Shashi Bhúshan Datta, and published by Bhupendra Kumar Kabiratna.
8710	Jamidári Káryya Sambandhiya Niyamábali. Rules regulating zemindari business.	ditto ...	Rájá Suryya Kánta Acharyya.	ditto ...	Printed and published at 46, Panchanan Tala Lane, Calcutta.	Printed and published by Sanyal and Company.
8711	Gagane Chánder Hát and Meghadutádi Granthábali. A number of works such as Gagane Chánder Hát, Meghaduta, &c.	ditto ...	K. P. Bidyaratna and others.	ditto ...	Printed at Chitpore, and published at Simla, Calcutta.	Printed by Rakhal Chandra Das, and published by Surendranath Sharmá.
8712	Galpa Swalpa. Stories, &c.	ditto ...	Swarna Kumári Debi.	ditto ...	Printed and published at 55, Chitpore Road, Calcutta.	Printed and published by Kálidás Chakrabarti.
8713	Prithibir Adi Samayer Sankshipta Bibaran. A Short Account of the Early Period of Earth's existence.	ditto ...	Jogendra Chandra Sen.	ditto ..	Printed at 55, Chitpore Road, and published at Jorasanko, Calcutta.	Printed by Kálidás Chakrabarti, and published by Jogendra Chandra Sen.
8714	Sahadharmini. The Partner in Religious Merit.	ditto ...	Suryyakánta Dvivedi.	ditto ...	Printed and published at 54—2-1, Grey Street, Calcutta.	Printed and published by Girish Chandra Ghosh.
8715	Brihat Baul Sangita. A Large Recension of the Baul Songs.	ditto ...	Binod Bihari Sil.	ditto ...	Printed at 383, Upper Chitpore Road, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Binod Bihari Sil, and published by Kánáilal Dhar.
8716	Adrishta Parikshá. An Examination of Fate.	ditto ...	Jnánendra Mohan Set.	ditto ..	Printed at 383, and published at 118, Upper Chitpore Road, Calcutta.	Printed by Binod Bihari Sil, and published by the Author.
8717	Granthábali. The complete works of Babu Rájkrishna Ráya. Vol. IV. Part II.	ditto ...	Rajkrishna Ráya.	ditto ...	Printed and published at 37, Mechua Bazar Street, Calcutta.	Printed and published by Sarat Chandra Deva.
8718	Ditto ditto. Vol. IV. Part III.	ditto ...	ditto ...	ditto ..	Printed at 37, Mechua Bazar Street, and published at 201, Cornwallis Street, Calcutta.	Printed by Sarat Chandra Deba, and published by Gurudás Chatterji.
	The following works are designed for educational purposes.					
8719	Jamidári Mahájani O Bajár Hisáb. Zemindari, Mahajani and Bazar Accounts.	ditto ...	Nrisinha Chandra Mukharji, M.A., B.L.	ditto ...	Printed and published at 8, Dixon's Lane, Calcutta.	Printed and published by B. L. Chakrabarti.
8720	Bibidha Shikshá. Miscellaneous Instructions.	ditto ...	Ram Sundar Basak.	ditto ...	ditto ditto ...	ditto ditto ...
8721	Patra Likhibár Páth. Letter Writer.	ditto ...	Prasanna Bidyáratna.	ditto ...	Printed and published at the Dacca Raghunath Press.	Printed and published by Nanda Kishor Basak.
8722	Anka Shikshá. Instruction in Arithmetic.	ditto ...	Mathurá Nath Guha.	ditto ...	Printed and published at the Syamantak Press, Dacca.	Printed by Gopináth Basák, and published by Mathurá Náth Guha.
8723	Práimári Parikshá. Primary Examination.	ditto ...	Gangá Dás Sháhá.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Báránasi Ghosh's Street, Calcutta.	Printed by Jadu Náth Sil, and published by the Sanskrit Press Depository.
8724	Páthsálá Pátiganit. Arithmetic for Páthsálás.	ditto ...	Brajendra Kumár Guha.	ditto ...	Printed and published at 46, Panchánantala Lane, Calcutta.	Printed and published by Sánnyál and Company.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright or any portion of it.	Remarks.	Number
BOOKS—continued.									
1889.	Pages.					Rs A. P			
May, 27th	96	12mo dy	1st ...	1,000	Printed	0 6 0	Hridayalál Sil, Calcutta.	A collection of songs on a variety of subjects, mostly love songs.	8708
„ 2nd	630	8vo dy	1st ...	1,000	ditto ..	4 0 0	Durgácharan Ráya, 80, Mir Jaffer's Lane, Calcutta.	Reprinted from the Kalpa Druma Magazine, now defunct. Hindu gods and goddesses have been represented as taking a railway trip all over India about the year 1880, taking notes of what they saw and making shrewd remarks on the passing events of the day.	8709
„ 11th	170	4to crown.	1st ...	8vo ...	ditto ..	.....	Rajá Surya Kanta Acharyya Chaudhuri.	For the guidance of officers engaged in conducting the zemindari affairs of Rajá Suryya Kanta Acharyya Chaudhuri.	8710
Mar., 15th	613	12vo ...	3rd ...	500	ditto ...	3 12 0	K. P. Bidyáratna and others, Mallikpore, Jessore.	The books have all been separately noticed in previous catalogues. These bound together form the present volume.	8711
„ 12th	100	12mo dy	1st ...	1,000	ditto ...	0 8 0	Swarna Kumári Debi, Kasiabagan Garden House, Calcutta.	Essays, stories, and short poems written by the authoress	8712
May, 8th	42	8vo rl ...	1st ...	500	ditto ...	1 0 0	Jogendra Chandra Sen, Jorasanko, Calcutta.	The work is said to have been written by the son and grandson of the first progenitor of the world.	8713
April, 4th	32	12mo dy	1st ...	1,000	ditto ...	0 4 0	Suryyakánta Dvidevi, Akandabaria.	An account of Ruru and Pramadvará as given in the Mahábharata.	8714
„ 21st	64	12mo rl	New...	1,000	ditto ...	0 8 0	Kánáilál Dhar, Calcutta.	The nature of *baul* songs has often been explained.	8715
„ 13th	16	16mo dy	New...	1,000	ditto ..	0 2 0	Jnanendra Mohan Set.	A Book of Fate ..	8716
Feb., 25th	88	8vo rl ...	1st ..	500	ditto ...	1 0 0	Rájkrishna Ráya.	.....	8717
Mar., 5th	80	8vo rl ...	1st ...	500	ditto ...	1 0 0	ditto ...	.. ..	8718
„ 18th	186	8vo ...	36th...	8,000	ditto ...	0 10 0	Nrisinha Chandra Mukharji, Calcutta.	.....	8719
April, 5th	222	12mo ...	28th...	6,000	ditto ..	0 8 0	Ram Sundar Basak, Dacca.	.....	8720
May, 14th	56	12mo ...	1st ...	2,000	ditto ...	0 4 0	.....	A letter writer ...	8721
„ 30th	116	12mo ...	3rd ...	4,000	ditto ...	0 5 0	.....	Containing Arithmetic, Simple Mensuration, Subhankari Zemindari and Mahajani Accounts.	8722
Mar., 28th	231	12mo dy	2nd ...	2,000	ditto ...	0 10 0	Gangádás Sháhá, Ghat Bandar, Murshidabad.	Compiled for the Students of Lower Primary Schools.	8723
May, 13th	206	12mo dy	8th ...	6,000	ditto ...	0 6 0	Brajendra Kumár Guha, Dacca.	Containing also Simple Mensuration, Zemindari and Mahajani Accounts.	8724

1	2	3	4	5	6	7
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						BENGALI
	POETRY.					
8725	Durgábati. The Princess of Garra in Central India.	Bengali	Kali Kamal Datta.	Poetry ...	Printed and published at 2, Benetola Lane, Calcutta.	Printed and published by Natabar Chakrabarti.
8726	Bhárate Durgotsaba. The Durga Pujá in India.	ditto ..	Pratáp Chandra Sen.	ditto ...	Printed and published at Burdwan.	Printed and published by Pratáp Chandra Sen.
8727	Bagrir Krishna Ráya. The Image of Krishna at Bagri.	ditto ..	Ishán Chandra Sámanta.	ditto ...	Printed at 323, Chitpore Road, Calcutta, and published at Kánknan (Hooghly).	Printed by Tinkari Biswas, and published by the Author.
	and the history of the worship of Krishna Ráya. Rájyadhar Ráya of Krishnanagar in Bagri, in the district accordingly. This event took place some time before Chaitanya, as one of his followers, Abhirám					
8728	Pránochchhás. The Out-pourings of the Heart.	ditto ...	Jogendra Náth Banerji.	ditto ...	Printed and published at 54-2-1, Grey Street, Calcutta.	Printed by Girish Chandra Ghosh, and published by Nanigopál Mukharji.
8729	Sandhyá Málatí. The Evening Flower.	ditto ...	Shibakishor Chakrabarti.	ditto ...	Printed and published at the Dacca Oriental Press.	Printed by Ram Chandra Banik, and published by the Author.
	at evening, and at night, with humorous sketches of men and things. The other describes the condition of a					
8730	Hridaya Kusum The Flower of the Heart.	ditto ...	Kálidás Banerji	ditto ...	Printed and published at 92, Bow Bazar Street. Calcutta.	Printed and published by Kishori Mohan Sen.
8731	Bidagdha Hridaya. The Scorched Heart.	ditto ...	Debendra Náth Ráya Chaudhuri.	ditto ...	Printed and published at 249, Bow Bazar Street, Calcutta.	Printed and published by I. C. Bose & Co.
8732	Pralap. Ravings ..	ditto ...	Sharat Shashi Guptá.	ditto ..	Printed and published at the Bagura Raya Press.	Printed by Binod Bihari Banerji, and published by Ramesh Chandra Mazumdar.
8733	Bishade Shánti. Peace in Misery.	ditto ...	Sáradá Kánta Ráya.	ditto ...	ditto ditto ..	ditto ditto ...
8734	Sádhuranjan Sanhitá. Adisur Ballál Upákhyán. A compilation for the entertainment of good men. The Story of Adisur and Ballál.	ditto ..	Madhusudan Mallik.	ditto ...	Printed at 374, Upper Chitpore Road, and published at Ghuntea Bazar, Hooghly.	Printed by Hara Chandra Das, and published by Madhusudan Mallik.
	because Ballabh Adhya, a Sonar Bania, refused to advance a crore of rupees to Ballal Sen, one of the Ballal Sen. It represents him as a monster in human shape quite unfit to govern a kingdom.					
8735	Hridaya Lahari. Waves in the Heart.	ditto ..	Prán Gopál Datta.	ditto ...	Printed at 333, Upper Chitpore Road, and published at 3-4, Simla Street, Calcutta.	Printed by Binod Bihari Sil, and published by Shyámá Charan Das.
	Bidhabá. The Widow...	ditto ...	.....	ditto ...	Printed at 3, Beadon Square, and published at 35, Nimu Gosain's Lane, Calcutta.	Printed by Biharilál Das and published by Haridás Bhattácháryya.
8736	Sádher Biye. A long-wished-for marriage.	ditto ...	.....	ditto ...	Printed and published at 3, Beadon Square, Calcutta.	Printed and published by Biharilál Dás.
8737	Sachitra Sambhog Tattwa. An illustrated treatise on enjoyments	ditto .	.....	ditto ...	ditto ditto ...	Printed by Biharilál Dás, and published by Upendra Nath Mukharji.
	The following works are designed for educational purposes.					
8738	Mitra Páth. Mitra's Reader.	ditto ..	Ananda Chandra Mitra.	ditto ..	Printed at 221, Cornwallis Street, and published at Islampore, Dacca.	Printed by Abhaya Charan Gupta, and published by Matilál Chakrabarti.
8739	Padyasamgraha. A Poetical Reader.	ditto ..	Edited by Kedár Nath Bhattácháryya.	ditto ...	Printed at 8, Srináth Babu's Lane, and published at Malipara	Printed by Sarat Chandra Chatterji, and published by the Editor

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 9th	24	16mo double Foap.	1st ...	500	Printed	0 2 0	Kálikamal Datta, Chittagong.	A poem in praise of the valour of Durgábatí who defended her *raj*, for a time, against the Generals of Akbar, but who fell, at last, fighting for her freedom.	8725
1888.									
Octo., 5th	22	8vo dy	1st ...	500	ditto ...	0 4 0	Pratáp Chandra Sen, Gangatikri, Burdwan.	An address to the Indo-Aryans and a prayer to Durgá.	8726
1889.									
April, 9th	12	12mo dy	1st ...	1,000	ditto ...	0 1 0	Ishán Chandra Sámanta, Kánknan.	Krishna Raya of Bagri Perganá is a well-known image of Krishna. The present work gives the antiquity of the place	8727
of Midnapore, was asked by Krishna in a dream to consecrate one of his images made at Cuttack, and he did so Goswámí, is said to have tested the divine powers of the image.									
Mar., 25th	92	8vo rl	1st ...	1,000	ditto ...	0 8 0	Surendra Nath Banerji, 54-2-1, Grey Street, Calcutta.	A collection of short poetical pieces on a variety of subjects. In one piece addressed to Pandit I. C. Bidyáságar, the	8728
writer laments the lot of Hindu girl-widows and ridicules those who compel them to lead a life of perpetual widowhood.									
May, 10th	78	8vo ...	1st ...	1,000	ditto ...	1 0 0	.....	Two poems. One contains descriptions of Hindu society at morning, at noon,	8729
separated lover during each month of the year.									
April, 22nd	126	12mo dy	1st ...	500	ditto ...	0 12 0	Kalidás Banerji, Krishnagore.	Original pieces on a variety of subjects. Some of these pieces are adaptations of well-known English and Bengali poems.	8730
Mar., 12th	58	8vo dy	1st ..	250	ditto ...	.....	Debendra Kumár Ráya Chaudhuri, Báripore.	Written on the death of a dear child.	8731
May, 4th	46	.....	1st ...	500	ditto ...	Nil	.....	Lamentations of a bereaved mother at the loss of two of her sons within a short time of each other.	8732
June, 4th	19	12mo ...	1st ...	500	ditto ...	Nil	.....	Written to console a bereaved mother.	8733
„ 3rd	56	12mo dy	1st ...	1,000	ditto ...	0 4 0	.....	The Sonar Banias of Bengal consider themselves to be the representatives of the old Vaishya caste, but their position in the caste system in Bengal is very low, and they say that	8734
Sen Rájás of Bengal, that Rájá degraded the whole caste to a very low status. The present work is a lampoon on									
April, 27th	29	12mo dy	New	1,000	ditto ...	0 2 0	Shyámá Charan Das.	Original pieces on a variety of subjects.	8735
May, 5th	9	12mo dy	1st ...	1,000	ditto ...	0 2 0	Haridas Bhattácháryya, Calcutta.	The picture of a Hindu lady nursing her husband during his last illness.	
„ 4th	9	12mo dy	New	1,000	ditto ...	0 2 0	Biharilál Dás, Calcutta.	Describes how enlightened and educated daughters-in-law from towns bring about misery and ruin to the family into which they are married.	8736
April, 23rd	37	16mo dy	do.	1,000	ditto ...	0 4 0	Upendranath Mukharji, Calcutta.	Treats of love, and gives extracts from old authors.	8737
May, 5th	47	12mo ..	5th ...	1,000	ditto ...	0 5 0	Ishwar Chandra Chatterji, 49, Banstala Street, Calcutta.	A school-book	8738
April, 22nd	86	12mo dy	1st ...	1,000	ditto ...	0 8 0	Kedárnath Bhattácháryya.	Pieces selected from various standard authors.	8739

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	POETRY—*continued.*					
8740	Kabitá Páth. A Poetical Reader. Part I.	Bengali	Mahendra Náth Chakrabarti.	Poetry ...	Printed at 153, Cornwallis Street, and published at Rajpore, 24-Pergunnahs.	Printed by Gopál Chandra Chakrabarti, and published by the Author.
8741	Pushpamálá. Garland of Flowers.	ditto ..	Shib Náth Shástri.	ditto ...	Printed and published at 13, Cornwallis Street, Calcutta.	Printed and published by Kártik Chandra Datta.
8742	Padyasár. The substance of Poetry.	ditto ...	Ananda Chandra Mitra.	ditto ..	ditto ditto ...	ditto ditto ...
8743	Padyasár Tritya Bhág Athabá Kábyasára. Substance of Poetry. Part III, or substance of Belles Letters.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8744	Chárn Niti. Entertaining Morals. Part I.	ditto ...	Hárán Chandra Chakrabarti.	ditto ...	Printed at 3, Beadon Square, and published at Jalpiguri.	Printed by Biharilál Das, and published by the Author.
8745	Nitihár. Necklace of Morals.	ditto ...	Kailás Chandra Banerji.	ditto ...	Printed and published at Barisal.	Printed and published by Hara Kumár Kar.
8746	Padya Parichaya. Introduction to Poetry.	ditto ...	Srináth Charan Máshanta.	ditto ...	Printed and published at Ghantal.	Printed and published by Fakir Náráyan Sarkár.
8747	Kabitábali. A Collection of Poetical Pieces. Part I.	ditto ...	Harish Chandra Mitra.	ditto ...	Printed and published at the Dacca Syamantaka Press.	Printed by Gopinath Basak, and published by Kunjabihari Banik.
8748	Mitrapáth. Mitra's Reader.	ditto ..	Ananda Chandra Mitra.	ditto ...	ditto ditto ...	Printed by Gopinath Basak, and published by Matilál Chakrabarti.
8749	Jibanmaya Kábya. A Living Poem.	ditto ...	Madan Mohan Mitra.	ditto ...	Printed and published at the Dacca Raghunath Press.	Printed by Nandakisor Basak, and published by Baikuntha Pandit, Ripon Library, Dacca.
8750	Komal Kabitá. Tender Poetry.	ditto ..	Káliprasanna Ghosh.	ditto ..	Printed and published at the Dacca Girish Press.	Printed by Kalimuddin, and published by Harakumár Basu.
8751	Ditto ditto ...	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
8752	Ditto ditto ...	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ..
8753	Kabitá Chandriká. The Moonshine of Poetry.	ditto ...	Chandra Kánta Bidyáratna.	ditto ...	ditto ditto ...	Printed by Kalimuddin, and published by Gopa Mohan Datta.
8754	Padya Manjarí. Blossoms of Poetry. Part I.	ditto ...	Prasanna Chandra Bidyáratna.	ditto ..	Printed and published at the Raghunath Press, Dacca.	Printed and published by Nandakisor Basak.
8755	Ditto ditto ...	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8756	Shaishabajnána Chandriká. The Moonlight of Juvenile Knowledge.	ditto ...	Ráshbihári Mukharji.	ditto ...	Printed and published at the Adarsha Press, Dacca.	Printed and published by Lachhman Basak.
8757	Sadbhába Shataka. A Century of good Sentiments.	ditto ...	Krishna Chandra Mazumdar.	ditto ...	ditto ditto ..	Printed by Lachhman Basak, and published by Nabdakumár Guha.
8758	Chhátra Shikshá Kabitábali. A Collection of Poems on the Education of Students. Part I.	ditto ...	Govinda Chandra Ráya.	ditto ..	ditto ditto ...	Printed by Lachhman Basak and published by Baradá Sunker Dás.
8759	Kusum Manjari. The Flower in Blossoms.	ditto ...	Annadá Charan Gupta.	ditto ...	ditto ditto ...	Printed and published by Lachhman Basak.
8760	Padya Niti. Morals in Verse.	ditto ...	Sánukul Chandra Chatterji	ditto ...	Printed at 2, Nawabdi Ostagar's Lane, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Pitámbar Banerji, and published by the Sanskrit Press Depository.
8761	Padyapáth. Poetical Reader. Part I.	ditto ...	Jadugopal Chatterji.	ditto ...	Printed at 44, Amherst Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Biharilál Banerji, and published by the Sanskrit Press Depository.
8762	Ditto ditto. Part II	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
8763	Ditto ditto. Part III	ditto ...	ditto ..	ditto ..	ditto ditto ..	ditto ditto ..
8764	Sarala Kabitábali. A Collection of Easy Poetical Pieces. Part I.	ditto ...	Jádab Chandra Goswámi.	ditto ...	Printed at 44, Amherst Street, and published at Pubna.	Printed by Biharilál Banerji, and published by D D. Sur.
8765	Kabitá Kusumánjali. A Palmful of Flower of Poetry. Part II.	ditto ...	Krishna Kishor Banerji.	ditto ...	Printed at 44, Amherst Street, and published at Culna.	Printed by Biharilál Banerji, and published by Hari Charan Banerji.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
May, 31st	46	12mo dy	1st ...	1,000	Printed	0 2 0	Mahendra Náth Chakrabarti, Rajpore, 24-Pergunnahs.	.....	8740
Apr., 7th	128	12mo rl	5th ...	1,000	ditto ...	0 10 0	Shib Náth Shástri.	A well-known school-book ...	8741
„ 13th	60	12mo dy	5th ...	1,000	ditto ...	0 3 0	Ananda Chandra Mitra.	ditto ...	8742
„ 8th	150	12mo dy	2nd ...	1,000	ditto ...	0 8 0	ditto ...	ditto ...	8743
„ 18th	20	12mo dy	1st ...	1,000	ditto ...	0 2 0	Hárán Chandra Chakrabarti, Jalpiguri.	Entertaining lessons for the use of boys.	8744
May, 25th	58	9×5	1st ...	500	ditto ..	0 4 0	.....	Written with a view of teaching morals to school-boys.	8745
„ 2nd	34	12mo ...	4th ...	1,000	ditto ..	0 2 0	Srinath Charan Mashanta, Basudebpore, Midnapore.	.....	8746
„ 5th	25	12mo ...	5th ...	6,000	ditto ...	0 2 0	.....	.....	8747
May, 16th	47	12mo ...	6th ...	1,000	ditto ..	0 5 0	.....	.....	8748
„ 6th	140	12mo ...	2nd ...	2,500	ditto ...	0 8 0	.....	.....	8749
Mar., 25th	36	12mo ..	2nd ...	2,000	ditto ...	0 2 6	Kaliprasanna Ghosh, Dacca.	.....	8750
Apr., 5th	36	12mo ...	3rd ...	2,000	ditto ...	0 2 6	ditto ...	.....	8751
May, 14th	36	12mo ...	4th ...	2,000	ditto ..	0 2 6	ditto ...	.....	8752
Apr, 18th	56	12mo ...	6th ...	1,000	ditto ...	0 4 0	.....	.....	8753
„ 9th	12	12mo ...	32nd...	3,000	ditto ...	0 1 0	.....	.....	8754
May, 10th	12	12mo ...	33rd...	3,000	ditto ...	0 1 0	.....	.....	8755
Apr., 6th	48	12mo ...	3rd ...	1,000	ditto ...	0 4 0	.....	.....	8756
May, 2nd	148	12mo ...	14th...	2,000	ditto ...	0 12 0	.....	A well-known school-book. Many of the pieces have been translated from the Persian.	8757
„ 7th	42	12mo ...	3rd ...	1,000	ditto ...	0 3 0	.....	.....	8758
„ 10th	27	12mo ...	2nd ...	1,000	ditto ..	0 2 0	.....	.....	8759
Apr., 5th	44	12mo ...	2nd ...	3,000	ditto ...	0 2 0	Sánnkul Chandra Chatterji, Cornwallis Street, Calcutta.	.....	8760
Mar., 27th	44	12mo ...	46th...	10,000	ditto ...	0 2 0	Jadugopál Chatterji, 44, Amherst Street, Calcutta.	A well-known school book ...	8761
Apr, 3rd	72	12mo ...	32nd..	8,000	ditto ...	0 4 0	ditto ...	ditto ditto ...	8762
„ 15th	95	12mo ...	31st ...	5,000	ditto ...	0 8 0	ditto ...	ditto ditto ...	8763
„ 12th	68	12mo ...	2nd ...	4,000	ditto ...	0 4 0	Jádab Chandra Goswámi, Pubna.	ditto ditto ...	8764
„ 18th	86	12mo ...	12th...	1,000	ditto ..	0 6 0	Hari Charan Banerji, Culna.	ditto ditto ...	8765

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						BENGALI
	POETRY—*concluded.*					
8766	Kábya Kusum. Flower of Poetry.	Bengali	Akshaya Kumára Bidyábinod.	Poetry ...	Printed at 23, Jugal Kishor Das' Lane, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by U. C. Pál, and published by the Sanskrit Press Depository.
8767	Nitishikshá. Moral Instruction. Part I.	ditto ...	Ishán Chandra Raya Chaudhuri.	ditto ...	Printed and published at 46, Panchanantalá Lane, Calcutta.	Printed and published by Sányal and Co.
8768	Padyalatiká. The Creeper of Poetry. Part I.	ditto ...	Shambhunáth Datta.	ditto ...	Printed and published at the Mymensing Charu Press.	Printed and published by Umákánta Rakshit.
8769	Padyaprabesh. An Introduction to Poetry.	ditto ...	Jadunáth Pál...	ditto ...	Printed and published at the Dinagepore Sen Press.	Printed and published by Bankim Bihari Banerji.
8770	Saral Kabitá Mayi. Full of Easy Verses.	ditto ...	Harakishor Das	ditto ...	Printed at 5, Nilmádhab Sen's Lane, and published at Goalpara.	Printed by A. G. Sen and Co., and published by Hari Charan Das.
8771	Priyapátha. Beloved Lessons.	ditto ...	Rámchandra Chakrabarti.	ditto ...	Printed at 23-1, Beebu Chatterji's Street, and published at the Dacca Students' Library.	Printed by Jadunáth Sil, and published by the Dacca Students' Library.
8772	Ditto ditto ...	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
	RELIGION.					
8773	Mahabharata. Vol. 5. No. 39. (T.)	ditto ...	Translated by Rámsebak Bidyáratna.	Religion, H.	Printed and published at 92, Bowbazar Street, Calcutta.	Printed by Kisori Mohan Sen, and published by Aghornáth Barat.
8774	Ditto ditto. Vol. 5. No. 40. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8775	Ditto ditto. Vol. 5. No. 41. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	Printed and published by Aghornáth Barat.
8776	Ditto ditto. Vol. 5. No. 42. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	Printed by Kisori Mohan Gupta, and published by Aghornáth Barat.
8777	Ditto ditto. Vol. 5. No. 43. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8778	Ditto ditto. Vol. 5. No. 44. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8779	Ditto ditto. Vol. 8. (T.)	ditto ...	.....	ditto ..	Printed and published at 34-1, Colootola Street, Calcutta.	Printed and published by Biharilál Dás.
8780	Ramayan. Sapta Kánda. The Ramayana. Complete in seven books. (R.)	ditto ...	Krittibás ...	ditto ...	Printed at 323, Chitpore Road, and published at 40, Garanhata Street, Calcutta.	Printed by Tinkari Biswas, and published by Panchánan Ghosh.
8781	Prabháskhanda. The Story of Prabhása.	ditto ...	Mahesh Chandra De.	ditto ...	ditto ditto ...	ditto ditto ...
8782	Brihat Lakshmi Charitra. A large work on the Goddess of Wealth.	ditto ...	Baikuntha Nath Maji.	ditto ...	Printed and published at 117, Chitpore Road, Calcutta.	Printed and published by Trailokyanath Datta.
8783	Mahabharata. Swapnaparba. The Mahabharata. The Book of Dreams. (R.)	ditto ...	Kásirám Das...	ditto ...	ditto ditto ...	ditto ditto ...
8784	Dútí Sambád. A Conversation of the Female Messenger.	ditto ...	.....	ditto ...	ditto ditto ..	ditto ditto ...
8785	Bhaktitattwasár. The substance of the Nature of Bhakti.	ditto ...	.....	ditto ..	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889. April, 15th	Pages. 45	12mo dy	1st ...	500	Printed	Rs. A. P. 1 0 0	Akshaya Kumár Kábyabinod, 148, Baranasi Ghosh's Street, Calcutta.	In the preface the writer finds fault with the language, manner and matter of the most popular school-books in Bengali, with the Inspectors of Schools for allowing these books to be still used, and with the Central Text-book Committee, the members of which, he says, are masses of matter with a small quantity of life infused into them. There are pieces in prose also. The writer gives copious notes at the foot of each page in which he speaks very hard of modern Sanskrit scholarship.	8766
May, 4th	34	12mo dy	8th ...	8,000	ditto ...	0 2 0	Ishán Chandra Raya Chaudhuri, Mymensing.	.....	8767
April, 22nd	30	12mo dy	1st ...	2,000	ditto ...	0 2 0	Shambhunath Datta, Bakari, Mymensing.	Short poetical pieces suited to juvenile capacity.	8768
May, 19th	11	8vo dy...	1st ...	1,000	ditto ...	0 1 0	Jadu Nath Pál ...	Designed for educational purposes.	8769
April, 20th	24	12mo ...	1st ...	1,000	ditto ...	0 2 0	Hara Kishor Das, Goalpara.	ditto ditto ...	8770
Mar., 30th	68	12mo dy	7th ..	5,000	ditto ...	0 5 0	Ram Chandra Chakrabarti, Dacca.	ditto ditto ...	8771
May, 20th	72	12mo dy	8th ...	3,000	ditto ...	0 5 0	ditto ...	ditto ditto ...	8772
April, 22nd	48	8vo ...	1st ...	2,000	ditto ...	0 8 0	Aghornáth Barat 92, Bowbazar Street, Calcutta.	Goes on with the *Udjoga Parba*.	8773
„ 22nd	48	8vo ...	1st ...	2,000	ditto ...	0 8 0	ditto ...	ditto ditto ..	8774
„ 25th	48	8vo ...	1st ...	2,000	ditto ...	0 8 0	ditto ...	ditto ditto ...	8775
„ 25th	48	8vo ..	1st ..	2,000	ditto ...	0 8 0	ditto ...	ditto ditto ...	8776
„ 25th	48	8vo ...	1st ...	2,000	ditto ..	0 8 0	ditto ...	ditto ditto ...	8777
May, 5th	48	8vo ...	1st ...	2,000	ditto ..	0 8 0	ditto ...	ditto ditto ..	8778
„ 15th	650	8vo sprl.	1st ..	50,000	ditto ..	4 0 0	ditto ...	The *Udjoga*, *Drona* and *Bhishma parba* completed	8779
„ 15th	616	8vo rl ..	3rd ...	1,000	ditto ...	1 4 0	.....	.....	8780
Mar., 10th	304	12mo dy	2nd ..	1,000	ditto ..	1 14 0	Panchánan Ghosh.	.....	8781
April, 18th	58	8vo rl ...	10th...	3,000	ditto ...	0 4 0	Trailokyanath Datta.	The spread of the worship of the goddess of wealth, a description of the houses where the goddess dwells, and of those which she shuns, her quarrels with her co-wife the goddess of learning, &c.	8782
„ 22nd	30	12mo rl	Revised.	3,000	ditto ...	0 2 6	.....	An apocryphal chapter of the Mahábhárata, said to be a secret chapter of the work, and translated into Bengali by Káshirám Das. The author mentions a Bengali translation of the Bhágabat by Jagannath Dás which is not known to the public.	8783
„ 27th	48	12mo rl	do.	3,000	ditto ..	0 3 0	.....	Brindá goes to Mathura as the messenger of Rádhá and other milkmaids of Brindaban to bring back Krishna to them. He does not come, and the milkmaids are greatly chagrined at the change in his attitude towards them.	8784
„ 25th	60	12mo rl	do.	3,000	ditto ...	0 3 0	.....	Short poetical pieces in the Vaishnaba interest. Often noticed.	8785

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	RELIGION—*continued.*					BENGALI
8786	Muktálatábali. A Collection of Pearl Creepers.	Bengali	Durgáprasád Sharmá.	Religion H.	Printed and published at 117, Chitpore Road, Calcutta.	Printed and published by Trailokyanath Datta.
8787	Prabhás Khanda. The Story of Prabhás.	ditto ...	Ishwar Chandra Sarkár.	ditto ...	Printed at 54, Balarám De's Street, and published at 98-3, Chitpore Road, Calcutta.	Printed by Rákhál Chandra Das, and published by Ram Kánái Das.
8788	Brahma Baibartta Purána. A Purán describing the creation of the world from the evolution from Brahma. (T.)	ditto ...	Parán Chandra Das.	ditto ...	ditto ditto ...	ditto ditto ...
8789	Bhaktitáttwasar. The Substance of the Nature of Bhakti.	ditto ...	*.....	ditto ...	ditto ditto ...	ditto ditto ...
8790	Brihat Padma Purána A large Recension of the Padma Purána.	ditto ...	Mahes Chandra Das De.	ditto ...	ditto ditto ...	ditto ditto ...
8791	Shástrártha Samkalan. A collection of the precepts of the Hindu Scripture. Part I. (T)	ditto ...	G. C. Bhattácháryya.	ditto ...	Printed at the New Prákrita Press, Chitpore, and published at Jamtárá.	Printed by Rakhal Chandra Das, and published by Nirad Bihari Goswámi
8792	Ditto ditto. Parts II and III (together). (T).	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8793	Ditto ditto. Part IV. (T).	ditto ..	K. P. Bidyáratna and others.	ditto ...	ditto ditto ...	ditto ditto ...
8794	Ditto ditto. Part V. (T).	ditto ..	M. C. De and others.	ditto ...	ditto ditto ...	ditto ditto ...
8795	Ditto ditto. Part VI. (T).	ditto ...	W. N. Mitra and others.	ditto ...	ditto ditto ...	ditto ditto ...
8796	Ditto ditto. Part VII. (T).	ditto ...	P. C. Das and others.	ditto ...	ditto ditto ...	ditto ditto ...
8797	Haribansha. The Descendants of Hari. Parts I and II (together). (T).	ditto ...	B. M. Sarma ...	ditto ..	ditto ditto ..	ditto ditto ..
8798	Ditto ditto. Parts III and IV (together). (T).	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8799	Ditto ditto. Parts V and VI (together). (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8800	Ditto ditto. Parts VII and VIII (together). (T)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8801	Ditto ditto. Parts IX and X (together). (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	dittto ditto ...
8802	Ditto ditto. Parts XI and XII (together). (T.)	ditto ...	ditto ...	ditto ...	Printed at Ultadinghi, and published at Jámtára.	Printed by Banamáli Das, and published by Nirad Bihari Goswámi.
8803	Bhaktiratnákar. The Ocean of Devotion. Part VIII. (R.)	ditto ...	Narahari Chakrabarti.	ditto ...	Printed and published at Berhámpore.	Printed and published by Rám Náráyan Bidyáratna.
8804	Ditto ditto. Part IX. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8805	Ditto ditto. Part X. (R.)	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 24th	110	12mo rl	3rd ...	3,000	Printed	0 4 0	.....	Noticed	8786
May, 2nd	372	12mo rl	4th ...	1,000	ditto ...	1 0 0	Ram Kánái Das.	This is a very different work from the work of the same name noticed above. It treats of the career of Krishna at Brindaban, and Yasodá sees in a dream the advent of Chaitanya on earth.	8787
„ 8th	682	8vo rl ...	3rd ...	1,000	ditto ...	4 0 0	ditto ...	Metrical translation of a well-known Puránа.	8788
„ 3rd	60	12mo ...	Revised.	1,000	ditto ..	0 3 0	.....	.....	8789
„ 5th	152	8vo rl ...	4th ...	1,000	ditto ..	0 14 0	Ram Kánái Dás, Calcutta.	The work has been named Padmapurán, because the interlocutors are Nárada and Padmalochana, the Prince of Kushadwip, one of the seven islands which constitute the earth.	8790
April, 8th	600	8vo rl ...	1st ..	300	ditto ...	6 10 0	Nirada Bihari Goswámi, Jámtara.	This part contains a prose translation of the Joga Váshishtha.	8791
„ 15th	1,322	8vo rl ...	1st ...	300	ditto ...	13 4 0	ditto ..	Joga Váshishtha ends and Haribansha begins.	8792
„ 29th	391	8vo rl ...	1st ...	300	ditto ..	3 7 0	ditto ...	A metrical translation of the Jaimini Bhárat.	8793
„ 29th	152	8vo rl ..	1st ...	300	ditto ..	1 14 0	ditto ...	Contains Padmapurán, which is in every way identical with a work of the same name noticed above.	8794
May, 15th	1105	8vo rl ...	1st ...	300	ditto ...	9 8 0	ditto ...	A metrical translation of the whole of the Srímad Bhágabata.	8795
„ 20th	248	8vo rl ...	2nd ...	300	ditto ...	2 8 0	ditto ...	A metrical translation of the Kálikápurán.	8796
April, 23rd	76	4to ...	2nd ...	500	ditto ...	3 0 0	ditto ...	A prose translation of the Haribansha.	8797
„ 23rd	80	4to ...	2nd ...	500	ditto ...	3 0 0	ditto ...	ditto ditto ...	8798
„ 23rd	80	4to ...	2nd ...	500	ditto ...	3 0 0	ditto ...	ditto ditto ...	8799
„ 23rd	80	4to ...	2nd ...	500	ditto ...	3 0 0	ditto ...	ditto ditto ...	8800
„ 23rd	72	4to ..	2nd ...	500	ditto ...	3 0 0	ditto ...	ditto ditto ...	8801
„ 24th	120	4to ...	2nd ...	500	ditto ...	3 0 0	ditto ...	ditto ditto ...	8802
Mar., 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 8 0	... ..	Contains a glowing description of some of the early congregations of the Vaishnaba monks shortly after the disappearance of Chaitanya. The occasions for these congregations were the obsequies of Gadádhar Pandit at Cutwa, and the anniversary of the death of Narahari at Srikhand. They were both great favourites with Chaitanya.	8803
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 8 0	.....	Describes an assemblage of the monks in which the spirit of Chaitanya manifested itself, as well as the consecration of the temple at Khardaha by the wife of Nityánanda, who was second only to Chaitanya in the matter of preaching the new religion.	8804
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 8 0	.....	Srinibás, Narottam, and Shyámánanda, three great luminaries of the Vaishnava Church, in the generation which succeeded Chaitanya take a tour round Navadwipa with a view to see the places consecrated by the presence of Chaitanya.	8805

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	RELIGION—*continued.*					BENGALI
8806	Bhakti Ratnákar. The Ocean of Devotion. Part XI. (R.)	Bengali	Narahari Chakrabárti.	Religion, H.	Printed and published at Berhampore.	Printed and published by Rám Náráyan Bidyáratna.
8807	Ditto ditto. Part XII. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8808	Ditto ditto. Part XIII. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8809	Ditto ditto. Part XIV. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8810	Chaitanya Charitámrita. The Nectar of Chaitanya's works. Part IX. (R.)	ditto ...	Kirshna Das Kabiráj.	ditto ...	ditto ditto ...	ditto ditto ...
8811	Ditto ditto. Part X. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8812	Ditto ditto. Part XI. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8813	Ditto ditto. Part XII. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8814	Sukhámrita Grantha. A Book of the Nectar of Happiness.	ditto ...	Aditya Charan Dás.	ditto ...	Printed and published at 78, College Street, Calcutta.	Printed and published by Dwijendra Nath Pande.
8815	Sártattwa The Substance of Substances.	ditto ...	.....	ditto ...	Printed and published at 3, Beadon Square, Calcutta.	Printed by Biharilál Das, and published by Upendranath Mukharji.
8816	Haridáser Dharma Kathá. A Religious discourse by Haridas.	ditto ...	.....	ditto B. ...	Printed and published at 24, Beadon Street, Calcutta.	Printed and published by Manimohan Rakshit.
8817	Param Kalyán Gitá. The Most Auspicious Work in Verse. (T.)	ditto ...	Shibanáráyana Swámi.	ditto ...	Printed and published at 55, Chitpore Road, Calcutta.	Printed by Kalidás Chakrabarti, and published by Mohini Mohan Chatterji.
8818	Manohar Sáyi Brahma Sangita. Brahmo Songs in the tune made popular by Manohar Sháha.	ditto ...	Kisorilál Ráya	ditto ...	Printed and published at the Bogra Raya Press.	Printed by Binod Bihari Banerji, and published by the Author.
8819	Satya Náráyan. A Poem in Honour of Satya Náráyan.	ditto ...	Rádhánáth Mitra.	ditto H. ...	Printed at 147, Chitpore Road, and published at 9—1, Boccharám Chatterji's Lane, Calcutta.	Printed by Umesh Chandra Pal, and published by Sáradá Prasád Mukharji.
8820	Sri Srijuter Pada. The Songs by the Holy Lord.	ditto ...	.....	ditto ...	Printed at 2, Nawabdi Ostagar's Lane, and published at 6, Madan Mitra's Lane, Calcutta.	Printed by Pitambar Banerji, and published by Bhuban Mohan Ganguli.
8821	Dharmopahára. A Religious Offering.	ditto ...	Gobindachandra Mukharji.	ditto ..	Printed at 132, Maniktala Street, and published at Sthal Basantapore. Pubna.	Printed by Harihar Nandi, and published by Devendra Nath Pákrási.
8822	Bálir Pinda O Shiba Ramer Juddha. The Funeral Cake of Sand and the war between Shiva and Rám.	ditto ...	Lakshman Chandra Sharmanee.	ditto ...	Printed at 1, Garanhata Street, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Gobinda Chandra Datta, and published by Hridayalál Sil.
8823	Tantrasára. The Substance of the Tantras.	ditto ...	... ...	ditto ...	Printed and published at 100, Bowbazar Street, Calcutta.	Printed and published by B. C. Sarkár.
8824	Upadesha Kusum. The Flower of Counsels.	ditto ...	Girish Chandra Das.	litto ...	Printed and published at the Adarsha Press, Dacca.	Printed by Lachhman Basak, and published by Girish Chandra Das.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar., 22nd	80	8vo ...	1st ...	1,000	Printed	0 8 0	.....	The same subject continued ...	8806
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 8 0	.....	ditto ditto ..	8807
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 8 0	.....	The marriages of Srinibásh and Birabhadra the son of Nityánanda.	8808
„ 22nd	80	8vo ...	1st ..	1,000	ditto ...	0 4 0	.....	The festivities at Borakuli and the missionary work of Shyámánanda in Orissa.	8809
„ 22nd	80	8vo ...	1st ..	1,000	ditto ...	0 12 0	.....	With a running paraphrase in prose and with notes by Jagan Mohan Dás.	8810
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 12 0	.....	ditto ditto ...	8811
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 12 0	.....	ditto ditto ...	8812
„ 22nd	80	8vo ...	1st ...	1,000	ditto ...	0 12 0	.....	ditto ditto ...	8813
„ 20th	45	16mo dy	1st ...	250	ditto ...	0 2 0	Aditya Charan Dás, Sealdah.	A conversation on spiritual subjects between a worldly man and a mendicant. Devotion to God relieves man of all physical and mental pain, and brings him to perpetual happiness.	8814
April, 19th	12	12mo dy	1st ...	1,000	ditto ...	0 4 0	Upendra Nath Mukharji, Calcutta.	Written in the interest of Hindu orthodoxy, with the object of undervaluing Brahmoism, especially in its *Nababidhán* form.	8815
„ 27th	46	16mo dy	1st ...	1,000	ditto ...	0 2 0	.....	Written in the opposite interest. The writer makes a successful attempt to induce a Hindu gentleman to accept Brahmoism by pointing out the evils of idolatry of the caste system and so forth.	8816
May, 18th	314	8vo rl ...	1st ...	1,000	ditto ...	1 0 0	Shibnáráyana Swámi, Kalighát.	Translated from the Hindi. It is a defence of Hinduism in its higher and spiritual aspect, with suggestions for the reformation of certain social customs. Fire, sun, and the stars seem to be the principal objects of worship.	8817
June, 4th	32	12mo ...	1st ...	500	ditto ...	0 4 0	.....	The title explains the object of the work.	8818
Mar., 16th	23	12mo dy	2nd ...	1,200	ditto ...	0 2 0	Surya Kumár Mukharji, 21 Sankar Haldar's Lane, Calcutta.	ditto ditto ...	8819
April, 6th	64	8vo ...	1st ...	1,000	ditto ...	0 8 0	Bhuban Mohan Ganguli, 6, Madan Mitra's Lane, Calcutta.	Songs of the "Kartábhajá" sect of Vaishnabas published with the permission of the late Ishwar Chandra Pál, of Ghoshpara, the headman of the sect.	8820
Mar., 28th	26	12mo dy	1st ...	500	ditto ..	0 1 0	Devendranáth Pákrási, Sthal Basantapore, Pubna.	The writer thinks that Western education is undermining the foundations of Hindu religion and Hindu orthodoxy, which Islam and Buddhism could not shake; but he thinks that the eyes of the Hindus have been opened, and that they are in a position to counteract those foreign influences by a study of the past history of their religion.	8821
May, 25th	23	12mo rl	5th ...	1,000	ditto ...	0 2 0	Hridayalal Sil, Calcutta.	Noticed	8822
April, 16th	20	12mo dy	1st ...	2,000	ditto ...	0 4 0	B. C. Sarkár, 16, Madan Datta's Lane, Calcutta.	The principles of *Tantric* cult explained in Bengali.	8823
„ 2nd	12	12mo ...	1st ...	1,000	ditto ..	0 1 0	.....	The sayings of Buddha, Kabir and other great reformers.	8824

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	RELIGION—*continued.*					BENGALI
8825	Chakra Chintámani. The Jewel of thoughts composed of Discs.	Bengali	Durgácharan Tarkaratna.	Religion, H.	Printed and published at the Adarsha Press, Dacca.	Printed by Lachhman Basak, and published by Harimohan Banerji.
8826	Chaitanya Charitámrita Grantha. The Nectar of the Life of Chaitanya. (R.)	ditto ...	Krishnadás Kabiráj.	ditto ..	Printed at 1, Nimu Gosain's Lane, and published at 1, Garanhata Street, Calcutta.	Printed by Mákhanlál Ghosh, and published by Ganesh Chandra Ghosh.
8827	Adhyátma Rámáyana. The Spiritual Rámáyana, Nos. 13, 14 and 15 (together). (T.)	ditto ...	Baláichánd Goswámi.	ditto ..	Printed at 63-3, Mechua Bazar Road, and published at 74, Balaram De's Street, Calcutta.	Printed by Gopál Chandra Niyogi, and published by Dwárakanáth Chandra & Co.
8828	Brahman Ke? Who is a Brahman.	ditto ...	Hárádhan Mukharji.	Religion, C.	Printed and published at 22, Old Baitakkhana 2nd Lane, Calcutta.	Printed and published by Ramanáth Ghosh.
8829	Nitiratna. The Jewel of Good Advice.	ditto ...	Nabaraj Barua.	Religion, Buddha.	Printed and published at Chittagong.	Printed and published by Rám Gobinda Chakrabarti.
8830	Jishu Nám Madhur Nám. The Sweet Name of Jesus.	ditto ...	G. H. Rouse ...	Religion, C.	Printed at the Baptist Mission Press, and published at 23, Chowringhee Road, Calcutta.	Printed by G. H. Rouse, and published by the C. T. and B. Society.
8831	Kichhutei Punya Nái. Merit in Nothing.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8832	Dhanákar. The Mine of Wealth.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8833	Pátakí Táran. The Saviour of Sinners.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8834	Tulsí. The Tulsi plant	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8835	Ishwar Amáder Pitá. God is our Father.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8836	Bidhabár Prati Ishwarer Dayá. God's Mercy to the Widow.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8837	Putra Shok. The Death of a Child.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8838	Aksmát Bajrágháta. The Sudden Lightning Stroke.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8839	Shibá Desher Rání. The Queen of Sheba.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8840	Luthia. Lydia, the Purple-Seller.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8841	Kshudhá o Pipásá. Hunger and Thirst.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8842	Swarga O Swarger Path, Heaven and the Way there.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8843	Agnibrishti. Fire Rained from Heaven.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
June, 8th	18	8vo ...	1st ...	150	Printed	0 3 0	.....	The substance of Purnánanda's Sanskrit work on the subject of the six discs which connect,	8825
according to the Tantric theory, the system of veins in the human body. The nature of these discs and the system of *nárís* or veins have been explained in this work.									
April, 1st	354	8vo rl ...	Revised.	2,000	ditto ...	1 6 0	.....	Often noticed	8826
Mar., 6th	144	8vo dy...	1st ...	1,050	ditto ...	0 4 0	Dwárakánáth Chandra.	A new translation of the Adhyátma Ramayan spoken by Shiba to Durgá.	8827
April, 5th	12	12mo dy	1st ...	1,000	ditto ...	.....	A. C. Mukharji, Dihi Serampore Road, Calcutta.	The writer thinks that the Brahmans are the descendants of Israel. They invariably use the word *Shrila* before writing their names. But the word	8828
Shrila is the same as *I-shraela*. The word Brahmana is simply another form of Abraham, from whom the writer thinks both the Jews and the Brahmans are descended.									
Mar., 4th	12	6mo dy	1st ...	500	ditto ..	0 1 0	Nabaraj Barua, Uttara Bhunsi.	Certain sayings of the Dhammapada rendered into Bengali prose.	8829
April, 3rd	4	12mo dy	2nd ...	5,000	ditto ...	.....	C. T. and B. Society, 23, Chowringhee Road, Calcutta.	The meaning of the term Jesus Christ is one who is engaged in saving others. It is a sweet name. Jesus is conquering the whole world and spreading His religion at the expense of the false religions of the world.	8830
„ 3rd	8	12mo dy	3rd ...	5,000	ditto ...	.....	ditto ...	The only means for salvation is faith in Christ. Those who think that merit can save them are wrong.	8831
„ 3rd	4	12mo dy	2nd ...	5,000	ditto ...	.....	ditto ...	To those who put their faith in Christ, He is the highest wealth.	8832
„ 3rd	4	12mo dy	5th ...	5,000	ditto ...	.....	ditto ...	....	8833
„ 3rd	4	12mo dy	3rd ...	5,000	ditto ...	.....	ditto ...	The plant *tulsi* is a special	8834
favorite with Vishnu, and therefore it is an object of worship. The writer objects to the worship of trees. Put faith in Jesus, he says, and you will be saved.									
„ 3rd	4	12mo ...	4th „	5,000	ditto ...	.....	ditto ..	.....	8835
„ 3rd	4	12mo dy	5th ...	5,000	ditto ...	.....	ditto ...	.....	8836
„ 3rd	4	12mo dy	4th ...	5,000	ditto ...	.....	ditto ...	.....	8837
„ 3rd	4	12mo dy	5th ...	5,000	ditto ...	.....	ditto ...	.....	8838
Mar., 5th	4	16mo do	1st ...	10,000	ditto ...	.....	ditto ...	The Queen of Sheba came to Solomon to learn wisdom, both	8839
spiritual and material. She came with valuable presents. The Bengali ladies should go to a greater Being, the son of God, who scorns all presents. He is not distant: believe in Him and He is present before you.									
„ 5th	4	16mo do	1st ...	10,000	ditto ...	.....	ditto ...	Bengali ladies should hear the Gospel with attention as did Lydia, the purple-seller, who, on hearing the good news, put faith in it, and was saved.	8840
May, 6th	4	16mo do	1st ...	15,000	ditto ...	.....	ditto ...	The soul has its hunger and its thirst for peace and happiness, and that happiness can be obtained by putting faith in Christ.	8841
„ 6th	4	16mo do	1st ...	15,000	ditto ...	.....	ditto ...	The Hindus, the Musalmans all long for heaven: but this heaven is a place of material enjoyment. That is not true heaven. It can be reached only by putting faith in Christ.	8842
„ 9th	4	...	1st ...	15,000	ditto ...	.....	ditto ...	The story of the burning of Sodom and Gomorrha and the lessons to be derived from it.	8843

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						BENGALI
	RELIGION—*concluded.*					
8844	Belun O Belun Báj Sháheb. The Balloon and the Balloonist.	Bengali	G. H. Rouse ...	Religion C.	Printed at the Baptist Mission Press, and published at 23, Chowringhee Road, Calcutta.	Printed by G. H. Rouse, and published by the C. T. and B. Society.
8845	Kon Shástra Mánaniya? What Scriptures should be regarded?	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8846	Mathi Likhita Susamáchár. The Gospel of St. Matthew. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	Printed by G. H. Rouse, and published by the Calcutta A. B. Society.
8847	Ki Janya O Kirupe Shástra Path Karite Haya. Why and how to read the Scriptures.	ditto ...	ditto ...	ditto ...	Printed and published at the Baptist Mission Press, Calcutta.	Printed by G. H. Rouse, and published by the Scripture Union.
8848	Káti Kijam. Catechism	ditto ...	Right Reverend F. Pozzi, Bishop of Kishnagore.	ditto	Printed and published at Jessore.	Printed by Kshetra Gopál Sinha, and published by the Author.
8849	Eslám Tattwa. The substance of Islam.	ditto ...	M. R. Ahmed and Shaikh A. Rahim.	Religion, M.	Printed at 63-3, Mechua Bazar Street, and published at 79, Old Baitakkhana Bazar Street, Calcutta.	Printed by Gopál Chandra Niyogi, and published by Shaham Shah and Co.
	SCIENCE (MATHEMATICAL). *The following works are designed for educational purposes.*					
8850	Kshetratattwa. Geometry. Book I.	ditto ...	Mohan Chandra Basák.	Science (Mathematical).	Printed and published at 8, Dixon's Lane, Calcutta.	Printed and published by B. L. Chakrabartti.
8851	Jyámitir Atirikta Samádhán. Solution of Geometrical Exercises.	ditto ...	Nibáran Chandra Ghosh.	ditto ...	Printed at 21, Sitáram Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by Shashi Bhushan Datta, and published by the Som Prakásh Depository.
8852	Mánasik Gananá. Mental Arithmetic.	ditto ...	Dinanath Sen .	ditto ..	Printed at 23-1, Bechu Chatterji's Street, Calcutta, and published at Gendiroa, Dacca.	Printed by Jadunath Sil, and published by Girish Chandra Sen.
8853	Chalitánka. The Current Arithmetic.	ditto ...	Madhusudan Bhattácháryya.	ditto ...	Printed at 8, Srináth Babu's Lane, Calcutta, and published at Raghunathganj.	Printed by Sarat Chandra Chatterji, and published by the Author.
8854	Shubhankari. Indigenous Bengali Arithmetic.	ditto ...	Nilmani Sil ...	ditto ...	Printed at 339, Upper Chitpur Road, Calcutta, and published at Panihati.	Printed by Káliprasanna Ráya, and published by Nilmani Sil.
8855	Shubhankari Dhárápat. Indigenous Arithmetical Tables.	ditto ...	ditto ...	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 108, Chitpur Road, Calcutta.	Printed by Káliprasanna Ráya, and published by Sarat Chandra Bhattácháryya.
8856	Dhárápat Shubhankari Samet. Arithmetical Tables with Shubhankari.	ditto ...	.....	ditto ...	Printed at 333, and published at 118, Upper Chitpur Road, Calcutta.	Printed by Binod Bihári Sil, and published by Baishnab Charan Basák.
8857	Nutan Dhárápat. New Arithmetical Tables.	ditto ...	Abalá Kánta Sen.	ditto ...	Printed and published at 66, Beadon Street, Calcutta.	Printed and published by Chandi Charan Ráya.
8858	Sachitra Dhárápát. Illustrated Arithmetical Tables.	ditto ...	Sarach Chandra Sil.	ditto ...	Printed and published at 99, Ahiritolá Street, Calcutta.	Printed and published by Nritya Lál Sil.
8859	Shishu Dhárápát. Arithmetical Tables for Children.	ditto ...	.....	ditto ...	Printed at 2, Tárak Chatterji's Lane, and published at 115, Chitpur Road, Calcutta.	Printed by Naba Kumár Basu, and published by Umesh Chandra Bhattácháryya.
8860	Saral Pátiganit. Easy Arithmetic.	ditto ...	P. Ghosh ...	ditto ...	Printed and published at 28, Convent Road, Intali.	Printed and published by Dwárakánath Nandan.
8861	Anka Sutra Pratham Bhág. The Elements of Mathematics. Part I.	ditto ..	Káshi Chandra Guha.	ditto ...	Printed and published at the Syamantak Press, Dacca.	Printed by Gopináth Basak, and published by Káshi Chandra Guha.

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BOOKS—continued.									
1889. May 5th	Pages, 4	16mo do	1st ...	15,000	Printed	Rs. A. P.	C. T. and B Society, 23, Chowringhee Road, Calcutta.	The balloonist can rise to the height of about 3 or 4 miles: but two men went to heaven in person and Jesus too went there. He will return with the whole host of angels, the dead will come to life, and he will take them to heaven.	8844
April, 3rd	8	12mo dy	10th..	5,000	ditto ...	.....	ditto ..	.....	8845
May, 9th	82	16mo do	New	20,00	ditto ..	.....	ditto ...	A new translation in improved Bengali.	8846
Mar., 26th	4	8vo rl ...	1st ...	1,000	ditto ...	.....	Revd. W. Carey, Baptist Mission Press, Calcutta.	They should be read with eagerness, with regularity, with care, and with a devout heart.	8847
April, 28th	14	dy ..	1st ...	...	ditto ...	.....	Right Reverend F. Pozzi, Bishop of Krishnagore.	The Roman Catholic Catechism in Bengali.	8848
Mar., 18th	124	8vo dy..	2nd ...	1,010	ditto ..	0 12 0	M. R. Ahmed and Abdur Rahim.	Noticed in the Catalogue for the 4th quarter of 1888.	8849
Mar., 26th	171	12mo ...	9th...	3,000	ditto ..	0 8 0	Mohan Chandra Basák, Dacca.	.....	8850
May, 18th	102	12mo dy.	1st ..	1,000	ditto ...	0 5 0	Durgá Charan Rá-ya, 54, College Street, Calcutta.	.....	8851
April, 10th	68	16mo rl.	6th..	10,000	ditto ..	0 3 0	Dinanáth Sen, Dacca.	.....	8852
„ 10th	178	12mo dy.	5th	4,000	ditto ...	0 5 0	Madhusudan Bhattácháryya, Raghunáthganj.	.....	8853
June, 4th	116	12mo dy.	1st ...	1,000	ditto ...	0 8 0	Nilmani Sil, Panihati, 24-Pergunnahs.	.....	8854
May, 1st	32	12mo dy.	Revised.	1,000	ditto ...	0 1 0	Sarat Chandra Bhattácháryya, Calcutta.	.....	8855
„ 21st	37	12mo rl.	6th...	1,000	ditto ...	0 1 0	Baishnab Charan Basák, Calcutta.	.....	8856
Mar., 9th	32	12mo rl	1st ...	3,000	ditto ...	0 1 0	Abalá Kánta Sen, 50, Baranasi Ghosh's Street, Calcutta.	....	8857
„ 6th	30	16mo ...	12th..	6,000	ditto ...	0 1 0	.....	.....	8858
April, 24th	22	12mo rl.	3rd ...	1,000	ditto ..	0 1 0	Umesh Chandra Bhattácháryya, Calcutta.	.....	8859
Mar., 25th	336	16mo ...	New..	3,000	ditto ...	0 12 0	P. Ghosh, 28, Convent Road, Entally.	.....	8860
„ 27th	28	12mo ...	1st ...	1,000	ditto ...	0 1 6	.....	.....	8861

1	2	3	4	5	6	
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	SCIENCE (MATHEMATICAL)—*concluded.*					
8862	Pratham Shikshá Ganit Arithmetic for Beginners.	Bengali	Hari Charan Bhattácháryya.	Science (Mathematical).	Printed and published at the Syamantak Press, Dacca.	Printed by Gopináth Basak, and published by Kúshi Chandra Guha.
8863	Nutan Dhárápát. New Arithmetical Tables.	ditto ...	Kailásh Chandra Biswás.	ditto ...	Printed and published at Tangail, Mymensing.	Printed by Sádhu Sarkár, and published by Chandra Kumár Lahirí.
8864	Sulabh Dhárápát. Easy Arithmetical Tables.	ditto ...	Prasanna Kumár Batabyál	ditto ...	Printed and published at Kumillá.	Printed and published by Nilámbar Datta.
	SCIENCE (NATURAL AND OTHER)					
8865	Kitkautuk. Entertaining account of worms.	ditto ...	Mahesh Chandra Tarkabágish.	Science (Natural and other.)	Printed and published at 6, Balaram De's Street, Calcutta.	Printed and published by H. M. Mukharji and Company.
	The following works are designed for educational purposes.					
8866	Prakriti Bijnáner Prashnottar. A Catechism of Prakriti Bijnán.	ditto ...	Abalá Kánta Sen.	ditto ...	Printed and published at 66, Beadon Street, Calcutta.	Printed and published by Chandi Charan Náya.
8867	Padártha Bidyá Bishayak Prashnottar. A Catechism of Natural Science.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8868	Prákritik Bhugoler Prashnottar. A Catechism of Physical Geography. Part I.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8869	Saral Padártha Bijnáner Prashnottar. Part I. A Catechism of Saral Padártha Bijnán.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8870	Bijnán Prabesh. Introduction to Science.	ditto ...	Krishna Chandra Banerji.	ditto ...	Printed at 24, Beadon Street, and published at 64, College Street, Calcutta.	Printed by Mani Mohan Rakshit, and published by Dás Gupta and Company.
8871	Sharir Pálan. Preservation of Health.	ditto ...	Jadunath Mukharji.	ditto ...	Printed at Ranaghát, and published at Calcutta.	Printed by Lakshmi Náráyan Dás, and published by the Sanskrit Press Depository.
8872	Saral Sharir Pálan. An Easy Work on Preservation of Health.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
8873	Ditto ditto ..	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8874	Prákritik Bhugol. Physical Geography.	ditto ...	Raya Rádhiká Prasanna Mukharji Bahadur.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 143, Baranasi Ghosh's Street, Calcutta.	Printed by Jadu Nath Sil, and published by the Sanskrit Press Depository.
8875	Swásthya-rakshá Prabeshiká. Introduction to Principles of Hygiene.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
8876	Samkshipta Padártha Darshan. A Short Treatise on Natural Science.	ditto ...	Mahendra Náth Bidyáranya.	ditto ...	ditto ditto ...	ditto ditto ...
8877	Sachitra Bijnán Prabesher Prashnottar. A Catechism of Sachitra Bijnán Prabesh.	ditto ...	Bipin Chandra Sen.	ditto ...	Printed and published at 5, Nilmádhab Sen's Lane, Calcutta.	Printed and published by A. G. Sen and Company.
8878	Bijnán Prabesher Prashnottar. A Catechism of Bijnán Prabesh.	ditto ...	Mrigánkadhar Rayá Chaudhuri.	ditto ...	Printed at 63-3, Mechuabazar Road, and published at 64, College Street, Calcutta.	Printed by Gopál Chandra Niyogi, and published by Das Gupta and Company.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 15th	24	12mo ..	2nd ..	2,000	Printed	0 1 6	.....	.....	8862
May, 2nd	62	12mo ...	3rd ..	2,000	ditto ...	0 2 6	Kailásh Chandra Biswás, Pathrail.	.....	8863
April, 20th	20	12mo ..	1st ..	2,000	ditto ...	0 0 6	.....	.....	8864
,, 7th	75	12mo dy	1st ...	500	ditto ...	0 8 0	Mahesh Chandra Tarkabágish. Mánkar.	A short treatise on the silkworm of India.	8865
Mar., 13th	99	12mo rl	1st ...	1,000	ditto ...	0 6 0	Abalá Kánta Sen, 50, Baranasi Ghosh's Street, Calcutta.	.....	8866
Feb., 25th	134	12mo rl	1st ..	1,000	ditto ..	0 6 0	ditto ...	.....	8867
,, 21st	87	12mo rl	1st ...	1,000	ditto ..	0 6 0	ditto ...	.....	8868
,, 22nd	68	12mo rl	1st ...	1,000	ditto ...	0 4 0	ditto ...	.....	8869
April, 25th	98	12mo dy	2nd ..	6,000	ditto ...	0 6 0	.....	.....	8870
,, 1st	126	12mo rl	25th...	5,000	ditto ...	0 4 0	Jadunath Mukharji, Ránághat.	.....	8871
,, 1st	42	12mo dy	32nd	10,000	ditto ...	0 1 0	ditto ...	.....	8872
May, 28th	42	12mo dy	33rd...	10,000	ditto ...	0 1 0	ditto ..	.....	8873
Mar., 25th	144	12mo dy	25th...	6,000	ditto ..	0 6 0	Raya Rádhiká Prasanna Mukharji Bahadur, 30, Bechu Chatterji's Street, Calcutta.	.....	8874
April, 7th	48	12mo dy	11th .	3,000	ditto ...	0 2 0	ditto ..	.....	8875
Mar., 30th	84	12mo dy	8th ...	3,000	ditto ...	0 4 0	Mahendra Náth Bidyáranya, Calcutta.	.....	8876
May, 4th	68	12mo ...	1st ...	3,000	ditto ...	0 8 0	A. G. Sen, and Company.	.....	8877
April, 27th	38	12mo dy	1st ...	1,000	ditto ...	0 4 0	Mrigánkadhar Ráya Chaudhuri.	.....	8878

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	SCIENCE (NATURAL AND OTHER)—*concluded.*					
8879	Bhúbidyá Arthát Prákritik Bhúgoler Prashnottar. A Catechism of Bhubidyá.	Bengali	Kunja Bihári Banerji.	Science (Natural and other.)	Printed at 84, Rájá Rajballabh's Street, and published at 176H—17, Chitpore Road, Calcutta.	Printed by Naba Kumár Basu, and published by Kunja Bihari Banerji.
8880	Bijnán Prabesher Prashnottar. A Catechism of Bijnán Prabesh.	ditto ...	Akshahya Kumár Chattopadhyáya.	ditto ...	Printed and published at Barisal.	Printed and published by Hara Kumár Kar.
8881	Baijnánik Prashnottar. A Catechism of Science.	ditto ...	Madhu Sudhan Sen.	ditto ...	Printed and published at the Dacca Press, Dacca	Printed by Digambar Dás, and published by Braja Das Bairági.
8882	Bijnán Prabesher Prashnottar. A Catechism of Bijnán Prabesha.	ditto ...	Prasanna Ghosh.	ditto ...	Printed and published at the Raghunath Press, Dacca.	Printed by Nanda Kisor Basák, and published by Prasanna Ghosh.
8883	Bhubidyár Prashnottar. A Catechism of Bhubidyá.	ditto ...	Káli Kumár Gángopádhyáya.	ditto ...	ditto ditto ...	Printed by Nanda Kisor Basák, and published by Káli Kumár Gángopadhyáya.
8884	Bijnán Prabesher Nirdishta Páthyer Prashnottar. A Catechism of the portion of Bijnan Prabesh selected for examination.	ditto ..	Srinath Pál ...	ditto ...	Printed and published at the Oriental Press, Dacca.	Printed and published by Rám Chandra Banik.
8885	Bijnán Prabesher Prashnottar. A Catechism of Bijnan Prabesh.	ditto ...	Dwáraká Nath Chakrabartti.	ditto ...	ditto ditto ..	Printed by Rám Chandra Banik, and published by Jogesh Chandra Chakrabartti.
8886	Saral Sharir Pálanar Artha O Prashnottar. A key to, and Catechism of, Saral Sarir Pálan.	ditto ...	Kunja Bihari Náth.	ditto ...	Printed and published at the Syámantak Press, Dacca.	Printed and published by Gopináth Basak.
8887	Saral Sharir Pálaner Prashnottar Sahit Byákhyá Pustak. A key to, and Catechism of, Saral Sarir Pálan.	ditto ...	Jagabandhu De.	ditto ...	Printed and published at the Girish Press, Dacca.	Printed by Kalimuddin, and published by Jagabandhu De.
						ENGLISH
	ART.					
1954	Cossipore Artillery Volunteers' Manual.	English	Lieut.-Colonel R. Wace.	Art ...	Printed at Thacker, Spink and Company's Press, and published at 5, Government Place, Calcutta.	Printed and published by Thacker, Spink and Company.
	FICTION.					
1955	Magaret Beresford and Her Lovers.	ditto ...	Miss Alice Lemarchand.	Fiction ...	Printed at 300, and published at 296, Bowbazar Street, Calcutta.	Printed by Cones and Company, and published by the Royal Publishing Company, Limited.
	HISTORY (INCLUDING GEOGRAPHY).					
	The following works are designed for educational purposes.					
1956	An Epitome of English History.	ditto ...	Upendra Náth Mukharji.	History ...	Printed and published at 17, Srináth Das's Lane, Calcutta.	Printed and published by A. L. Ghosh.
1957	A Brief Outline History of England.	ditto ...	Chandra Kánta Basu.	ditto ..	Printed and published at the Syamantak Press, Dacca.	Printed by Pratáp Chandra De, and published by Nilkantha Basu.
1958	A Faithful Sketch of English History.	ditto ...	.....	ditto ...	Printed at the New Bálmiki Press, and published at 14, Sankar Ghosh's Lane, Calcutta	Printed by U. C. Pál, and published by Sarat Chandra Bhadra.
1959	The Examinee's History of England.	ditto ...	Bhut Náth Bháduri.	ditto ...	Printed at 300, Bowbazar Street, and published at the Metropolitan Institution, Balakhana Branch.	Printed by Cones and Company, and published by the Author.

Quarter ending 30th June 1889—continued.

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BOOKS—concluded									
1889.	Pages.					Rs. A. P.			
May, 8th	75	12mo dy	1st ...	1,000	Printed	0 4 0	Kunja Bihari Banerji, 176H —17, Chitpore Road, Calcutta.	A catechism	8879
June, 3rd	72	9×5 ...	1st ...	500	ditto ...	0 3 0	.. ...	ditto	8880
May, 12th	31	12mo dy	1st ...	1,000	ditto ...	0 6 0	.....	ditto	8881
„ 11th	43	12mo ...	1st ...	1,000	dit'o ...	0 6 0	...	ditto	8882
„ 2nd	45	12mo dy	1st ...	1,000	ditto ...	0 6 0	.....	ditto	8883
„ 8th	36	12mo ...	1st ...	1,000	ditto ...	0 6 0	.....	ditto	8884
„ 7th	72	12mo ...	1st ..	1,000	ditto ...	0 10 0	.....	ditto	8885
April, 15th	36	12mo ...	1st ...	2,000	ditto ...	0 3 0	.....	ditto	8886
Feb., 28th	33	12mo ...	3rd ...	4,000	ditto ...	0 2 0	.....	ditto	8887
BOOKS.									
1889.									
May, 29th	233	12mo dy	1st ...	300	ditto ...	2 0 0	Lieut.-Colonel R. Wace.	.....	1954
Mar., 15th	68	12mo rl	1st ...	1,000	ditto ...	1 0 0	Miss Alice Lemarchand.	.....	1955
May, 15th	225	12mo dy	2nd ...	1,000	ditto ..	0 12 0	Shaik Brothers, 55, College Street, Calcutta.	.....	1956
April, 15th	234	12mo ...	1st ...	1,000	ditto ..	0 10 0	.. ...	.....	1957
„ 10th	76	12mo dy	1st ...	1,000	ditto ...	0 8 0	Sarat Chandra Bhadra, 14, Sankar Ghosh's Lane, Calcutta.	.....	1958
„ 22nd	92	8vo dy	1st ...	1,000	ditto ...	0 10 0	Bhut Nath Bhâduri.	.....	1959

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						ENGLISH
	HISTORY (INCLUDING GEOGRAPHY)—*concld.*					
1960	A Catechism and Sketch of English History.	English	Rajendra Chandra Banerji.	History ..,	Printed and published at Serampore.	Printed by Ganguli & Co. and published by Rajendra Chandra Banerji.
1961	A Catechism of English History.	ditto ..	Abalá Kánta Sen.	ditto ..	Printed and published at 66, Beadon Street, Calcutta.	Printed by Chandi Charan Ráya, and published by the Author.
1962	A Catechism of Indian History.	ditto ..	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
1963	An Abridgment of the History of India.	ditto ...	Abdul Karim...	ditto ...	Printed and published at 43, Chunam Gulli, Calcutta.	Printed and published by N. C. Chakrabartti.
1964	Students' Companion to the History of India.	ditto ...	G. C. Mitra, M.A.	ditto ...	Printed at 78, and published at 55, College Street, Calcutta.	Printed by Dwijendra Náth Páre, and published by Asutosh Ghoshal & Co.
1965	A Concise Epitome of the History of India.	ditto ...	P. Gupta ...	ditto ...	Printed and published at 153, Cornwallis Street, Calcutta.	Printed by G. C. Chakrabartti, and published by G. C. Chakrabartti & Co.
1966	Questions on Indian History.	ditto ..	Upendra Náth Mukharji.	ditto ...	Printed at Uttarpara, and published at 55, College Street, Calcutta.	Printed by Shashi Bhushan Ghosh, and published by Shaik Brothers & Co.
1967	Outline of the History of Bengal. (R.)	ditto ...	J. C. Marshman, C.S.I.	ditto ..	Printed at 22-2, Jhamapukur Lane, and published at 54-1, College Street, Calcutta.	Printed and published by Baradá Prasád Majumdár.
1968	An Elementary General Geography.	ditto ...	Annadá Charan Sen.	ditto ...	Printed and published at the Adarsha Press, Dacca.	Printed by Lachman Basák, and published by Annadá Charan Sen.
1969	The First Geography ...	ditto ...	H. Blochmann, M.A.	ditto ...	Printed at the Baptist Mission Press, and published at 7, Dacre's Lane, Calcutta.	Printed by J. W. Thomas, and published by the Calcutta School-book Society.
	LANGUAGE.					
	The following works are designed for educational purposes.					
1970	A Junior English Grammar.	ditto ...	D. N. Basu ...	Language	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Báránasi Ghosh's Street, Calcutta.	Printed by Jadu Náth Sil, and published by the Sanskrit Press Depository.
1971	First Book	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1972	Practical English Composition.	ditto ..	Umá Charan Ghosh.	ditto ...	Printed and published at Barisal.	Printed by Hara Kumár Kar, and published by Umá Charan Ghosh.
1973	A Catechism of Elementary English Grammar.	ditto ...	James A. Leary	ditto ...	Printed and published at the Victoria Press, Cuttack.	Printed and published by Abhin Náyak.
1974	Macaulay's Lord Clive. (R.)	ditto ...	Edited by Asutosh Mitra.	ditto ...	Printed at 78, Amherst Street, and published at 79, Cornwallis Street, Calcutta.	Printed by Ambiká Charan Shom, and published by the Star Depository.
1975	Essays written in the intervals of business. (R.)	ditto ...	Edited by Nagendra Nath Mukharji.	ditto ...	Printed at 6, Simla, Street, and published at 64, College Street, Calcutta.	Printed by P. C. Shaha, and published by H. B. Mukharji & Co.
1976	Notes on Grant's Xenophon.	ditto ...	P. K. Lahiri, M.A.	ditto ...	Printed at 108, Báránasi Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by Nabin Chandra Pal, and published by S. K. Lahiri & Co.
1977	Notes on Helps' Essays	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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BOOKS – continued.									
1889.	Pages.					Rs. A. P.			
Mar., 25th	100	8vo dy...	1st ..	1 000	Printed	0 8 0	Ganguli & Co., Máhes.	.....	1960
„ 6th	178	12mo rl	1st ...	1,000	ditto ..	0 10 0	Abalá Kánta Sen, 50, Báránasi Ghosh's Street, Calcutta.	.....	1961
„ 18th	106	12mo rl	3rd ...	2,000	ditto ..	0 8 0	ditto ...	.. ..	1962
April, 26th	77	8vo dy...	1st ...	1,000	ditto ...	0 10 0	Abdul Karim, 30, Lower Chitpore Road, Calcutta	... .	1963
Mar., 16th	120	12mo dy	1st ...	2,000	ditto ...	0 10 0	Asutosh Ghoshál & Co., 55, College Street, Calcutta.	.....	1964
June, 3rd	120	12mo dy	1st ..	.....	ditto ...	0 8 0	P. Gupta, 13, Nebutala Lane, Calcutta.	.....	1965
Mar., 30th	141	12mo dy	3rd ...	1,000	ditto ...	0 12 0	Shaik Brothers & Co., 55, College Street, Calcutta.	.....	1966
„ 20th	213	16mo ...	3rd	500	ditto ...	1 0 0	Baradá Prasád Majumdár, 22-2, Jhamapukur Lane, Calcutta.	.....	1967
April, 10th	116	12mo ..	1st ..	1,000	ditto ...	0 8 0	.....	.....	1968
„ 25th	48	12mo dy	Revised.	5,000	ditto ...	... ..	Calcutta School-book Society, 7, Dacre's Lane, Calcutta.	A well-known work ...	1969
Mar., 27th	240	16mo d f cap.	4th ...	5,000	ditto ...	0 4 0	Dwáraká Náth Basu, Barackpore.	Designed for the use of students of middle class English schools in India, who find it difficult to understand grammars written in England for the use of boys whose mother-tongue is English.	1970
April, 6th	64	16mo d f cap.	2nd ..	3,000	ditto ...	0 3 0	ditto	In this book attempts have been made to give the different sounds of vowels, diphthongs and consonants as clearly as possible by indicating their sounds in Bengali.	1971
„ 29th	143	12″×6″	2nd ...	2,000	ditto ...	0 9 0	.....	.....	1972
„ 10th	35	16mo f cap.	1st ...	1,000	ditto ..	0 2 0	.....	.....	1973
„ 30th	84	12mo dy	1st ...	1,000	ditto ...	0 4 0	Asutosh Mitra, 78, Amherst Street, Calcutta.	.....	1974
May, 10th	230	16mo crown	1st ..	1,000	ditto ...	1 6 0	H. B. Mukharji & Co., 64, College Street, Calcutta.	A key	1975
„ 12th	72	12mo dy	1st ...	1,500	ditto ...	0 10 0	Prasanna Kumar Lahiri, 91, Balaram De's Street, Calcutta.	ditto	1976
„ 2nd	105	12mo ...	1st ...	1,500	ditto ..	0 10 0	ditto ...	ditto	1977

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer and name or firm of publisher.
	LANGUAGE—*concld.*					ENGLISH
1978	Notes on Helps' Essays	English	Nil Kantha Majumdár.	Language	Printed at 45, Beniatola Lane, and published at 66, College Street, Calcutta.	Printed by B. B. Majumdár, and published by Chatterji brothers.
1979	A Key to Thomson's Winter.	ditto ...	Shashi Bhushan Sen.	ditto ...	Printed at 21, Sitárám Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by Shashi Bhushan Datta, and published by the Somprakásh Depository.
1980	A Key to the English Entrance Course, 1890. Part I.	ditto ...	A. T. Banerji, B.A.	ditto ...	Printed and published at 10, Dacre's Lane, Calcutta.	Printed and published by A. Ayre.
1981	Ditto ditto. Part II.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1982	Model Questions on the Entrance Course, 1890.	ditto ...	H. C. Sur' ...	ditto ...	Printed and published at 102, Radha Bazar, Calcutta.	Printed and published by Sharat Chandra Gopi Mohan.
1983	A Key to the Entrance Course, 1890. Part II.	ditto ...	S. P. Ghosh, M.A.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 1, Jeliatola Lane, Calcutta.	Printed by Jadu Náth Sil, and published by S. N. Ráya.
1984	A Complete Key to the English Entrance Course for 1890. Part II.	ditto ...	N. L. De and U. L. De.	ditto ...	Printed at Serampore and published at Calcutta.	Printed and published by Jitendra Nath De.
1985	An English Spelling Book.	dit ...	Lindley Murray.	ditto ...	Printed at 22-1, Jhamapukur Lane, and published at 54-1, College Street, Calcutta.	Printed and published by Baradá Prasad Majumdár.
1986	Notes on Excelsior Reader.	ditto ...	Jádab Chandra Bose.	ditto ..	Printed at 6, Simla Street, and published at 25, Cornwallis Street, Calcutta.	Printed by Prem Chánd Sháhá, and published by B. Banerji & Co.
	LAW.					
1987	The Bengal Tenancy Act	ditto ...	Edited by R. F Rampini and M. Finucane.	ditto ...	Printed at Thacker, Spink & Co.'s Press, and published at 5, Government Place, Calcutta.	Printed and published by Thacker, Spink & Co.
1988	Comparative Criminal Jurisprudence. Vol. I.	ditto ...	H. A. D. Phillips.	ditto ...	ditto ditto ...	ditto ditto ...
1989	Ditto ditto. Vol. II.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1990	A Digest of the Cases reported in the Indian Law Reports, Calcutta Series.	ditto ...	Baradá Prasád Chatterji.	ditto ...	Printed at 21, Sitárám Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by Shashi Bhushan Datta, and published by the Somprakásh Depository.
1991	The Code of Civil Procedure.	ditto ...	Edited by Nrisinharám Mukharji.	ditto ...	Printed and published at Serampore.	Printed by Shashi Bhushan Ghosh, and published by Nrisinharám Mukharji.
1992	Index to all Acts and Regulations relating to the Lower Provinces and to the Stamp duties payable on documents in ordinary use.	ditto ...	F. H. Skrine ...	ditto ...	Printed and published at 9, Hare Street, Calcutta.	Printed and published by S. N. Banerji.
1993	The Court Fees Act ..	ditto ...	Jiban Krishna Ghosh.	ditto ...	Printed at 249, Bowbazar Street, and published at Bhawanipore.	Printed by I. C. Bose and Company, and published by Jiban Krishna Ghosh.
1994	The Civil Court Companion. Vol. I.	ditto ...	Edited by Bámápada Mukharji.	ditto ...	Printed and published at Shibpore.	Printed by S. C. Nág, and published by H. J. Haldár.

Quarter ending 30th June 1889—continued.

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Date of issue from the press or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar. 4th	259	12mo ...	1st ...	.....	Printed	1 4 0	Bhudhar Chatterji, 66, College Street, Calcutta.	A key	1978
May 9th	48	12mo dy.	1st ...	1,000	ditto ...	0 5 0	Shashi Bhushan Datta, Sukea's Street, Calcutta.	ditto	1979
April 5th	192	12mo dy.	1st ...	800	ditto ...	1 12 0 for 2 parts.	A. T. Banerji, Bhawanipore.	ditto ... ... ,,	1980
,, 5th	270	12mo dy.	1st ...	800	ditto ...	.....	ditto ...	.....	1981
,, 9th	216	12mo dy.	1st ...	1,000	ditto ...	1 0 0	Hem Chandra Sur, 7, Gopi Mohan Datta's Lane, Calcutta.	.....	1982
,, 24th	228	12mo dy.	1st ...	2,000	ditto ...	2 0 0	Sáradá Prasád Ghosh, 1, Jeliatola Lane, Calcutta.	.....	1983
Mar. 27th	198	12mo dy.	1st ..	1,000	ditto ...	.....	N. L. De and U. L. De, Calcutta.	.....	1984
April 21st	88	12mo ...	3rd ...	1,000	ditto ...	0 4 0	Baradá Prasad Majumdár, 22-2, Jhamapukur Lane, Calcutta.	.....	1985
,, 15th	72	12mo dy.	1st ...	250	ditto ...	0 6 0	Jádab Chandra Bose, 46, Simla Street, Calcutta.	A key	1986
April 30th	406	8vo dy.	2nd ...	1,000	ditto ...	7 0 0	R. F. Rampini and M. Finucane.	With notes and annotations, judicial rulings, the rules made under the Act by the Local Government, the High Court, and the Registration Department, and the forms of registers prescribed by the Board of Revenue.	1987
,, 29th	319	8vo dy.	1st ...	560	Printed	12 0 0	H. A. D. Phillips	The book has been written rather for the criminal jurist than for the practising lawyer. It brings to notice the provisions of Continental Criminal Codes and compares them with the Indian law that it may be of some service to the Legislative Department of the Government of India.	1988
,, 29th	302	8vo dy.	1st ...	560	Printed	.....	ditto ...	This volume treats of the adjective law.	1989
,, 25th	360	8vo rl....	1st ...	1,500	ditto ...	2 0 0	Baradá Prasád Chatterji, Kulna.	From Volume X to Volume XIII, with a supplement containing a digest of the cases reported in Volumes XIV and XV.	1990
Mar. 14th	226	8vo rl...	1st ...	1,500	ditto ...	1 4 0	Nrisinharám Mukharji, Uttarpara.	As amended up to 20th September 1888.	1991
April 1st	12	8vo rl....	1st ...	500	ditto ...	1 0 0	F. H. Skrine, Rungpore.	Published for the benefit of the China famine relief fund.	1992
,, 2nd	4	8vo dy.	1st ...	500	ditto ...	.....	Jiban Krishna Ghosh, 49, Jeliapara Road, Bhawanipore.	Act VIII of 1870 ...	1993
1888.									
Nov. 10th	700	8vo crown.	1st ...	1,000	ditto ...	4 0 0	Bámápada Mukharji, Shibpore, Howrah.	.....	1994

	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer and name or firm of publisher.
						ENGLISH
	MEDICINE.					
1995	A Manual of Homœopathic Pharmacopœia.	English	Rajendra Lál Sur.	Medicine E.	Printed at Tala, and published at Shambazar, Calcutta.	Printed by Purna Chandra Bose, and published by Rajendra Lál Sur.
	MISCELLANEOUS.					
1996	Thacker's Indian Directory, 1889.	ditto ...	.....	Miscellaneous.	Printed at Thacker, Spink & Co.'s Press, and published at 5, Government Place, Calcutta	Printed and published by Thacker, Spink & Co.
1997	Indian Tea, Indigo, Silk and Coffee Concerns; Sugar, Lac, and Cinchona Plantations.	ditto ..	.....	ditto ...	ditto ditto ...	ditto ditto ...
1998	Angling in the Kumaun Lakes.	ditto ...	W. Walker, M.D.	ditto ...	ditto ditto ...	ditto ditto ...
1999	The Training and Management of Chargers.	ditto ...	J. W. King ...	ditto ...	ditto ditto ..	ditto ditto ...
2000	Phrenological Relations of Theories traceable in regard to the Principles of Causality and Conscientiousness.	ditto ...	Narsing Chandra Haldar.	ditto ...	Printed and published at 19, Lalbazar Street, Calcutta	Printed and published by C. J. A. Pritchard.
2001	Pay Tables of the British Army in India.	ditto ...	Adam Smith ...	ditto ...	Printed at 5, Council House Street, and published at the Pay Examiner's Office, Calcutta	Printed by the Calcutta Central Press Co., Ld., and published by Adam Smith.
2002	Prospectus and Plan of Elson's Maritime Code of Signals.	ditto ...	S. R. Elson ...	ditto ...	Printed and published at 9, Hare Street, Calcutta.	Printed and published by S. N. Banerji.
2003	Tables of Income, Wages, and Rent.	ditto ...	B. B. Mukharji.	ditto ...	Printed and published at 10, Dacre's Lane, Calcutta.	Printed and published by Alexander Ayre.
2004	A Primer of Commercial and Economic Education.	ditto ...	F. W. Quanbrough.	ditto ...	Printed and published at 20, British Indian Street, Calcutta.	Printed and published by D. M. Traill.
2005	The Voice of Hope ...	ditto ...	G. C. Ghosh ...	ditto ...	Printed at 78, College Street, and published at Cooch Behar.	Printed by Dwijendra Nath Páre, and published by G. C. Ghosh.
	The following works are designed for educational purposes.					
2006	The Government of India	ditto ...	.....	ditto ...	Printed at Thacker Spink & Co.'s Press, and published at 5, Government Place, Calcutta.	Printed and published by Thacker, Spink & Co.
2007	Calcutta University F. A Papers and Allahabad University Intermediate Examination Papers for 1889.	ditto ...	.....	ditto ...	Printed at 78, Amherst Street, and published at 143, Cornwallis Street, Calcutta.	Printed by Ambiká Charan Shom, and published by the Star Depository.
	PHILOSOPHY.					
	The following work is designed for educational purposes.					
2008	An Analysis of Sully's Outlines of Psychology.	ditto ...	Girish Chandra Nág.	Philosophy	Printed at 29-1, Mir Jaffer's Lane, and published at 54, College Street, Calcutta.	Printed by Shashi Bhushan Datta, and published by the Somprakásh Depository.

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
May 22nd	13	12mo ..	3rd ...	500	Printed	0 4 0	Rajendra Lál Sur, Shambazar, Calcutta.	.....	1995
Mar. 29th	1,411	8vo dy.	1st ...	1,750	ditto ...	16 0 0	Thacker, Spink & Co.	.....	1996
April 30th	96	8vo dy.	1st ..	150	ditto ...	2 8 0	ditto ...	.....	1997
„ 28th	105	8vo dy.	1st ..	500	ditto ...	4 0 0	W. Walker, M D	With a map of the Kumaun Lake Country.	1998
Feb. 25th	41	16mo dy.	1st ...	750	ditto ...	1 8 0	J. W. King ...	Some useful hints in the matter of training and management of chargers by one who served 12 years as a volunteer mostly in the Behar Light Horse, the finest Corps in India.	1999
May 2nd	½ sheet...	½ sheet fcap.	1st ...	100	Printed	0 1 0	Narsing Chandra Haldar, Bhawanipore.	.....	2000
Mar. 22nd	32	8vo dy.	10th...	800	ditto ...	1 0 0	Adam Smith, 1, Kaila Ghât Street, Calcutta.	.....	2001
May 22nd	12	8vo rl.	1st ...	500	ditto ...	.....	S. R Elson, 71, Diamond Harbour Road, Calcutta.	.....	2002
„ 15th	91	16mo do	1st ...	2,000	ditto ...	0 8 0	B. B. Mukharji, Behala.	.....	2003
April 1st	147	12mo dy.	1st ...	5,000	ditto ...	1 8 0	F. W. Quanbrough, Lahore.	A very useful publication for those who have to depend on their individual efforts as the only means of success in life.	2004
Mar. 28th	45	12mo dy.	1st ...	500	ditto ...	.....	G. C. Ghosh, Cooch Behar.	Two essays, one on the effects of English education and the other on female education.	2005
„ 30th	72	12mo ...	2nd ...	1,000	ditto ...	0 8 0	Horace Bell ...	An improved edition, in the preparation of which the author had the advantage of consulting Sir John Strachey's work entitled *India*.	2006
May 13th	12	12mo dy.	1st ...	.....	ditto ...	0 0 6	Star Depository, 143, Cornwallis Street, Calcutta.	.....	2007
June 2nd	86	12mo dy.	1st ...	1,000	ditto ...	0 12 0	Girish Chandra Nág, Ravenshaw College, Cuttack.	.....	2008

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						ENGLISH
	POETRY.					
	The following works are designed for educational purposes.					
2009	Poetical Class Book. No. I. (R.)	English	Compiled by Rai Rádhiká Prasanna Mukharji, Bahadur.	Poetry ...	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Judu Nath Sil, and published by the Sanskrit Press Depository.
2010	Milton's Paradise Lost, Bock I, Wordsworth's Excursion, Book I, and Thomson's Winter. (R.)	ditto ...	Edited by P. K. Lahiri, M.A.	ditto ...	Printed at 108, Baranasi Ghosh's Street, and published at 54, College Street, Calcutta.	Printed by N. C. Pál, and published by S. K. Lahiri & Co.
2011	Milton's Paradise Lost, Book I. (R.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2012	Paradise Lost, Book I. (R.)	ditto ...	Edited by Nagendra Náth Mukharji.	ditto ...	Printed at 300, Bowbazar Street, and published at 64, College Street, Calcutta.	Printed by Cones & Co., and published by H. B. Mukharji & Co.
2013	Thomson's Seasons. Winter. (R.)	ditto ...	Edited by G. A. Lorimer, M.A.	ditto ...	Printed at 6, Simla Street, and published at 64, College Street, Calcutta.	Printed by P. C. Sháhá, and published by H. B. Mukharji & Co.
2014	Selected Poems. (R.) ...	ditto ...	Edited by Madhu Sudan Sen.	ditto ...	Printed and published at the Giris Press, Dacca.	Printed by Kalimuddin, and published by Madhu Sudan Sen.
	POLITICS.					
2015	The Thoughts and Reflections of an Indian in England arising out of the Debate on the Indian Budget for 1888-89.	ditto ...	Párbati Charan Ráya.	Politics ...	Printed and published at the East Bengal Press, Dacca.	Printed by K. D. Basak, and published by Párbati Charan Ráya.
2016	The Indian Political Register. Part I. No. 1.	ditto ...	Rajani Kánta Ghosh.	ditto ...	Printed and published at 10, Padmapukur Road, Bhawanipore.	Printed and published by K. N. Mitra.
	RELIGION.					
2017	The Mahabharata. Part 48. (T.)	ditto ...	Translated by Pratáp Chandra Ráya.	Religion, H.	Printed and published at 1, Raja Gurudas' Street, Calcutta.	Printed by Kalidás Sen, and published by Pratáp Chandra Ráya.
2018	Ditto. Part 49. (T.) ...	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2019	Ditto. Part 50. (T.) ...	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2020	God's Dealings in the Life of a Sinner. (T.)	ditto	Shashi Bhushan Mallik.	ditto, B. ...	Printed and published at the East Bengal Press, Dacca.	Printed by K. D. Basak, and published by Shashi Bhushan Mallik.
2021	The New Dispensation ...	ditto ...	Banga Chandra Ráya.	ditto ...	ditto ditto ...	Printed by K. D. Basak, and published by Banga Chandra Ráya.
	SCIENCE (MATHEMATICAL).					
	The following works are designed for educational purposes.					
2022	Hints on the Study of Mathematics.	ditto ...	R. D. Banerji	Science (Mathematical).	Printed and published at Serampore.	Printed and published by Jitendra Náth De.
2023	The Students' Algebra. Part I.	ditto ...	Chuni Lál Sil	ditto ...	Printed at 6, Simla Street, and published at 25, Cornwallis Street, Calcutta.	Printed by Prem Chánd Sháhá, and published by B. Banerji & Co.
2024	Progressive Papers in Algebra with Solutions.	ditto ...	Hara Náth Bhattácháryya.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 55, College Street, Calcutta.	Printed by Jadu Náth Sil, and published by J. C. Banerji.

Quarter ending 30th June 1889—continued.

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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar. 29th	48	12mo dy.	12th...	2,000	Printed	0 8 0	Rai Rádhiká Prasanna Mukharji, Bahadur, 30, Bechu Chatterji's Street, Calcutta.	A well-known school book ..	2009
May 12th	311	12mo ...	1st ...	2,000	ditto ...	1 10 0	Prasanna Kumár Lahiri, 91, Balarám De's Street, Calcutta.	With Notes	2010
„ 8th	102	12mo .	1st ...	1,000	ditto ...	0 8 0	ditto ..	ditto	2011
June 1st	120	16mo crown.	1st ...	1,000	ditto ...	1 0 0	Nagendra Náth Mukharji.	ditto	2012
May 12th	125	16mo crown.	1st ...	1,000	ditto ...	1 0 0	H B. Mukharji & Co., 64, College Street, Calcutta.	.....	2013
Mar. 15th	14	.....	1st ...	1,000	ditto ...	0 1 6	.....	.....	2014
May 28th	13	8vo ...	1st ...	200	ditto ...	0 2 0	.....	Being chiefly a defence of educated Indians against the charge of disloyalty brought forward by Sir Richard Temple.	2015
Mar. 14th	32	8vo dy.	1st ...	2,000	ditto ...	0 4 0	R. K. Ghosh, 36, Baláram Bose's Lane, Bhawanipore.	Being a collection of extracts from public documents, letters, minutes and speeches of British and Anglo-Indian Statesmen relating to Indian affairs. This part treats of England's duties to India.	2016
Mar. 16th	72	8vo dy.	1st ...	4,000	ditto ...	.....	Pratáp Chandra Ráya.	Goes on with the Dronaparba ...	2017
„ 25th	72	8vo dy.	1st ...	4,000	ditto ...	.....	ditto ..	ditto ditto ...	2018
April 25th	72	8vo dy.	1st ...	3,500	ditto ...	.....	ditto ..	Dronaparba ends and Karnaparba commences in this part.	2019
June 13th	124	12mo ...	1st ...	500	ditto ...	0 10 0	.....	A translation of the Bengali work entitled *Pápír Jibane Bhagabáner Lilá.*	2020
May 22nd	32	.....	1st ...	200	ditto ...	0 2 0	.....	Its spiritual aspect	2021
„ 12th	360	12mo dy.	2nd ..	500	ditto ...	1 8 0	R. D. Banerji. Serampore.	.. ..	2022
April 12th	504	12mo dy.	2nd ...	504	ditto ...	1 8 0	Chuni Lál Sil, 46, Simla Street, Calcutta.	.....	2023
„ 17th	256	12mo dy.	1st ...	1,000	ditto ...	1 4 0	Hara Náth Bhattácháryya, Calcutta.	.....	2024

Number.	2 Title (to be translated into English when the title-page is not in that language).	3 Language in which the book is written.	4 Name of author, translator, or editor of the book, or any part of it.	5 Subject.	6 Place of printing and place of publication.	7 Name or firm of printer, and name or firm of publisher.
	SCIENCE (MATHEMATICAL—*concld.*					ENGLISH
2025	The Elements of Algebra. Part I.	English	P. Ghosh ...	Science (Mathematical).	Printed and published at 28, Convent Road, Entali.	Printed and published by Dwáraká Náth Nandan.
2026	The Elements of Arithmetic.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2027	The Elements of Mental Arithmetic.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2028	A Syllabus of the Elements of Modern Geometry.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2029	Euclid's Elements of Geometry. Books I to IV.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2030	Ditto. Books V, VI, XI, and XII.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2031	A Sequel to the Elements of Euclid.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
	SCIENCE (NATURAL AND OTHER). *The following works are designed for educational purposes.*					
2032	An Introduction to Science.	ditto ...	Kali Kumár Dás.	Science (Natural and other).	Printed and published at 38, Ram Mohan Datta's Road, Bhawanipore.	Printed by B. M. Bose. and published by Jogesh Chandra Banerji.
2033	Students' Guide to the Rudiments of Science.	ditto ..	Jogendra Nath Banerji.	ditto ...	Printed at 109, and published at 55, College Street, Calcutta.	Printed by Umá Charan Chakrabartti, and published by J. C. Banerji.
2034	A Companion to the Science Primer.	ditto ...	S. N. Banerji and K. P. Sen.	ditto ...	Printed at 62-2, Beadon Street, and published at 3, Santiram Ghosh's Street, Calcutta.	Printed by Nepál Chandra Dás, and published by Hari Charan Dás.
2035	A Companion to the Study of Science.	ditto ...	A. C. Sen, B.A.	ditto ...	Printed at 92, Bow Bazar Street, and published at 54, College Street, Calcutta.	Printed by Kisori Mohan Sen, and published by S. K. Lahiri & Co.
2036	A Companion to Introductory (?)	ditto ..	Hem Chandra Niyogi.	ditto ..	Printed and published at the Danapur Central Press.	Published by Hem Chandra Niyogi.
2037	A Guide to Physical Geography.	ditto ...	Bipin Bihari Dás.	ditto ...	Printed at 113, Grey Street, and published at 70, College Street, Calcutta.	Printed by A. C. Hazra, and published by Biswas and Sons.
2038	Ditto ditto ...	ditto ...	Jajneswar Bagchi.	ditto ...	Printed and published at 8, Muktaram Babu's Street, Calcutta.	Printed and published by Adhar Chandra Ghosh.
2039	Students' Guide to Physical Geography.	ditto ...	Jogendra Náth Banerji ...	ditto ...	Printed at 109, and published at 55, College Street, Calcutta.	Printed by Umá Charan Chakrabartti, and published by J. C. Banerji.
	TRAVELS AND VOYAGES.					
2040	A Visit to Europe ...	ditto ..	T. N. Mukharji.	Travels and Voyages.	Printed at 132, Lower Circular Road, and published at 4, Dalhousie Square, Calcutta.	Printed by J. Larkins, and published by W. Newman & Co.
	book is full of interesting observations on men and things in England. Though he greatly admires English should, yet he points out certain defects in the political and social regulations of the English people. His products of one country in the other is very interesting.					
	ART.					HINDI
931	Khetí Bárí. A Book on Agriculture. Part I.	Hindi ...	Umánáth Misrá.	Art ...	Printed and published at the Khargabilas Press, Bankipore,	Printed and published by Shaheb Prasad Sinha.
932	Khetnáp. Mensuration.	ditto ...	Gopilál ...	ditto ..	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

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BOOKS—concluded.									
1889.	Pages.					Rs. A. P.			
Mar., 20th	370	16mo ...	12th...	5,000	Printed	1 8 0	P. Ghosh, 28, Convent Road, Entali.	.....	2025
„ 15th	496	16mo ...	13th...	10,000	ditto ...	1 8 0	ditto ...	.....	2026
„ 12th	50	16mo ...	New	3,000	ditto ...	0 2 0	ditto ...	.....	2027
„ 5th	76	16mo ...	New	200	ditto ...	0 8 0	ditto ..	.....	2028
„ 3rd	382	16mo ...	11th ..	4,500	ditto ..	1 4 0	ditto ...	... .	2029
„ 17th	218	16mo ...	3rd ...	2,000	ditto ...	1 0 0	ditto ...	.....	2030
„ 8th	103	16mo ...	New	200	ditto ..	1 0 0	ditto ...	.....	2031
„ 8th	58	12mo dy	1st ...	2,000	ditto ...	0 6 0	Kali Kumár Dás, Boalia, Rajshahye.	Designed for the use of students apreparing for the Entrance Exmination.	2032
Feb., 18th	40	12mo dy	1st ...	2,000	ditto ...	0 5 0	Jogendra Nath Banerji, Nimta.	ditto ditto ..	2033
May, 4th	45	12mo dy	1st ...	1,000	ditto ...	0 5 0	S. N. Banerji, 37, Kási Mitra's Ghât Street, and K. P. Sen, 9, Ram Chandra Mitra's Lane, Calcutta.	ditto ditto ...	2034
April, 28th	53	12mo dy	1st ...	1,000	ditto ...	0 6 0	A. C. Sen, B.A., 1-1, Srinath Das's Lane, Calcutta,	ditto ditto ...	2035
Feb., 15th	33	...	1st ...	1,000	ditto ...	0 5 0	... ...	ditto ditto ...	2036
May, 2nd	72	12mo ...	1st ..	1,000	ditto ..	0 7 0	......	ditto ditto ...	2037
April, 2nd	80	8vo dy	1st ...	1,000	ditto ..	0 8 0	Adhar Chandra Ghosh, 80, Muktaram Babu's Street, Calcutta.	ditto ditto ...	2038
Mar., 1st	78	12mo dy	1st ...	2,000	ditto ...	0 8 0	Jogendra Nath Banerji, Nimta	ditto ditto ...	2039
„ 29th	404	12mo dy	1st ...	500	ditto ...	3 0 0	T. N. Mukharji F.L.S.	The writer was deputed by the Government of India to the Colonial and Indian Exhibition held in London in 1886. The	2040
society, and expresses his regret that his countrymen do not benefit by their contact with Englishmen as fast as they suggestions for improving the position of the poorer classes of both England and India by popularising the cheap									
BOOKS.									
Mar., 18th	106	12mo dy	1st ...	1,000	ditto ...	0 6 0	Umánáth Misrá, Samkoora, Patna.	A short treatise on agriculture and gardening.	931
„ 20th	22	12mo dy	1st ...	2,000	ditto ...	0 2 0	Gopináth, Pachgachia, Bhugulporé.	.....	932

1		3	4	5	6	
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						HINDI
	DRAMA.					
933	Indar Sabhá. The Court of Indra.	Hindi ..	.....	Drama ..	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
934	Satya Harischandra Nátak. A Drama describing the career of Rájá Harischandra, the Truthful.	ditto ..	Harischandra.	ditto ...	Printed and published at the Khargabilas Press, Bankipore.	Printed and published by Saheb Prasad Sinha.
935	Bál Khel ba Dhruba Charitra. The career of Dhruba, for the Amusement of children.	ditto ...	Damodar Shástri ...	ditto ...	ditto ditto ...	ditto ditto ...
	FICTION.					
936	Betál Pachchisi. Twenty-five Tales of the Demon. (R.)	ditto ...	Edited by Nabin Misra.	Fiction ..	Printed at 323, Chitpore Road, and published at 40, Garanháta Street, Calcutta.	Printed by Tinkari Biswas, and published by Panchánan Ghosh.
937	Hatemtai. The Story of the Emperor Hatem. (T.)	ditto ..	.....	ditto ...	Printed at 339, and published at 326, Upper Chitpore Road, Calcutta.	Printed by Kaliprasanna Ráya, and published by Shyamlál Sil.
938	Ditto ditto (T.)	ditto ...	.....	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
939	Gulavákáwali. The Bakawali Flower. (T.)	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
940	Kissá Afimchi ká. The Story of an Opium-eater.	ditto ..	Srídhar Bhát	ditto ...	ditto ditto ...	ditto ditto ...
941	Triyá Charít. Stories relating to female character.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
942	Betál Pachchisi. Twenty-five Tales of the Demon. (T.)	ditto ..	Lalu Lal ..	ditto ...	ditto ditto ...	ditto ditto ...
	HISTORY (INCLUDING GEOGRAPHY).					
	The following works are designed for educational purposes.					
943	Bhugol Bidyá kí Pahili Pustak. The First Book on Geography.	ditto ...	Revd. A. Turnbull.	History (including Geography).	Printed and published at Lochnagar, Darjeeling.	Printed and published by N. L. Ráya.
944	Bháratbarsa ká Nakshá. Map of India.	ditto ...	Debendra Nath Dhar.	ditto ...	Printed and published at 40, Báránasi Ghosh's Street, Calcutta.	Printed and published by Debendra Náth Dhar.
	LANGUAGE.					
	The following works are designed for educational purposes.					
945	Sáhitya Samgraha ki Kunji A complete key to Babu Bireswar Chakrabarti's Sáhitya Samgraha.	ditto ...	Piyárilál and Rám Lal.	Language	Printed at 105, Cotton Street, Calcutta, and published at the Mission School, Ranchi.	Printed by Bechulál Gupta, and published by Piyárilál.
946	Nitisár. Moral Lessons.	ditto ...	Munshi Ganesh Prasád.	ditto ...	Printed and published at Durbhunga.	Printed by Nirod Chandra Mukharji, and published by Munshi Ganesh Prasád.
947	Bháshásár. The Substance of Language.	ditto ...	Saheb Prasád Sinha.	ditto ...	Printed and published at the Kargabilas Press, Bankipore.	Printed and published by Saheb Prasad Sinha.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition	Number of copies of which the edition consists.	Printed or lithographed	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A P.			
Mar., 13th	44	12mo ..	4th ...	2,000	Printed	0 1 0	.....	A well-known drama ...	933
May, 10th	80	8vo rl ...	2nd ...	2,000	ditto ..	0 6 0	Ramdin Sinha, Khargabilas Press, Bankipore.	Based on the story of Rájá Harischandra, who gave away his kingdom and sold himself to slavery in order to keep his promise to Bisvámitra.	934
Mar., 21st	24	12mo dy	1st ...	500	ditto ...	0 2 0	ditto ..	....	935
„ 7th	120	12mo rl	1st ..	1,000	ditto ...	0 4 0	Panchánan Ghosh, Calcutta.	.....	936
April, 17th	238	8vo rl ...	Revised.	1,000	ditto ...	0 14 0	Shyamlál Sil, Calcutta.	.....	937
Mar., 24th	254	8vo ...	4th ...	2,000	ditto ..	0 5 0	.....	.....	938
„ 24th	99	8vo ..	3rd ...	2,000	ditto ...	0 2 6	.....	.....	939
„ 18th	28	12mo ...	3rd ...	2,000	ditto ...	0 1 0	.....	A number of humorous stories about the oddities of opium-eaters.	940
„ 26th	60	12mo ...	4th ..	2,000	ditto ..	0 2 0	.....	.....	941
„ 23rd	93	8vo ...	4th ...	3,000	ditto ...	0 1 6	.....	.....	942
„ 1st	97	12mo ..	2nd ..	1,000	ditto ...	0 3 0	Foreign Mission Committee of the Church of Scotland, Edinburgh.	.....	943
April, 25th	1 sheet.	4' 9" × 3' 6"	1st ...	200	ditto ...	5 0 0	Debendra Náth Dhar, 40, Báránasi Ghosh's Street, Calcutta.	.....	944
Mar., 15th	105	8vo dy .	1st ..	2,000	ditto ..	0 10 0	.....	A key	945
April, 26th	117	8vo dy...	1st ..	1,000	ditto ..	0 7 0	.....	Moral lessons in pure and idiomatic Hindi.	946
May, 11th	184	8vo rl..	6th ..	2,000	ditto ..	0 8 0	Saheb Prasad Sinha, Khargabilas Press, Bankipore.	.....	947

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						HINDI
	LAW.					
948	Tarjume Kayedá Bord Mul Alik Tamil Ehkamad Sage Kalaktari. Translation of Board's Rules as to the Service of Processes from the Collectorate.	Hindi ...	Amjad Hussain Shaha.	Law ...	Lithographed and published at Arrah.	Lithographed and published by Zuhur-ul-Huq.
	MISCELLANEOUS.					
949	Fagua Chautál. Songs for the *Holi* Festival in which *fagua* or red powder is used.	ditto ...	Dhaneswar Pande.	Miscellaneous	Printed at 51, Cross Street, and published at 10, Banstala Street, Calcutta.	Printed by Sadánanda Misra, and published by Bhagawat Misra and Dhaneswar Pande.
950	Hanumán Jyotish. An Astrological Work attributed to Hanumán.	ditto ...	Srínáth Láhá	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nritya Lál Sil.
951	Holi Ká Khyál. The Songs Relating to the *Holi* Festival.	ditto ...	Brajabilás Das	ditto ..	ditto ditto ...	ditto ditto ...
952	Pávas Pramod. The Pleasures of the Rainy Season.	ditto ...	Dámodarprasád	ditto ...	Printed at 105, Cross Street, Calcutta, and published at Bhagulpore.	Printed by Bechulál Gupta, and published by the Author.
953	Khyál Kájíki Betí Mulako. The Songs about Mulá, the daughter of the Kází.	ditto ...	Sankar Das ...	ditto ...	Printed at 105, Cotton Street, and published at 63, Sutapatti, Calcutta.	Printed by Bechulál Gupta, and published by Surajballi Pande.
954	Harish Chandra Kalá. The Complete Works of Harish Chandra. Vol. IV. Part II.	ditto ...	Edited by Ramdin Sinha.	ditto ...	Printed and published at the Khargabilás Press, Bankipore.	Printed and published by Shahebprasad Sinha.
955	Ditto ditto. Vol. IV. Part III.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
956	Ditto ditto Vol. IV. Part IV.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
957	Ditto ditto. Vol. IV. Part V.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
958	Ditto ditto. Vol V. Part I.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
	The following work is designed for educational purposes.					
959	Mahájani. Mercantile Accounts.	ditto ..	Umanáth Misra	ditto ..	ditto ditto ...	ditto ditto ...
	RELIGION.					
960	Gopichánd Bharthari. The Stories of Gopichand and Bharthari.	ditto ...	Gajaráj Sinha	Religion, H.	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
961	Suryya Purán. A Purán in honour of the Sun.	ditto ...	Tulsi Dás ...	ditto ...	ditto ditto ..	ditto ditto ...
962	Srírám, Bharat Srí-krishna O Rádhámádhabji ki Báramási. The condition of Ram, Bharat, Krishna and Rádhámádhab during the twelve months of the year.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
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BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 11th	24	6½ × 5	1st ...	50	Lithographed.	.....	.....	The title explains the object of the work.	948
Mar., 3rd	72	12mo dy	1st ...	1,000	Printed	0 8 0	Bhagawat Misra, 10, Banstala Street, Calcutta.	.....	949
„ 8th	112	16mo ...	2nd ...	2,000	ditto ...	0 2 0	.....	Fortune-telling by means of diagrams, of the cawing of crows, and of the throbbings of different parts of the body.	950
May, 18th	20	12mo ...	1st ...	2,000	ditto ...	0 1 0	.....	*Khyal* songs for the *holi* festival	951
Mar., 19th	36	12mo ..	1st ...	1,000	ditto ...	0 4 0	Keshabánand ...	Describes the mental condition of ladies during the rainy season.	952
„ 18th	48	12mo dy	1st ...	1,000	ditto ...	0 8 0	Surajballi Pande	Songs relating to the love of a Prince for Mulá, the daughter of a Kázi. The Prince fell in love with her in a dream.	953
„ 12th	68	8vo rl ...	1st ...	200	ditto ...	1 0 0	Ramdin Sinha, Khargabilas Press, Bankipore.	This contains the text and translation of *Tudiya Sarvasva*, a work on the nature of devotion to God, attributed to Nárada. It contains 84 aphorisms, and is in the form of an *Upanishat*. It refutes the theories of Vyása, Garga and Sándilya on the subject, and considers the devotion of the milkmaids of Brindaban to be the true form of devotion.	954
„ 13th	87	8vo rl ...	1st ...	200	ditto ...	1 0 0	ditto ...	The text and translation of the one hundred aphorisms of Sándilya on the nature of devotion to God; the *Sarbottama stotra*; the second-half of the work entitled *Bhaktamálá*; the *Utsabdbali*, or the number of festivals observed by the Hindus, and a discourse on Vaishnabism in India.	955
„ 14th	64	8vo ...	1st ...	200	ditto ...	1 0 0	ditto ...	Contains an introduction to the Puránas, in which the number, the chapters the slokas and the contents of the various Puranas are discussed.	956
May, 14th	98	8vo ...	1st ...	200	ditto ...	1 0 0	ditto ..	Of the various months in the year and the religious ceremonies to be performed in each.	957
„ 16th	108	8vo rl	1st ...	200	ditto ...	1 0 0	ditto ...	Collections of songs on a variety of subjects.	958
Mar, 19th	66	12mo dy	1st ...	1,000	ditto ...	0 2 0	Umanath Misra, Shámkura, Patna.	For the use of students of the schools and páthshalas of Behar.	959
„ 11th	37	12mo ...	4th ..	2,000	ditto ...	0 2 0	.....	Often noticed	960
„ 21st	21	12mo ...	6th ...	3,000	ditto ...	0 1 0	.....	ditto	961
„ 19th	11	12mo ...	1st ...	2,000	ditto ...	0 0 6	.....	The title explains the object of the work.	962

Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						HINDI
	RELIGION—*concld.*					
963	Khaira Shahaki Báramási. The condition of Khaira Sháh during the twelve months of the year.	Hindi ..	.....	Religion. H.	Printed at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
964	Benimádhab, Jugal Kishor, Kausalyá, Gopi Valadebki Báramási The condition of Benimádhab, &c., during the twelve months of the year.	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
965	Bharatharí Charitra The Career of Bharathari or Bhartrihari.	ditto ..	Kashi Náth ...	ditto ...	ditto ditto ...	ditto ditto ...
966	Rukmini Mangal. The Auspicious Rukmini.	ditto ...	Bhagabati Pandit.	ditto ...	ditto ditto ...	ditto ditto ...
967	Hanumán Bijaya. Victory to Hanumán.	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
968	Dána Lílá. The Ferry Sport.	ditto ..	Girijánanda ...	ditto ...	ditto ditto ..	ditto ditto ...
969	Prema Ságara. The Ocean of Love. (R)	ditto ...	Lallu Lál ...	ditto ...	ditto ditto ...	ditto ditto ...
970	Jagannath Máhátmya. The Sacredness of Jagannáth.	ditto ...	Paramánanda Sharmá.	ditto ...	Printed at 51, Cross Street, and published at 10, Rup Chand Raya's Street. Calcutta.	Printed by Sadánanda Misra, and published by Beni Mádhab Prasád.
971	Krishna Masti Prárambha. Salutation to Krishna.	ditto ...	Keshabánanda	ditto ..	Printed and published at 105, Cotton Street, Calcutta.	Printed and published by Bechulál Gupta.
972	Jnánávali. A Jaina Religious work.	ditto ...	Compiled by Raya Sítab Chand Nahar.	ditto Jaina.	Printed and published at Azimganj.	Printed and published by Shyamlál Chakrábarti.
	SCIENCE (MATHEMATICAL).					
	The following works are designed for educational purposes.					
973	Ganita Guru. Tables of Native Arithmetic. Part I.	Hindi ...	Bireswar Chakrabarti.	Science (Mathematical).	Printed and published at 8, Dixon's Lane, Calcutta.	Printed and published by B. L. Chakrabarti.
974	Deshi Hisháb. Native Arithmetic, Part III.	ditto ...	Umanath Misra.	litto ...	Printed and published at the Khargabilás Press, Bankipore.	Printed and published by Shahebprasád Sinha.
975	Ditto. Ditto. Part IV.	ditto ...	Ditto ...	ditto ..	Ditto ditto ...	Ditto ditto ...
	FICTION.					MUSALMANI.
609	Khaibarer Janganámá. The Battle of Khyber.	Musalmani Bengali	Dost Muhammad Chaudhuri.	Fiction ...	Printed and published at 155, Musjidbari Street, Calcutta.	Printed and published by Mafizuddin Ahmmad.
610	Paribanu Sháhájádi. Paribanu. The Emperor's Daughter.	ditto ...	Ayuzuddin Ahmmad	ditto ..	ditto ditto ..	ditto ditto ...
611	Sahíde Kárbálá. The Martyr of Kárbálá.	ditto ...	Jonab A ..	ditto ..	ditto ditto ..	ditto ditto ...
612	Jange Sohráb. The War of Sohráb.	ditto ..	Munshi Muhammad Khater.	ditto ..	Printed at 68, Nimu Gosain's Lane, and published at 155, Musjidbari Street, Calcutta	Printed by Debendra Nath Chatterji, and published by Mafizuddin Ahammad.
613	Del Afroj. The Enlightener of the Heart	ditto ...	Molla Muhammad Danesh.	ditto ..	Printed and published at, 75, Nimu Gosain's Lane Calcutta.	Printed and published by Muhammad Khater.
614	Gule Harmuz. Of Gul and Harmuz.	ditto ...	Muhammad Khater.	ditto ..	ditto . ditto ...	ditto ditto ...
615	Laili Majnu. Of Laili and Majnu.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...

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Date of issue from the press or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists	Printed or litho-graphed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright or any portion of it.	Remarks.	Number
BOOKS—concluded.									
1889.	Pages.					Rs. A. P.			
Mar. 15th	11	12mo ..	3rd ...	2,000	Printed	0 0 6	.....	.....	963
„ 20th	11	12mo ...	1st ...	2,000	ditto ...	0 0 6	.....	.....	964
„ 21st	13	12mo ...	4th ...	3,000	ditto ...	0 0 6	.....	Noticed	965
„ 9th	21	12mo ...	2nd ..	2,000	ditto ..	0 1 0	.....	ditto	966
„ 13th	11	12mo ...	1st ...	2,000	ditto ...	0 0 6	.....	.....	967
„ 18th	11	12mo ...	8th ...	2,000	ditto ...	0 0 6	.....	.....	968
„ 23rd	316	8vo ...	10th...	3,000	ditto ...	0 5 0	.....	.....	969
„ 1st	48	8vo dy.	1st ...	2,000	ditto ...	0 5 0	Beni Mádhab Prasad, 10, Rup Chand Raya's Street, Calcutta	.....	970
„ 9th	8	16mo ...	1st ...	500	ditto ...	0 2 0	Keshabánand ...	.....	971
May 11th	208	8vo ...	2nd ...	1,000	ditto ...	1 4 0	.....	A collection of short poems on Jaina religious subjects in an old form of the Hindi language.	972
						Rs. A. P.			
Mar. 29th	41	8vo ...	2nd ...	5,000	Printed	0 1 6	Bireswar Chakrabarti, Ránchi.	.....	973
April 25th	74	8vo dy.	1st ..	1,000	ditto ...	0 3 0	Umánáth Misra, Sham Kura, Patna.	.....	974
Mar. 17th	96	8vo dy.	1st ..	1,000	ditto ...	0 2 6	ditto ...	.....	975
BENGALI BOOKS.									
May 4th	236	8vo rl. ...	2nd ...	1,000	Printed	2 4 0	Dost Muhammad, Purasa, Dinajpore.	Khyber is a place in Arabia where Muhammad had a serious fight with the Jews. Through the exertions of Ali, Muhammad was successful in the fight. The present work is a historical romance based on the story of the victory of Ali at Khyber.	609
April 26th	138	8vo rl. ...	2nd ...	1,000	Printed	1 4 0	Mafizuddin Ahmmad, Calcutta.	A love story	610
„ 14th	411	8vo rl. ...	2nd ...	1,000	ditto ...	2 12 0	ditto ...	Based on the story of the martyrdom of Hosain at Kárbálá.	611
„ 19th	55	8vo rl. ..	new ...	1,000	ditto ...	0 8 0	Mafizuddin Ahmmad.	Based on the story of Rostam and his son Sohrab as given in Fardusi's *Shahnama*.	612
May 23rd	71	8vo rl. ...	Revised.	1,000	ditto ...	0 6 0	Maniruddin Ahmmad and Tafiluddin Ahmmad, Calcutta.	An adaptation of the first story of the Hitopadesha entitled *Mitrabhéd*.	613
„ 26th	202	8vo rl. ...	ditto	1,000	ditto ..	1 4 0	Muhammad Khater, Calcutta.	Often noticed	614
„ 27th	77	8vo rl. ...	ditto	1,000	ditto ...	1 2 0	ditto ...	ditto	615

1	2	3	4	5	6	7
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	FICTION—*concld.*					MUSULMANI-BEN-
616	Janga Namá The Book of War.	Musalmani Bengali	Munshi Yakub-	Fiction ..	Printed at 75, Nimu Gosain's Lane, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed and published by Muhammad Khater.
617	Gul e Arjan. (A Name)	ditto ..	Rayhanuddin and Sadulla Sarkar.	ditto ..	Printed and published at 343, Upper Chitpore Road, Calcutta.	Printed by Binod Bihari Sil, and published by Kánáilál Sil and Brothers.
618	Cháhár Darbesh. The Four Darweshes.	ditto ...	Muhammud Danesh.	ditto ..	Printed and published at 90, Beadon Street, Calcutta.	Printed and published by Manirruddin Ahmmad.
619	Ján Churir Puthi. The Book about Heart-stealing.	ditto ...	Shaikh Mahabulla.	ditto ...	Printed and published at Kumarkhali.	Printed by Satish Chandra Mazumdar and published by Nasiruddin Kári.
	MISCELLANEOUS					
620	Sher Ali. (A Name) ..	ditto ...	Shaha Sher Ali	Miscellaneous.	Printed at 90, Beadon Street, and published at 105, Chitpore Road, Calcutta.	Printed and published by Manirruddin Ahmmad.
621	Ditto ditto ...	ditto ..	ditto ..	ditto ...	Printed and published at 75, Nimu Gosain's Lane, Calcutta.	Printed and published by Muhammad Khater.
622	Sáyat Námá. Of auspicious and inauspicious times.	ditto ...	Golam Farid ...	ditto ...	ditto ditto ...	ditto ditto ...
623	Solemani Talcnama. Solomon's Book on Fortune-telling.	ditto ..	ditto ..	ditto ..	ditto ditto ...	ditto ditto ...
	RELIGION.					
624	Del Raoshan. The Light of the Heart.	Musalmani-Bengai	Garibulla Shaheb.	Religion, M.	Printed and published at 155, Masjid Bari Street, Calcutta.	Printed and published by Mafizuddin Ahmmad.
625	Jaorakal Iman. The Boat of Faith.	ditto ..	Munshi Ashgar Hasan.	ditto ...	Printed at 90, Beadon Street, and published at 105, Chitpore Road, Calcutta	Printed and published by Manirruddin Ahmmad.
626	Sirajal Kalam. The Lamp of Doctrines.	ditto ...	Munshi Ashruf Ali.	ditto ...	Printed and published at Andar Killa, Chittagong.	Printed by Jagat Chandra Das, and published by Ashraf Ali.
627	Nari Benamáz námá. Of the woman who does not say her prayers.	ditto ...	Bax Ali Khondkar.	ditto ...	Printed and published at the Amar Press, Comilla.	Printed and published by Nilámbar Datta.
628	Dhoká Bhanjan. The Removal of Doubts.	ditto ...	Naimuddin ...	ditto ...	Printed and published at the Mahmudia Press, Karatia.	Printed and published by Atahar Ali.
629	Ahakámal Muslemin. Good and Bad Deeds according to Musalman Doctrines.	ditto ...	Munshi Mal Muhammad.	ditto ...	Printed and published at the Dacca Azizia Press.	Printed and published by Basanta Kumár De.
630	Nasihatal Gafelin. Awakening the negligent.	ditto ..	Munshi Sadak Ali Ahmmad	ditto ...	Printed and published at the Mahmudia Press, Karatia.	Printed and published by Atahar Ali.
631	Ek Sha Tirish Faraz One hundred and thirty duties of Musalmans.	ditto ...	Bax Ali Khondkar.	ditto ..	Printed and published at the Amar Press, Comilla.	Printed and published by Nilámbar Datta.
632	Meyáráj Námá. The Book of the Heavenward Journey.	ditto ...	Munshi Muhammed Khater.	ditto ...	Printed at 75, Nimu Gosain's Lane, and published at 115, Chitpore Road, Calcutta.	Printed by Muhammad Khater, and published by Mafizuddin Ahmmad.

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GALI BOOKS—concluded.									
1889.	Pages.					Rs. A. P.			
June, 2nd	158	8vo rl ..	Re-vised.	1,000	Printed	1 4 0	Muhammad Khater.	Often noticed.	616
April 12th	120	8vo rl ..	ditto	2,000	ditto ...	0 5 0	Kánáilál Sil and Brothers.	Ditto.	617
May 12th	172	8vo rl ...	ditto	1,000	ditto ...	1 6 0	Maniruddin Ahmmad, Calcutta.	Ditto.	618
April 1st	32	.....	1st	1,000	ditto ...	0 2 6	Shaikh Mahab ulla Bakali, Julpiguri.	Madar was a saint, a great worshipper of Allah, and had many wonderful powers, one of them being that of concealing his own vital principle. At his death Azrail, the Angel, came to carry away his vital principle, but could not find it till after some search. Madar himself pointed out where he had concealed it.	619
May 8th	76	8vo rl ...	Re-vised	1,000	ditto ..	0 11 0	Maniruddin Ahmmad.	.....	620
„ 16th	76	8vo rl ...	ditto	1,000	ditto ...	0 6 0	Muhammad Khater, Calcutta.	Short pieces on a variety of subjects by Shah Sher Ali.	621
„ 19th	58	8vo rl ...	ditto	1,000	ditto ..	0 6 0	Muhammad Khater, Calcutta.	The title explains the object of the work.	624
„ 21st	54	8vo rl ..	ditto	1,000	ditto ...	0 10 0	Ditto ditto ...	Often noticed.	623
April, 23rd	79	8vo rl ...	3rd ...	1,000	Printed	1 2 0	Mafizuddin Ahmmad.	Directions for the performance of the religious ceremonies of the Musalmans.	624
May, 7th	175	8vo rl ...	Re-vised.	1,000	ditto ...	1 0 0	Maniruddin, Ahmmad, Calcutta.	The consequences of meritorious acts in this world and in the next, as given in the Koran and in the *Hadis*.	625
Mar, 22nd	13	8vo dy...	1st ...	100	ditto ...	0 1 6	Ashruf Ali, Chandgaon.	A refutation of certain doctrines laid down by a learned Wahabi on the subject of reciting the story of Muhammad's birth in religious assemblies of the Musalmans.	626
April, 25th	17	8vo ...	2nd ...	1,000	ditto ...	0 2 0	.....	A woman who does not say her Namaz is not counted a good Musalmani.	627
„ 15th	12	12mo dy	1st ...	1,000	ditto ...	0 0 3	Naimuddin, Karatia.	In reply to a Wahabi work finding fault with certain doctrines of the Hanifi school of Sunnis.	628
Mar., 25th	92	8vo ..	8th ...	1,000	ditto ...	0 6 0	.....	The title explains the object of the work.	629
May, 13th	12	8vo ...	...	1,000	ditto ...	0 1 0	Munshi Sadak Ali Ahmmad.	.....	630
April, 12th	10	8vo ...	1st ...	2,000	ditto ..	0 0 6	.. ...	The title explains the object of the work.	631
May, 28th	28	8vo rl ..	Re-vised.	1,000	ditto ...	0 4 0	Mafizuddin Ahmmad, Calcutta.	Muhammad's journey to heaven, based on the Koran and the *Hadis*.	632

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher
						NEPALESE
	RELIGION.					
16	Galátiharu Lái Páwal Prerit ko Patra. The Epistles of Saint Paul to the Galatians. (T.)	Nepalese	Translated by Rev. A. Turnbull.	Religion C.	Printed and published at Lochnagar, Darjeeling.	Printed and published by N. L. Ráya.
						PERSIAN
	LANGUAGE.					
	The following works are designed for educational purposes.					
87	Gulzare Maktab. The school garden.	Persian	Hedayet Ali ...	Language	Lithographed and published at Arrah.	Lithographed by Muhammad Idris and published by Hedayet Ali.
88	Parsí Guzar. The Persian Instructor, Part I.	ditto ...	Muhammad Nabi Hasan.	ditto ...	ditto ditto ...	Lithographed by Muhammad Zuhural Huq and published by Muhammad Nabi Hasan.
						SANSKRIT
	DRAMA.					
951	Uttara Ráma Charita. The latter part of Rama's career. (R.)	Sanskrit.	Edited by Jibánanda Bidyáságara.	Drama ...	Printed at 56, Amherst Street, and published at 2, Ramanath Mazumdar's Lane, Calcutta.	Printed by Kshetra Mohan Mukharji, and published by Jibánanda Bidyáságar.
	LANGUAGE.					
952	Shabda Kalpa Druma. The tree of words that fulfils all desires. Nos. 20 and 21 (together).	ditto ...	Sir Raja Rádhákánta Deb.	Language	Printed and published at 71, Pathuriaghata Street, Calcutta.	Printed by Kaliprasanna Basu, and published by Baradá Charan Basu and Haricharan Basu.
953	Ditto ditto. Nos. 22 and 23 (together).	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
954	Kalápa Vyákaranam. A Sanskrit Grammar (R).	ditto ...	.....	ditto ...	Printed and published at the Dacca Syamantaka Press.	Printed by Gopinath Basak, and published by Kunjabihari Banik.
	The following work is designed for educational purposes.					
955	Sanskrita pátha. A Sanskrit Reader. Part I.	ditto ...	Harish Chandra Kabiratna.	ditto ...	Printed and published at 24, Girish Bidyáratna's Lane, Calcutta.	Printed by Shashi Bhushan Bhattácháryya, and published by the Author.
	LAW.					
956	Bibliotheca Indica. New Series. No. 705. Madan Párijáta. A work on Hindu Law. Fasc. V. (R.)	ditto ...	Edited by Madhu Sudan Smritiratna.	Law ..	Printed at 24, Girish Bidyaratna's Lane, and published at 57, Park Street, Calcutta.	Printed by Shashi Bhushan Bhattácháryya, and published by the Asiatic Society.
	MEDICINE.					
957	Satíka Chakradatta. The Medical work of Chakrapáni Datta, with a commentary. (R.)	Sanskrit	Edited by Hridaya Náth Tarkaratna.	Medicine, N.	Printed and published at 5, Nimtalá Ghát Street, Calcutta.	Printed and published by Bhuban Chandra Basák.
958	Bangasena Grantha. The Medical Work of Bangasena. (R.)	ditto ...	Bangasena ...	ditto ...	Printed at 75, Cotton Street, Calcutta, and published at Shahar Beri, district Rohtak.	Printed by Biswanáth Brahmachári, and published by Nanda Kumár Goswami.
	to have been lost. Nanda Kumar Goswami, a native physician of Beri in Rohtak in the Punjab, has after *Vaidyas* in India. He had very imperfect materials for his edition, and he was compelled therefore to Agasti Samhita. Bangasena recast it in its present form and gave it his own name. It contains many useful					
959	Sushruta. A system of medicine. (R.)	ditto ...	.....	ditto ...	Printed at 56, Amherst Street, and published at 2, Ramá Nath Mazumdar's Lane, Calcutta.	Printed by Kshetramohan Mukharji, and published by Jibánanda Vidyáságar.

Quarter ending 30th June '1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOK.									
1889.	Pages.					Rs. A. P.			
Mar., 15th	20	8vo ...	1st ...	1,000	Printed	0 1 0	Foreign Mission Committee of the Church of Scotland, Edinburgh.	.....	16
BOOKS.									
April, 7th	18	10× 6½	1st ...	500	Lithographed.	0 1 6	.....	An alphabetical primer	87
Mar , 20th	18	9× 5½	1st ..	1,000	ditto ...	0 1 0	.....	A Persian Grammar	89
BOOKS.									
April, 1st	268	8vo dy..	2nd ...	1,000	Printed	1 0 0	Jibánanda Bidyáságara, 2, Ramanath Mazumdar's Lane, Calcutta.	.....	951
April, 13th	64	4to rl '...	New	2,000	ditto ...	2 0 0	Baradá Charan Basu and Hari Charan Basu, 71, Pathuriaghata Street, Calcutta.	From *Tithikshaya* to *Dadhi Mandoda.*	952
May, 6th	64	4to rl ...	do. ...	2,000	ditto ..	2 0 0	ditto ...	From *Dadhimukha* to *Devara* ...	953
Mar., 22nd	72	12mo ...	2nd ..	3,000	ditto ...	0 8 0	.....	The chapter on declensions ...	954
Mar., 6th	60	12mo dy	11th..	2,000	ditto ...	0 4 0	Harish Chandra Kabiratna, 24, Girish Bidyaratna's Lane, Calcutta.	.....	955
April, 22nd	96	8vo dy...	1st ..	500	ditto ...	0 6 0	Asiatic Society, 57, Park Street, Calcutta.	The 5th and 6th chapters ...	956
May, 26th	109	8vo dy...	1st ...	500	ditto ...	0 8 0	.....	.....	957
April, 18th	1127	12mo rl	1st ..	500	ditto ...	12 0 0	Nanda Kumar Goswami, Shahar Beri, Rohtak.	Bangasena is quoted by all medical treatises current in Bengal. But the complete work of Bangasena was considered great search succeeded in completing the work by obtaining different chapters from different families of distinguished make his own emendations. Bangasena himself was the son of Gadádhar of Kántiká. The work was known as chapters on the water we drink, the locality we inhabit, &c.	958
„ 1st	927	8vo dy	3rd ...	1,000	ditto ...	4 0 0	Jibánanda Vidyáságara, 2, Ramá Náth Mazumdar's Lane, Calcutta.	.....	959

1	2	3	4	5	6	7
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						SANSKRIT
	MEDICINE—*concld.*					
960	Sushruta Samhitá. The medical work by Sushruta. No. 22. (R)	Sanskrit	Edited by Abinash Chandra Kabiratna.	Medicine, N.	Printed at 5, Simia Street, and published at 200, Cornwallis Street, Calcutta.	Printed by Gopalchandra Ghoshal, and published by the Editor.
	MISCELLANEOUS.					
961	Vidagdha Mukhamandanam. The Ornament of the mouth of the Witty People. (R.)	ditto ...	Edited by Basanta Kumár Kabirája.	Miscellaneous.	Printed and published at 21, Sitárám Ghosh's Street, Calcutta.	Printed and published by Shashibhushan Datta.
	POETRY.					
962	Níti Kusuman. The Flower of Morals.	ditto ...	Kalipada Mukharji.	Poetry ...	Printed and published at 23, Jugal Kishor Dás' Lane, Calcutta.	Printed and published by Udaya Charan Pal.
	RELIGION.					
963	Bhagabadgitá. Verses spoken by Krishna (R).	ditto ...	.....	Religion, H.	Printed and published at 55, Chitpore Road, Calcutta.	Printed and published by Kálidas Chakrabarti.
964	Brihat Nitya Karma Paddhati. A Large Recension of the work on the Process of Performing Daily Religious Ceremonies. (R.)	ditto ...	.....	ditto ...	Printed at 64, Balarám De's Street, and published at 98-3, Chitpore Road, Calcutta.	Printed by Rakhal Chandra Das, and published by Ram Kánái Das.
965	Nitya Karma Paddhati. The Process of Performing Daily Religious Duties.	ditto ...	.....	ditto ...	Printed at 2, Tarak Chatterj'i Lane, and published at 115, Chitpore Road, Calcutta.	Printed and published by Umesh Chandra Bhattácháryya.
966	Mahábháratam. The Mahábharata, No. 41. (R).	ditto ...	.....	ditto ...	Printed and published at 1, Rájá Gurudas's Lane, Calcutta.	Printed and published by Pratáp Chandra Raya.
967	Ditto ditto. No. 42. (R.)	ditto ..	.....	ditto ...	ditto ditto ...	ditto ditto ...
968	Champu Ramayana. The Ramayana in Prose and Verse. (R).	ditto ...	Bhoja Rájá ...	ditto ..	Printed at 56, Amherst Street, and published at 2, Rama Nath Mazumdar's Lane, Calcutta.	Printed by Kshetra Mohan Mukharji, and published by Jibánanda Vidyáságara.
969	Rig Vedasya Sayanácháryaviracbitam Madhaviya Vedartha-Prakáshákhyam Bháshyan. The Commentary on the Rigveda entitled Vedártha prakásha by Sáyana, Year I, Parts 1 and 2 together. (R).	ditto ..	Edited by Prasanna Kumar Vidyáratna.	ditto ...	Printed and published at 41, Patuatola Lane, Calcutta.	Printed by Umesh Chandra Ghosh, and published by the editor.
970	Ditto ditto. Year I. Parts 3 and 4 together (R).	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
971	Ditto ditto. Year II, Part 5.	ditto ..	ditto ...	ditto ...	Printed at 5, Ramá Náth Ghosh's Lane, and published at 5, Sita Rám Ghosh's Street, Calcutta.	ditto ditto ...
972	Brihat Nitya Karma Paddhati. A Large Recension of the Work on the Process of Performing Daily Religicus Ceremonies. (R)	ditto ..	Edited by Bipin Bihari Sil.	ditto ...	Printed at 833, and published at 113, Upper Chitpore Road, Calcutta.	Printed by Binod Bihari Sil, and published by Nader Chánd Sil.
973	Bibliotheca Indica. New Series. No. 710. The Varáha Purána Fasc. IX. (R.)	ditto ...	Edited by Pandit Hrishikesha Shástri	ditto ...	Printed at 24, Girish Vidyáratna's Lane, and published at 57, Park Street, Calcutta.	Printed by Shashibhushan Bhattácháryya, and published by the Asiatic Society.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
April, 16th	80	8vo rl ...	1st ..	1,000	Printed	1 0 0	Abinásh Chandra Kabiratna, 200, Cornwallis Street, Calcutta.	.....	960
May, 14th	24	12mo dy	1st ..	1,000	ditto ...	0 4 0	Basanta Kumár Kabirája, 37, Fauzdari Balakhana, Calcutta.	A book of riddles in Sanskrit ...	961
April, 19th	32	8vo dy.	1st ...	500	ditto ...	0 8 0	Udayacharan Pal, 23, Jugal Kishor Das' Lane, Calcutta.	A collection of short pieces containing good advice.	962
Mar., 23rd	151	32mo rl	1st ...	1,000	ditto ...	0 4 0	Kuladá Kinkar Ráya, 13, Rájá Naba Krishna's Street, Calcutta.	.....	963
May, 4th	36	12mo rl	Revised.	1,000	ditto ...	0 2 0	.....	.....	964
April, 27th	36	12mo rl	5th ...	1,000	ditto ...	0 2 0	Umesh Chandra Bhattácháryya, Calcutta.	.....	965
Mar., 16th	120	8vo dy	1st ...	4,000	ditto ...	.....	Pratáp Chandra Ráya.	Goes on with the *Anushásan-parba.*	966
„ 25th	120	8vo dy	1st ...	4,000	ditto ...	.....	ditto ..	ditto ditto ...	967
April, 1st	370	8vo dy	2nd ...	1,000	.....	1 0 0	Jivánanda Vidyasagara, 2, Ramanath Mazumdar's Lane, Calcutta.	*Champu* is a poem in prose and verse, written in praise of any one distinguished individual. Here the Ramayana has been recast in the form of a *Champu* Kábya.	968
Mar., 25th	154	8vo dy	1st ...	500	ditto ...	2 8 0	Prasanna Kumár Vidyáratna 41, Patuatolah Lane, Calcutta.	The preface by Sáyana and the commentary on 16 hymns.	969
April, 1st	160	8vo dy	1st ...	500	ditto ...	2 8 0	ditto ...	This part ends with the commentary on the 51st hymn.	970
May, 1st	80	8vo dy	1st ...	500	ditto ...	2 8 0	ditto ...	Ends with the commentary on the 64th hymn.	971
April, 19th	34	12mo rl	8th ..	1,000	ditto ...	0 2 0	Bipin Bihari Sil, Calcutta.	.....	972
May, 25th	96	8vo dy.	1st ...	500	ditto ..	0 6 0	The Asiatic Society, 57, Park Street, Calcutta.	The greatness of Someswar and other places of pilgrimage, of Tribeni and other places which are regarded as places of redemption, of the place where *Salgrám* stones are procurable, of Kurukshetra, of Hrishikesh, of Dwárká, of Mathura, &c.	973

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						SANSKRIT
	RELIGION—*concld.*					
974	Bibliotheca Indica. New Series. No. 702. Chaturvarga Chintámani Vol. III. Part II. Fasc. II. (R)	Sanskrit	Edited by Pandit Jogeswara Smritiratna, and Pandit Kámákhyánáth Tarkavágisha.	Religion H.	Printed at the Baptist Mission Press, and published at 57, Park Street, Calcutta.	Printed by G. H. Rouse, and published by the Asiatic Society.
975	Srirám Sahasranáma. The Thousand Names of Ráma. (R.)	ditto ...	.....	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
976	Ditto ditto ...	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
977	Mukunda Muktábali O Chátu Pushpánjali. Pearls for Mukunda and a Handful of Flowers of Coaxing. (R.)	ditto ...	Bùp Goswami	ditto ...	ditto ditto ...	ditto ditto ...
978	Sri Gangá Lahari. Verses on the Sacredness of the Ganges. (R).	ditto ...	Gajràj Sinha ...	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nritya Lál Sil.
979	Vishnu Sahasra Nâm. The Thousand Names of Vishnu. (R).	ditto ...	Bhágirathi Sathia.	ditto ...	Printed and published at the Cuttack Printing Company's Press.	Printed and published by the Cuttack Printing Company.
						URDU
	FICTION.					
261	Kissa Hiraman Totá. The Story of a Parrot of the Hiraman Species	Urdu ...	Enaet Ali Begl	Fiction ...	Lithographed and published at Arrah.	Lithographed by Zuhurul Huq, and published by Muhammad Abdus Sattar.
	to enter the dead body of an antelope and himself entered the lifeless body left by the King and ordered all he told the secret. The Queen then induced the pseudo-King to enter into the body of a dead cock, and the real					
	LAW.					
262	Majumia Zabete Dewani. The Civil Procedure Code. (T.)	ditto ...	Mehdi Hasan	Law ...	ditto ditto ...	Lithographed and published by Zuhurul Huq.
	RELIGION.					
263	Nuran-ala Nur. Light and more Light.	ditto ...	Shah Golam Najaf.	Religion, M.	Lithographed and published at the Union Press, Bankipore.	Lithographed and published by Sayyid Rahmuddin.
264	Sadatud Darain. Fi Etáátil Waledain. Obedience to Parents leads to fortune in this world and in the next.	ditto ...	Ilahi Bux ...	ditto ...	Lithographed at Arrah, and published at Patna.	Lithographed by Zuhurul Huq, and published by Hazi Sayad Jan.
						URIYA
	ART.					
	The following works are designed for educational purposes.					
631	Uriyá Copy Book. No. 1	Uriya ...	J. Elliot ...	Art ...	Printed and published at the Orissa Mission Press, Cuttack	Printed and published by J. F. Hill.
632	Ditto ditto. No. 3	ditto ...	ditto ...	do. ...	ditto ditto ...	ditto ditto ...
	FICTION.					
633	Padmámati (A Name) ...	ditto ...	Umesh Chandra Sarkar.	Fiction ...	Printed and published at the Cuttack Printing Company's Press.	Printed and published by the Cuttack Printing Company.
	on real facts. Durjodhan Das, an influential officer of the Rájá of Nilgiri, wanted to force Padmámati, the his inhuman treatment of Padmámati and her family reached the ears of Mr. Ricketts, the Magistrate, who					

Quarter ending 30th June 1889—continued.

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BOOKS – concluded.									
1889.	Pages					Rs. A. P.			
Mar., 16th	96	8vo dy.	1st ...	500	Printed	.. ...	Asiatic Society, 57, Park Street, Calcutta.	Determination of the time of the annual and other periodical ceremonies.	974
„ 25th	13	12mo ...	3rd ...	1,000	ditto ..	0 0 6	... ..	The title explains the object of the work.	975
„ 28th	11	12mo ...	2nd ...	1,000	ditto ...	0 1 0	.....	This is in the Bengali character	976
„ 26th	8	12mo ...	2nd ...	2,000	ditto ..	0 1 0	.....	Two works by Rúp Gosvami, one of the immediate disciples of Chaitanya.	977
„ 15th	13	12mo ...	2nd ...	2,000	ditto ..	0 0 6	.....	.....	978
May, 4th	14	12mo dy	5th ...	1,000	ditto ...	0 1 3	Bhagirath Satthia.	.....	979
BOOKS.									
Mar., 16th	24	10 × 6½	1st ...	1,500	Litho-graphed.	0 1 6	.....	A story of *Káyápalat*, or changing the person. A King knew the secret of changing his person, and taught it to his minister, who induced the King	261

antelopes to be killed. Then the King entered the person of a Hiraman parrot and came to the Queen, to whom King got an opportunity of re-entering his own person.

April, 1st	204	10 × 6½	2nd ..	500	ditto ...	1 0 0	.....	Act XIV of 1882 ...	262
Mar., 23rd	56	8vo ...	1st ...	500	ditto ...	0 7 0	Shah Golam Najaf, Bankipore.	Suggestion of certain explanations of some of the most obscure expressions and passages in the Bible.	263
April, 10th	48	10 × 6½	1st ...	1,000	ditto ...	0 4 0	.....	The title explains the object of the work.	264
BOOKS.									
May, 18th	28	Double foolscap.	3rd ...	2,000	ditto ...	0 2 0	Orissa Mission Press.	.....	631
„ 18th	31	ditto ...	5th ...	2,000	ditto ...	0 2 0	ditto ...	... .	632
Mar., 22nd	122	12mo dy	1st ...	1,000	ditto ...	0 8 0	Umesh Chandra Sarkar.	The writer thinks that this is the first original work of fiction in Uriya. The story is based	633

daughter of Jagu Patwari, to marry him. He was a wicked man and fond of oppressing the raiyats. The story of instituted a prosecution against him and got him severely punished for his offence.

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						URIYA
	HISTORY (INCLUDING GEOGRAPHY).					
	The following works are designed for educational purposes.					
634	Sankshipta Bhárat Itihás. A Short History of India.	Uriya ..	Ram Chandra Birbar, and Hari Chandan Mahíndra Bahadur,	History (including geography).	Printed and published at the Orissa Mission Press.	Printed and published by J. F. Hill.
635	Práimeri Bhugol. Primary Geography.	ditto ..	Trilochan Mishra.	ditto ..	ditto ditto ..	ditto ditto ...
	LANGUAGE.					
	The following works are designed for educational purposes.					
636	Barna Bodhak. An Alphabetical Primer. Parts I and II (together.)	ditto .	Gobinda Rath	Language	Printed and published at the Printing Company's Press, Cuttack.	Printed and published by the Cuttack Printing Company.
637	Chaturtha Páth. The Fourth Number Reader.	ditto ..	Sitanath Ráya	ditto ..	ditto ditto ...	ditto ditto ...
638	Pratham Páth. Reader No. 1.	ditto ...	Jagannath Rao	ditto ...	Printed and published at the Mission Press, Cuttack.	Printed and published by J. F. Hill.
	MISCELLANEOUS.					
639	Sáhitya Sammilani Sabhár Samálochaná. A Review of the proceedings of the Literary Society entitled Sáhitya Sammilani Sabhá.	ditto ..	Dayánidhi Shástri.	Miscellaneous.	Printed and published at the Orissa Patriot Press.	Printed and published by Madanmohan Náyak.
	The following works are designed for educational purposes.					
640	Praimeri Jamidari Mahajani Hisáb. An Elementary work on Zemindari and Mahajani Accounts.	ditto ...	Jagannath Rao	ditto ...	Printed and published at the Orissa Mission Press Cuttack.	Printed and published by J. F. Hill.
	POETRY.					
641	Prabhát Abakásh. Morning Leisure.	ditto ..	Bhagabat Prasad Dau.	Poetry ...	Printed and published at the Cuttack Printing Company's Press.	Printed and published by the Cuttack Printing Company.
642	Chaupadi Mála. A Collection of Verses in the *Chaupadi* Metre.	ditto ..	Gobardhan Patnaik.	ditto ..	ditto ditto ..	ditto ditto ...
643	Balabodh Koili. The Cuckoo addressed on the subject of theEarly Sports of Krishna.	ditto ...	Agani Naik ...	ditto ..	Printed and published at the Victoria Press, Cuttack.	Printed and published by Abhin Nayak.
644	Navánurág. New Love	ditto ...	Gobinda Rath	ditto ..	ditto ditto ...	ditto ditto ...
645	Berá Parikramá O Gundichá Bíja. The Perambulation of the City of Puri and the Car Festival.	ditto ...	.....	litto ..	Printed and published at the Printing Company's Press, Balasore.	Printed by Gobinda Chandra Patnaik and published by Bhagawan Chandra Das.
646	Kálí Dalan. The Suppression of the Serpent-God Kali or Kálíya.	ditto ..	Lakshman Nayak.	litto ...	Printed and published at the Orissa Patriot Press.	Printed and published by Agani Náyak.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size	First second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs A P.			
April 24th	192	12mo dy	1st ..	1,000	Printed	0 8 0	Ram Chandra Birbar, &c., Talchera.	From ancient times down to the present day	634
Mar. 21st	122	12mo dy	1st ...	2,000	ditto ...	0 5 0	Trilochan Mishra, Third Assistant High School, Sambalpur.	Designed for the use of the 3rd, 4th, and 5th classes of Uriya schools.	635
May 21st	44	D. F. 16	9th ...	10,000	ditto ...	0 1 0	The Author ...	.....	636
June 6th	7	12mo dy.	1st ...	1,000	ditto ...	0 6 0	ditto ..	Moral lessons ...	637
April 24th	38	12mo dy.	4th ...	2,000	ditto ...	0 1 0	ditto ..	An illustrated alphabetical primer	638
„ 5th	9	8vo dy...	1st ..	50	ditto ...	.....	ditto ..	Contains a criticism of Bhásha-darsha, a work on Uriya Grammar.	639
May 8th	25	12mo dy	2nd ..	1,000	ditto ..	0 1 6	ditto ...	.....	640
Mar. 13th	8	12mo dy	5th ...	2,000	ditto ...	0 1 0	ditto ..	Jashoda's exhortations to Krishna to leave his bed.	641
April 22nd	42	12mo dy	1st ..	1,000	ditto ..	0 3 0	ditto ...	The exploits of Krishna at Brindában.	642
Mar. 18th	9	16mo foap	1st ..	1,000	ditto ..	0 0 6	.....	Jashodá addresses her favourite cuckoo on the subject of the early sports of Krishna, after his departure for Mathurá.	643
June 6th	18	16mo dy	1st ..	1,000	ditto ..	0 1 0	.....	The sports of Krishna and Rádhá.	644
Jan. 25th	14	8vo ..	1st ..	500	ditto ..	0 0 9	.....	.....	645
.....	...	...	...	...	ditto ...	0 1 0	.....	The title explains the object of the work.	646

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						URIYA
	RELIGION.					
647	Mahábhárata Banaparba. The Third Book of the Mahábhárata. (T.)	Uriya ..	Fakir Mohan Senápati.	Religion H.	Printed and published at the Balasore Printing Company's press.	Printed by Gobinda Chandra Patnaik, and published by Bhagaban Chandra Dás.
648	Puránprakáshiká. The Publication of Puranas, Part XIV. The Brahma Baibartta Mahápurán. The Puran describing the Evolution of the World from Brahma. (T.)	ditto ...	Rághunath Ghosh.	ditto ..	Printed and published at the Victoria Press, Cuttack.	Printed and published by Abhin Náyak.
	SCIENCE (MATHEMATICAL).					
	The following works are designed for educational purposes.					
649	Jyámitik Anushilani Samarthan. Solutions of Geometrical Deductions.	ditto ...	Chintámani Dás and others.	Science (Mathematical).	ditto ditto ..	ditto ditto ...
650	Ganit Prabesh. An Introduction to Mathematics.	ditto ...	Sitánath Ráya	ditto ...	ditto ditto ...	ditto ditto ...
651	Anka Prabesh. An Introduction to Mathematics.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
652	Utkal Ganitánka. An Uriya Arithmetic.	ditto ...	J. S. Ruto and C. Acharyya	ditto ...	ditto ditto ..	ditto ditto ...
653	Sulabh Jyámati. Easy Geometry.	ditto ...	Madhusudan Rao and Sitanath Ráya	ditto ...	Printed and published at the Orissa Mission Press.	Printed and published by J. F. Hill.
654	Anka Sútra. The Principles of Arithmetic.	ditto ...	.....	ditto ...	Printed and published at the Balasore Printing Company's Press.	Printed by Gobinda Chandra Patnayak, and published by Bhagban Chandra Dás.
	SCIENCE (NATURAL AND OTHER).					
	The following work is designed for educational purposes.					
655	Svástha Sádhan. The Way to Health.	ditto ...	Shyam Sundar Patnayak	ditto ..	Printed and published at the Orissa Mission Press.	Printed and published by J. F. Hill.
						I—ARABIC AND MUSALMANI.
	RELIGION.					
13	Ahákámossalát. All about Namaz.	Arabic and Musalmani-Bengali.	Muhammad Fayazuddin.	Religion M.	Printed and published at the Azizia Press, Dacca.	Printed and published by Basanta Kumar De.
						II.—ARABIC AND
15	Majmuia Adiyat. A Collection of Prayers.	Arabic and Urdu.	.....	ditto ...	Lithographed at Arrah, and published at Patna.	Lithographed by Zuhurul Huq, and published by Hazi Sayyad Jan.
	LANGUAGE.					III—BENGALI AND
477	An enlarged English and Bengali Dictionary.	Bengali and English.	Purna Chandra Basu.	Language	Printed at 23 Jugol Kisor Dás' Lane, and published at 54-1, College Street, Calcutta.	Printed by Udaya Charan Pál, and published by the author.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public	Name and residence of proprietor of copyright, or any portion of it.	Remarks	Number
BOOKS—concluded.									
1889.	Pages.					Rs. A. P.			
Mar. 6th	96	12mo ...	1st ...	1,000	Printed	0 10 0	.....	A new translation of the Mahábhárata.	647
„ 17th	24	8vo rl	1st ..	1,000	ditto .	0 4 0	.....	A metrical translation of the Brahma Baibartta Purán from the original Sanskrit.	648
May 16th	56	12mo dy	1st ...	1,000	ditto ...	0 4 6	.....	.....	649
April 8th	98	16mo rl	1st ...	500	ditto ...	0 2 6	.....	.....	650
„ 8th	98	16mo rl	1st ...	500	ditto ...	0 2 6	.....	.....	651
„ 12th	108	12mo dy	1st ...	1,000	ditto ...	0 2 0	.....	.....	652
„ 12th	88	12mo ...	1st ...	1,000	ditto ...	0 6 0	Sitanath Ráya, Balasore.	.....	653
Mar. 4th	12	8vo ...	4th ...	500	ditto ...	0 0 9	.....	.....	654
Mar. 27th	78	12mo dy	1st ...	5,000	ditto ...	0 1 0	Shyám Sundar Patnayak, Cuttack.	.....	655
BENGALI BOOK.									
1889.	Page.								
Mar. 22nd	89	8vo ...	2nd ...	1,000	ditto ..	0 6 0	.....	.....	13
URDU BOOK.									
1889.	Page.								
April 10th	64	5×3	1st ...	1,000	Lithographed.	0 3 0	.....	.....	15
ENGLISH BOOKS.									
1889.									
April 20th	788	8vo rl ...	1st ...	2,000	Printed	2 0 0	Purna Chandra Basu, 54-1, College Street, Calcutta.	The distinguishing features of the present work are (1) that many illustrations have been given; (2) that many phrases and idioms have been explained; (3) that a list of abbreviations have been given with their explanations.	477

1	2	3	4	5	6	7
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						III.—BENGALI AND
	LANGUAGE—*contd.*					
478	Barat's Pronouncing Etymological and Pictorial Dictionary. Part LXXXII.	Bengali and English.	L. N. Mallik	Language	Printed and published at 92, Bowbazar Street, Calcutta.	Printed by Kisori Mohan Sen, and published by Trailokya Nath Barát.
479	Ditto ditto. Part LXXXIII.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
480	Ditto ditto. Part LXXXIV.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
	The following works are designed for educational purposes.					
481	Inráji Shikshak. The English Teacher. Part I.	ditto ...	Jogindra Chandra Dás.	ditto ...	Printed at 23, Jugal Kisor Dás' Lane, Calcutta, and published at Bantra.	Printed by Udaya Charan Pál, and published by the author.
482	A Key to the Juvenile Reader.	ditto ...	.....	ditto ...	Printed and published at 92, Bowbazar Street, Calcutta.	Printed and published by Bámá Charan Majumdár.
483	A Modern Spelling Book	ditto ..	Golok Chandra Dás.	ditto ...	Printed at 46, Panchánan tala Lane, Calcutta and published at Nágarpur Mymensing.	Printed by Sanyal and Company, and published by K. C. Saha Pramanik.
484	Ditto ditto ...	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
485	The Mentorial Notes on the Middle Class Reader.	ditto ...	P. Ghosh ...	ditto ...	Printed at 46, Panchánantala Lane, and published at 1, College Street, Calcutta.	Printed by Sanyal and Company, and published by the Saraswati Library
486	The Beginner's English Grammar in Bengali ...	ditto ...	Mohini Mohan Basu.	ditto ...	Printed and published at 46, Panchánantala Lane, Calcutta.	Printed and published by Sanyal and Company.
487	A Series of Graduated Translation Exercises, Part I.	ditto ...	L. A. Stapley	ditto ...	Printed at 6, Simla Street, and published at 25, Cornwallis Street, Calcutta.	Printed by Premchand Shaha, and published by B. Banerji and Company.
488	A Key to Royal Reader, No. 4, Part I.	ditto ...	Kripanath Majumudar.	ditto ...	Printed at 23, Panchánan tala Lane, Calcutta, and published at Darbhanga.	Printed by Rambrahma Kumar, and published by the Darbhanga Trading Company.
489	Elementary Lessons on English Composition.	ditto ...	Gangádhar Banerji.	ditto ...	Printed 63-3, Mechhua bazar Street, and published at 55, College Street, Calcutta.	Printed by Gopal Chandra Niyogi, and published by Jogesh Chandra Banerji.
490	Rajabhásha. The Queen's English.	ditto ...	Upendra Nath Mukharji.	ditto ...	Printed at 107, Bowbazar Street, and published at 3, Beadon Street, Calcutta.	Printed by Umácharan Chakrabartti, and published by Upendranath Mukharji.
491	Helps to Students ...	ditto ...	Ananda Mohan Datta.	ditto ...	Printed at 24, Beadon Street, and published at 64, College Street, Calcutta	Printed by Mani Mohan Rakshit, and published by Mahesh Chandra Bhattácháryya.
492	An Elementary Practical Grammar of the English Language.	ditto ..	Ramánáth Sarasvati.	ditto ...	Printed and published at 24, Girish Bidyáratna's Lane, Calcutta.	Printed by Shashi Bhushan Bhattácháryya, and published by Harish Chandra Kabiratna.
493	How to Translate Idiomatically from Bengali into English.	ditto ...	Dhanaballabh Set, M.A.	ditto ...	Printed at 108, Baranasi Ghosh's Street, and published at 64, College Street, Calcutta.	Printed by Nabin Chandra Lal, and published by Dás Gupta and Company.
494	An Exhaustive Note on the Bengali Entrance Course, 1890.	ditto ..	Purna Chandra Gupta.	ditto ...	Printed at 153, Cornwallis Street, and published at 13, Nebutala Lane, Calcutta.	Printed by Gopal Chandra Chakrabartti, and published by S. Biswás.
495	A Complete Key to Murray's Spelling Book.	ditto ...	Bihari Lál Ráya Chaudhuri.	ditto ...	Printed and published at 22-2, Jhámápukar Lane, Calcutta.	Printed and published by Baradá Prasád Majumdár.
496	A Complete Key to Poetical English Reader No. II.	ditto ...	Kailash Chandra Datta, M.A.	ditto ...	Printed at 22 2, Jhámápukur Lane, and published at 54-1, College Street, Calcutta.	ditto ditto ...

Quarter ending 30*th June* 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
ENGLISH BOOKS—continued.									
1889,	Pages.					Rs. A. P.			
April 15th	32	4to dy...	1st ..	1,000	Printed	0 6 0	Trailokya Nath Barát, 12, Pataldanga Street, Calcutta.	English from *Soda* to *Sounding rod*; and Bengali from *Ruchaka* to *Rogya*.	478
„ 20th	32	4to dy...	1st ...	1,000	ditto ...	0 6 0	ditto ...	English from *Soundless* to *Spindle*, and Bengali from *Rochaka* to *Lankd*.	479
May 5th	32	4to dy ..	1st ...	1,000	ditto ...	0 6 0	ditto ...	English from *Spindle-legged* to *Spring time*, and Bengali from *Lankd* to *Loshuniya*.	480
April 16th	175	8vo dy...	1st ...	1,000	ditto ...	1 4 0	Chuni Lal Mukharji and Jogindra Chandra Dás.	.....	481
„ 30th	232	12mo ...	1st ...	1,000	ditto ...	0 10 0	Chárn Chandra Majumdar, Jamua.	.....	482
Mar. 17th	106	12mo dy	3rd ...	10,000	ditto ...	0 4 0	Kisor Chandra Saha Pramanik, Nagarpur, Mymensing.	.....	483
April 26th	106	12mo dy	4th ...	2,000	ditto ...	0 4 0	ditto ...	.....	
„ 19th	84	12mo dy	1st ...	1,000	ditto ..	0 4 0	Purna Chandra Ghosh, 1, College Street, Calcutta.	.....	484 485
„ 24th	53	16mo d fcap.	2nd ...	3,000	ditto ..	0 3 0	Mohini Mohan Basu, Bogra.	.....	486
„ 10th	44	8vo dy...	4th ...	2,000	ditto ...	0 6 0	Kali Krishna Banerji, 18, Duff Street, Calcutta.	.....	487
„ 8th	95	8vo dy...	2nd ...	1,000	ditto ...	0 10 0	Kripa Nath Majumdar, Darbhanga.	.....	488
„ 11th	116	16mo s. rl.	13th...	6,000	ditto ..	0 6 0	Gangádhar Banerji.	.....	489
„ 15th	106	12mo dy	1st ...	2,000	ditto ..	0 10 0	Aghornath Banerji, Bowbazar, Calcutta.	A guide to the art of writing and speaking English correctly.	490
„ 20th	176	12mo ...	10th...	1,100	ditto ...	0 10 0	.....	.....	491
April 23rd	72	12mo dy	New	1,000	ditto ...	0 5 0	Thákamani Dási, Gocháran, 24-Pergunnahs.	.....	492
May 2nd	118	12mo ...	2nd ...	1,000	ditto ...	0 8 0	Dhanaballabh Set, M.A., Balaram De's Street, Calcutta.	.....	493
„ 24th	116	12mo dy.	1st ..	500	ditto ...	0 14 0	Purna Chandra Gupta, 13, Nebutala Lane, Calcutta.	.....	494
Mar. 29th	38	12mo ...	6th ...	2,000	ditto ...	0 5 0	Baradá Prasád Majumdár, 22-2, Jhámápukur Lane, Calcutta.	.....	495
April 20th	154	12mo ...	6th ...	1,000	ditto ...	1 0 0	ditto ...	.....	496

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						III.—BENGALI AND
	LANGUAGE—*concld.*					
497	A Complete Key to Royal Reader No. II.	Bengali and English.	Purna Chandra Chakrabartti.	Language.	Printed at 22-2, Jhámápukur Lane, and published at 54-1, College Street, Calcutta.	Printed and published by Baradá Prasád Majumdár.
498	Key to Poetical English Reader No. I.	ditto ...	G. Mazumdár	ditto ...	ditto ditto ..	ditto ditto ...
499	A Complete Key to Poetical Class Book No. I.	ditto ...	Annadá Prasád Mazumdár.	ditto ..	ditto ditto ..	ditto ditto ...
500	A Complete Key to Douglas's English Reader No. IV.	ditto ...	Bimalá Charan Ghosh.	ditto ...	ditto ditto ...	ditto ditto ...
501	A Complete Key to Easy Selections.	ditto ...	Nrisinha Chandra Mukhopádhyáya.	ditto ..	ditto ditto ...	ditto ditto ...
502	The first step in Grammar.	ditto ..	Akrur Chandra Sen.	ditto ...	Printed and published at the Adarsha Press, Dacca.	Printed by Lakshman Basák, and published by Akrur Chandra Sen.
503	Middle Class English Composition.	ditto ...	Brindában Dhar.	ditto ..	Printed and published at the Girish Press, Dacca.	Printed and published by Kalimuddin.
504	The Child's Grammar ...	ditto ...	Kishori Mohan Basu.	ditto ...	Printed and published at the East Bengal Press, Dacca.	Printed and published by K. D. Basák.
505	Boys' Guide ...	ditto ...	B. K. Datta and B. C. Basu.	ditto ..	Printed and published at Barisal.	Printed by Hara Kumar Kar, and published by B. K. Datta and B. C. Basu.
						IV.—BENGALI AND
	RELIGION.					
1	Buddha Bhajaná. The worship of Buddha.	Bengali and Pali.	Compiled by Bhagirath Chandra Baruá.	Religion, Bhuddist.	Printed and published at Andarkilla, Chittagong.	Printed by Jagat Chandra Dás, and published by Bhagirath Chandra Baruá.
						V.—BENGALI AND
	LANGUAGE					
	The following works are designed for educational purposes.					
1371	Byákaran Kaumudi A Sanskrit Grammar for Beginners. Parts II and III (together).	Bengali and Sanskrit.	Iswar Chandra Bidyáságar.	Language.	Printed at 62, Amherst Street, and published at 25, Sukea's Street, Calcutta.	Printed by Jajneswar Mukharji, and published by the Calcutta Library.
1372	Sanskrita Byákaran, Upakramanika. Introduction to Sanskrit Grammar.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1373	Byákaran Samgraha Elements of Sanskrit Grammar.	ditto ...	Heramba Náth Tattvaratna.	ditto ...	Printed and published at 24, Giris Bidyáratna's Lane, Calcutta.	Printed by Sashi Bhushan Bhattácháryya, and published by Harish Chandra Kabiratna.
1374	Sudhákar Byákaran. A Sanskrit Grammar.	ditto ...	Shyámá Charan Kabiratna.	ditto ..	Printed and published at 24, Beadon Street, Calcutta.	Printed and published by Mani Mohan Rakshit.
1375	Kaláp Byákaranam. A Sanskrit Grammar. (T.)	ditto ...	Edited by Kálisha Chandra Sen Gupta.	ditto ...	Printed at 113, Musjidbari Street, and published at 35, Maniktala Street, Calcutta.	Printed by Jogendra Náth Mallik, and published by Kálisha Chandra Sen Gupta.
	LAW.					
1376	Mitákshará. A treatise on Hindu Law. (T.)	ditto ...	Translated by Aghor Náth Tattvanidhi.	Law ...	Printed and published at Burdwan.	Printed by Purushottam Deb Chattaráj, and published by H. R. Reily and Ban Bihari Kapur.

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ENGLISH BOOKS—concluded.									
1889.	Pages.					Rs. A. P			
April 20th	36	12mo ...	7th ...	2,000	Printed	0 4 0	Barada Prosaud Majumdar, 22-2, Jhámápukur Lane, Calcutta.	.....	497
„ 21st	84	12mo ...	5th ...	1,000	ditto ...	1 0 0	ditto ...	.....	498
„ 25th	65	12mo ..	2nd ...	1,000	ditto ...	0 4 0	ditto ...	.....	499
May, 20th	156	12mo ...	4th ...	1,000	ditto ..	0 10 0	ditto ...	.....	500
„ 25th	264	12mo ...	6th ...	2,000	ditto ..	1 0 0	ditto ...	.....	501
„ 15th	69	12mo ...	New.	1,000	ditto ...	0 5 0	.....	.....	502
April, 1st	92	12mo ...	5th ...	2,000	ditto ...	0 6 0	.....	.....	503
June, 2nd	84	12mo ...	2nd ...	1,000	ditto ..	0 5 0	.....	.....	504
May, 17th	50	10 × 6	2nd ...	1,000	ditto ..	0 4 0	.....	.....	505
PALI BOOK.									
1889.									
Mar., 25th	31	12mo dy	1st ...	1,000	ditto ...	0 2 0	Bhagirath Chandra Baruá, Gujárá.	The daily religious prayers, invocations, and vows of an orthodox Buddhist of the Southern School The present work differs from a similar work in Ceylon entitled Buddha Yáda Hilla, or the Buddhist Faith, in having the short *a* always lengthened into *á*, as Dhamma into Dhámmá.	1
SANSKRIT BOOKS.									
1889.									
Mar., 26th	204	12mo ...	24th...	2,000	ditto ...	1 0 0	Iswar Chandra Bidyáságar, 25, Brindában Mallik's Lane, Calcutta.	.....	1371
April, 1st	139	12mo ...	35th ..	6,000	ditto ...	0 8 0	ditto ...	.....	1372
„ 7th	312	12mo dy	9th ...	2,000	ditto ...	1 0 0	Heramba Náth Tattwaratna, Grey Street, Calcutta.	.....	1373
„ 27th	294	12mo dy	1st ...	1,000	ditto ...	1 8 0	.....	The writer follows the system of Pandit Iswarachandra Vidyáságara, and appends a list of grammatical roots at the end of his work.	1374
May, 10th	66	16mo rl.	1st ...	600	ditto ...	0 4 0	.....	The rules of Sarba Barmá with the *vritti* of Durga Sinha and a Bengali translation. It contains the chapter on Sandhi only.	1375
1295.									
Magh., 23rd.	476	8vo rl...	1st ...	500	ditto ...	.....	Burdwan Raj Estate.	The chapter on expiations only. It contains the text of Jajnavalkya and a Bengali translation made according to Bijnáneswar's commentary entitled the Mitákshará.	1376

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language.)	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name of firm or printer, and name or firm of publisher.
						BENGALI AND
	Medicine.					
1377	Sánubád Nárijnán. The knowledge of the Pulse, with a translation. (T.)	Bengali and Sanskrit.	Edited by Rámbramha Sen.	Medicine, N.	Printed at 2, Tárak Chatterji's Lane, and published at 115, Chitpur Road, Calcutta.	Printed by Nabakumár Bose, and published by Umesh Chandra Bhattácháryya.
1378	Nútan Bhaishajya Dhanvantari. A treatise on Hindu Medicine (T.)	ditto ..	Translated by Chandra Kumár Kabibhusan.	ditto ...	ditto ditto ...	Printed by Nabakumár Bose, and published by Bhattácháryya and Company.
	Miscellaneous.					
1379	Jyotish Kalpadruma. An Astrological Compilation. Part 16. (T.)	ditto ..	Edited by Rasik Mohan Chatterji.	Miscellaneous.	Printed and published at 5, Simla Street, Calcutta.	Printed by Gopál Chandra Ghosál, and published by Rasik Mohan Chatterji.
1380	Ditto ditto. Part 17. (T.)	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
1381	Ditto ditto. Part 18. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1382	Sánubád Rati Shástra The Science of Love, with a translation. (T.)	ditto ...	Translated by Beni Mádhab Nyáyaratna.	ditto ...	Printed and published at 69, Nimu Gosain's Lane, Calcutta.	Printed by Káli Prasanna Ráya, and published by Sri Nath Láhá.
1383	Niti Payodhi. The Ocean of Morality. (T.)	ditto ...	Kailás Chandra Mazumdár.	ditto ...	Printed and published at the Giris Press, Dacca.	Printed by Kalimuddin, and published by Hari Náráyan Mitra.
	Philosophy.					
1384	Vedánta Darshanam. The Vedanta Philosophy. Part 15. (T.)	ditto ...	Translated by Kálibar Vedántabágish	Philosophy	Printed at 22, Old Baitakkhana 2nd Lane, and published at 2, Nursing's Lane, Calcutta.	Printed by Ramá Náth Ghosh, and published by Mati Lál Ghosh.
1385	Ditto ditto. Part 16. (T.)	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
	Religion.					
1386	Srimad Bhágabatam, Part 65. (T.)	ditto ...	Translated by Rám Náráyan Bidyáratna.	Religion H.	Printed and published at Berhampore.	Printed by Rám Náráyan Bidyáratna, and published by Rájballabh Sháhá
1387	Ditto ditto Part 66. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1388	Ditto ditto Part 67. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1389	Joga-Básistha Rámáyanam. The Rámáyan containing Lectures on Yoga by Basistha. Part 7. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1390	Ditto ditto Part 8. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1391	Adhyátma Rámáyanam. The Rámáyan in a Spiritual Form. (T.)	ditto ...	.....	ditto ..	Printed and published at 34 1, Kalutola Street, Calcutta.	Printed and published by Bihári Lál Sarkár.
1392	Srimad Debi Bhágabatam Mahápuránam. One of the Mahápurans. Part 8. (T.)	ditto ..	Edited by Hari Charan Basu.	ditto ...	Printed and published at 71, Pathuriaghata Street, Calcutta	Printed by Káli Prasanna Basu, and published by Hari Charan Basu.
1393	Ditto ditto Part 9. (T.)	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
1394	Ditto ditto Part 10. (T.)	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
1395	Ditto ditto Part 11. (T.)	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or litho-graphed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
SANSKRIT BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
May, 5th	44	12mo dy	1st ...	1,000	Printed	0 4 0	Umesh Chandra Bhattácháryya, Calcutta.	Directions for feeling the pulse The writer says that the native physicians know the art of feeling the pulse to perfection, while the students of the Medical College seem to neglect this most important branch of medical science.	1377
„ 7th	512	8vo rl	1st ..	1,000	ditto ..	3 0 0	ditto ...	A new compilation from standard works on Hindu Medicine, the text being in Sanskrit, and the translation in Bengali. It contains the symptoms of diseases, their pathology, and the medicines to be applied for their cure.	1378
April 3rd	96	8vo rl	1st ...	1,000	ditto ..	1 0 0	Rasik Mohan Chatterji, 5 Simla Street, Calcutta.	Contains a portion of the Bhrigu Sanhita, and of the Tajika by Nilakantha. It contains a complete work entitled *Panchasvará*, which gives directions for calculating astrologically the longevity of man. The five *swaras* are arbitrarily determined by placing certain consonants with vowels below the numbers indicating the *rashis* or signs of the zodiac.	1379
May, 2nd	96	8vo rl	1st ...	1,000	ditto ...	1 0 0	ditto ...	Contains short instalments of a number of works on astrology.	1380
June, 1st	96	8vo rl	1st ...	1,000	ditto ...	1 0 0	ditto ...	Contains a treatise on palmistry...	1381
May, 11th	160	12mo dy	1st ...	1,000	ditto ..	2 0 0	Sri Náth Láhá, Calcutta.	Contains information on a variety of subjects connected with the preservation of infant life, mystic formulæ, *wustijog* medicines, &c.	1382
June, 12th	41	12mo ...	1st ...	1,000	ditto ...	0 4 0	.....	Contains Sanskrit verses with Bengali translation for regulating the conduct of men from conception to manhood.	1383
April 1st	40	8vo dy	1st ..	1,000	ditto ...	0 5 0	Mati Lál Ghosh, 2, Nursing's Lane, Calcutta.	The aphorisms of Bádaráyana, with Sankar's *bhdshya*, the *bhamati*, an abridged commentary by the editor and a Bengali translation by him.	1384
May, 22nd	40	8vo dy	1st ...	1,000	ditto ...	0 5 0	ditto ...	ditto ditto.	1385
Mar., 22nd	40	4to ...	2nd ...	4,000	ditto ...	.....	.....	With commentaries of Sridhar Svámí, Jiva Gosvami, and Vishvanáth Chakrabarti. Goes on with the tenth Skandha.	1386
„ 22nd	40	4to ...	2nd ...	4,000	ditto ...	.....	.....	ditto ditto ...	1387
„ 22nd	40	4to ..	2nd ...	4,000	ditto ...	.....	.....	ditto ditto ...	1388
„ 23rd	80	8vo ...	1st ...	500	ditto ...	0 12 0	.....	With commentary entitled *Prakásha*, and a Bengali translation.	1389
„ 23rd	80	8vo ...	1st ...	500	ditto ...	0 12 0	.....	ditto ditto ...	1390
„ 25th	266	8vo rl	1st ...	9,000	ditto ...	1 8 0	Jogendra Chandra Bose, 31-1, Kalutola Street Calcutta.	The divinity of Rama has been put forward in a more pronounced form than in the work of Valmiki.	1391
„ 15th	72	8vo rl	1st ...	1,000	ditto ...	0 6 0	Hari Charan Basu, 71, Pathuriaghata Street, Calcutta.	The text, the commentary entitled *Tilaka* and a Bengali translation.	1392
„ 27th	72	8vo rl	1st ...	1,000	ditto ...	0 6 0	ditto ...	ditto ditto ..	1393
April, 10th	72	8vo rl	1st ...	1,000	ditto ...	0 6 0	ditto ...	ditto ditto ...	1394
May, 1st	72	8vo rl	1st ...	1,000	ditto ...	0 6 0	ditto ..	ditto ditto ...	1395

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI AND
	RELIGION—*concld.*					
1396	Mahabharatam. Part 180 (T.)	Bengali and Sanskrit.	Translated by Sridhar Churámani.	Religion H	Printed and published at Serampore.	Printed by Thákurdás Ghosál, and published by Umesh Chandra Bhattácháryya.
1397	Sánubád Brihat Tantra Kosha. A Tantric Compilation with a Translation. (T.)	ditto ...	Compiled by Káli Prasanna Bidyáratna.	ditto ...	Printed at 1, Nimu Gosain's Lane, and published at 1, Garanhata Street, Calcutta.	Printed by Mákhan Lál Ghosh, and published by Ganesh Chandra Ghosh.
1398	Sri Bhagabati Gita. A Treatise on the Greatness of Durga. (T.)	ditto ...	Translated by Rám Ratna Bhattácháryya	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
1399	Bhakti Lahari. Waves of *Bhakti*. (T.)	ditto ...	Krishna Chandra Bipra.	ditto ...	Printed and published at 24, Giris Bidyaratna's Lane, Calcutta.	Printed by Shashi Bhushan Bhattácháryya, and published by Harish Chandra Kabiratna.
1400	Smarana Mangal. Remembrance of Krishna's Auspicious Sports at Brindaban. (R.)	ditto ...	Narottam Dás	ditto ...	Printed and published at 99, Ahiritola Street, Calcutta.	Printed and published by Nrityalál Sil.
1401	Atma Bodha. Knowledge of the Soul. (T.)	ditto ..	Translated by Prasád Dás Gosvami.	ditto ...	Printed and published at Serampore.	Printed and published by Jitendra Nath Dé.
1402	Satya Náráyan Bratam. The worship of Satya Narayana.	ditto ...	Compiled by Mahendra Náth Bidyá ratna.	ditto ...	Printed at 147, Upper Chitpore Road, Calcutta, and published at Sahara.	Printed by Umesh Chandra Pál, and published by Mahendra Nath Bidyáratna.
						VI.—ENGLISH AND
	LANGUAGE.					
	The following work is designed for educational purposes.					
45	Shikshá Mani. English-Hindi Vocabulary.	English and Hindi.	Dina Náth Dev	Language	Printed at 75, and published at 132, Cotton Street, Calcutta.	Printed by Bisva Náth Brahmachári, and published by Mungi Lál Chiráwálá.
						VII.—ENGLISH AND
	LANGUAGE.					
	The following work is designed for educational purposes.					
62	Niti Pátham. A Sanskrit Reader. (R.)	English and Sanskrit.	Compiled by Shyámá Charan Kabiratna.	ditto ...	Printed at 21, Sitárám Ghosh's Street, and published at the New Indian School, Calcutta.	Printed by Shashi Bhushan Datta, and published by Shyámá Charan Kabiratna.
						VIII.—ENGLISH AND
	LANGUAGE.					
	The following work is designed for educational purposes.					
34	Key to the New Royal Reader. No. I.	English and Uriya.	Akshaya Kumár Ghosh and Srikrishna Mahápátra.	ditto ...	Printed and published at the Printing Company's Press, Cuttack.	Printed and published by the Cuttack Printing Company.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number
SANSKRIT BOOKS—concluded.									
1889.	Pages.					Rs. A. P.			
May 18th	80	8vo rl ..	1st ..	300	Printed	0 8 0	Jadu Nath Set, Serampore.	Goes on with the Dronaparba ...	1396
April 4th	190	8vo dy..,	2nd ..	6,000	ditto ...	1 8 0	Ganesh Chandra Ghosh, Calcutta.	The usual contents of a *Tantric* work. The definition of a preceptor and of a disciple, the various sorts of postures called *dsans*, the various ways of joining the palms and fingers in invoking celestial spirits technically called *mudrds*, the method of initiation, the regulation of the breath by closing the nostrils, the various celestial spirits to be invoked, the various modes of propitiation of various divinities, the mystic rites, the attainment of supernatural power.	1397
Mar. 27th	48	12mo ...	2nd ...	1,000	ditto ...	0 1 6	.....	.....	1398
„ 15th	12	8vo dy .	1st . .	500	ditto ...	0 3 0	Krishna Chandra Ráya, Básara, Dinagepore.	Contains 42 verses expressive of devotion to Rama.	1399
„ 28th	20	12mo ..	2nd .	2,000	ditto ...	0 1 0	.....	In eleven verses Rupa Goswami gives an account of the feelings of Radha and Krishna during the course of the day, and Narottam Das translates these into Bengli averse.	1400
May 5th	60	12mo dy	1st ...	1,000	ditto ...	0 4 0	Prasád Dás Gosvámi, Serampore.	Sankarácháryya's well known work with a Sanskrit commentary and a Bengali translation.	1401
„ 20th	60	12mo dy	1st ..	1,000	ditto ...	0 4 0	Suryya Kumár Mukharji, 21, Sankar Háldár's Lane, Calcutta.	Said to be a portion of the *Reva Khanda* of the Skanda Purán.	1402
HINDI BOOK.									
May 2nd	136	8vo rl....	1st ..	1,000	Printed	0 12 0	Dina Náth Dev, 19, Rajá's Chak, and Mungi Lál, 132, Cotton Street, Calcutta.	A word-book in English and Hindi.	45
SANSKRIT BOOK.									
April 19th	108	12mo ...	1st ...	1,000	ditto ...	1 0 0	Shyámá Charan Kabiratna, 47, Benetola Lane, Calcutta.	A new school-book	62
URIYA BOOK.									
April 16th	22	12mo rl.	1st ...	1,000	ditto ...	0 3 0	Akshaya Kumár Ghosh and Srikrishna Mahápátra.	.....	34

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Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						IX.—PERSIAN AND
	LANGUAGE.					
10	Pharsi Amoj. The Persian Instructor.	Persian and Urdu.	Abdul Hai ...	Language	Lithographed and published at the Union Press, Bankipore.	Lithographed and published by Rahimuddin.
						X.—SANSKRIT AND
	RELIGION.					
51	Srimadbhágabatam. Skandha I. (T).	Sanskrit and Uriya.	Raja of Talchera.	Religion, H.	Printed and published at Cuttack Printing Company's Press, Cuttack.	Printed and published by the Cuttack Printing Company.
						TRI-LINGUAL
						I.—BENGALI,
	LANGUAGE.					
80	Rijubodhini. A Key to Rijupatha. Part I.	Bengali, English, & Sanskrit.	Baikuntha Chandra Náth.	Language.	Printed and published at the Adarsha Press, Dacca.	Printed by Lachman Basák, and published by Baikuntha Chandra Náth.
81	Riju Byákhyá. A Complete Key to Rijupatha Part I.	ditto ...	Káli Saháya Ráya Chaudhuri.	ditto ...	Printed at 22-2, Jhámápukur Lane, and published at 54-1, College Street, Calcutta.	Printed and published by Baradá Prasád Majumdár.
82	Riju Bibriti. A Key to Rijupatha. Part I.	ditto ...	Shyámá Charan Chatterji.	ditto ...	Printed and published at 23-1, Bechu Chatterji's Street, Calcutta.	Printed and published by Jadu Náth Sil.
						I—UNI-LINGUAL
						I—BENGALI
	ART.					
2142	Krishi Gejet. The Agricultural Gazette. A monthly paper. Vol. I.	Bengali	Edited by G. C. Bose.	Art ...	Printed and published at 34-1, Kalutola Street, Calcutta.	Printed and published by Bihári Lal Sarkár.
2143	Ditto ditto. Vol. II. No. 13.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2144	Ditto ditto. Vol. II. No. 14.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2145	Ditto ditto. Vol. II. No. 15.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2146	Ditto ditto. Vol. II. No. 16.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2147	Ditto ditto. Vol. II. Nos. 17 and 18.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2148	Ditto ditto. No. 19	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2149	Ditto ditto. No. 20	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2150	Ditto ditto. No. 21	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2151	Ditto ditto. No. 22	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2152	Ditto ditto. No. 24	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2153	Ditto ditto. Nos. 25 and 26 (together).	ditto ...	ditto ...	Art ...	Printed at 34-1, Kalutola Street, and published at 116, Bowbazar Street, Calcutta.	Printed by Bihárilal Sarkár, and published by Hari Dás Pátra.

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URDU BOOK.									
1889.	Pages.					Rs. A P.			
Mar. 25th	80	8vo ...	2nd ...	1,000	Lithographed.	0 10 0	Abdul Hai, Bankipore.	.....	10
URIYA BOOK.									
Mar. 12th	222	8vo rl....	1st ...	1,000	Printed	Nil	Raja of Talchera.	The text and an Uriya translation made from the Bengali translation of Pandit Ráma Náráyan Vidyáratna.	51
BOOKS.									
ENGLISH, AND SANSKRIT BOOKS.									
1889.									
Mar. 31st	176	12mo ...	3rd ...	1,000	ditto ...	0 8 0	.....	.....	80
April 21st	252	12mo ...	7th ...	3,000	ditto ...	0 8 0	Baradá Prasád Majumdár, 22-2, Jhamapukur Lane, Calcutta.	.....	81
May 6th	288	12mo dy	2nd ...	2,000	ditto ...	0 10 0	Shyámá Charan Chatterji, 11, Jorápukur Lane, Calcutta.	.....	82
PERIODICALS.									
PERIODICALS.									
.....	288	fcap. ...	1st ...	500	ditto ...	.....	G. C. Bose, 34-1, Kalutola Street, Calcutta.	Articles on agricultural and economic subjects. Twelve parts bound together.	2142
1293 B.S.	24	fcap. ...	1st ...	500	ditto ...	0 6 0	G. C. Bose, 116 Bowbazar Street, Calcutta.	The cultivation of cotton; agricultural education; trade in cotton yarn and cloth of Calcutta.	2143
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	.....	2144
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	.....	2145
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	Sugarcane cultivation in Puna	2146
.....	48	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	Articles on agricultural and economic subjects.	2147
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	Draught cattle; woollen work in the Punjab; cultivation of tobacco in Burma.	2148
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	Grapes of Cashmere; cultivation of ginger, &c.	2149
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	The tannery at Cawnpore; Indian silk; cultivation of pepper on the Malabar coast, &c.	2150
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	The Cirencester agricultural students; the cultivation of tobacco; mulberry plantation, &c.	2151
ditto ...	24	fcap. ...	1st ...	500	ditto ...	0 6 0	ditto ...	Articles on wheat, jute, musk, rubber, &c.	2152
1294 B.S.	48	fcap. ...	1st ...	225	ditto ...	0 6 0	ditto ...	The manufacture of candles; fish trade; the cultivation of jute, &c.	

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						I.—BENGALI
	ART—*concluded.*					
2154	Krishi Gejet. The Agricultural Gazette. A monthly paper. Nos. 27 to 30, (together).	Bengali.	Edited by G. C. Bose.	Art ...	Printed at 66, College Street, and published at 116, Bowbazar Street, Calcutta.	Printed by Binodbihári Majumdar, and published by Hari Dás Pátra.
2155	Ditto ditto. Nos. 31 to 36 (together).	dit to ..	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2156	Ditto ditto. No. 37	ditto ...	ditto ...	ditto ...	Printed at 1, Pítámbar De's Lane, Serampore, and published at 116, Bowbazar Street, Calcutta.	Printed by Raghunáth Pál, and published by Hari Dás Pátra.
2157	Ditto ditto, No. 38	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2158	Ditto ditto. No. 39	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2159	Ditto ditto. Nos. 45 to 48.	ditto ...	ditto .	ditto ...	Printed at Serampore, and published at Calcutta.	Printed by Jitendranath Dé, and published by Hari Dás Pátra.
	MEDICINE.					
2160	Chikitsá Sammilani. The bringing together of different systems of Medicine. A monthly paper. Vol. V. Nos. 7 to 9 (together).	ditto ...	Edited by Abinash Chandrá Kabiratna.	Medicine, E. & N.	Printed at 5, Simla Street, and published at 200, Cornwallis Street, Calcutta.	Printed by Gopal Chandra Ghoshál, and published by Abinásh Chandra Kabiratna.
	MISCELLANEOUS.					
2161	Anusandhán. Inquiry. A Fortnightly Review Vol. II. No. 18.	ditto ...	Edited by Durgá Dás Láhiri	Miscellaneous.	Printed at 34, Benetola Lane, and published at 58, College Street, Calcutta.	Printed by Ashutosh Banerji, and published by the Anusandhán Samiti.
2162	Ditto ditto. Vol. II. No. 19.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2163	Aryya Pratibhá. The Genius of the Aryan Race. Vol. I. No. I.	ditto ...	...	ditto ...	Printed at 65-2, Beadon Street, and published at 118, Upper Chitpur Road, Calcutta.	Printed by R. K. Bhattácháryya, and published by Baishnab Charan Basák.
2164	Ditto ditto. Vol. I. No 2.	ditto ...	...	ditto ...	ditto ditto ...	ditto ditto ...
2165	Bámábodhini Patriká. A monthly journal for the instruction of women. No. 291.	ditto ...	Edited by Umesh Chandra Datta.	ditto ...	Printed at 13, Cornwallis Street, and published at 9, Antony Bágán Lane, Calcutta.	Printed by Kártik Chandra Datta, and published by Ashutosh Ghosh.
2166	Ditto, ditto, No 292.	ditto ...	ditto ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2167	Bhárati O Bálak. A monthly paper. Vol. XII. No. 10.	ditto ..	Edited by Svarna Kumári Debi.	ditto ...	Printed at 55, Chitpur road, and published at Kasiabagan Garden House, Ultadingi, Calcutta.	Printed by Kalidas Chakrabarti, and published by Satish Chandra Mukharji.
2168	Ditto ditto. Vol XII, Nos. 11 and 12 (together).	ditto .	ditto ..	ditto ..	ditto ditto ...	ditto ditto ...
2169	Ditto ditto. Vol XIII. No. 1.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
2170	Bhárat Shramajibi. Vol. III. No. 2.	ditto ..	Edited by Shashi Bhusan Biswás.	ditto ...	Printed at 8, Kalutola street, and published at 6, Nawabdi Ostagar's lane, Calcutta.	Printed by Mákhan Lál Raya, and published by the Editor.

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PERIODICALS—continued.									
1887.	Pages.					Rs. A. P.			
Feb. 1st	34	F cap....	1st ...	225	Printed	4 2 0	G. C. Bose, 116, Bowbazar Street, Calcutta.	Trade in wool in Bengal; cultivation of date-trees in India; &c.	2154
April 12th	44	F cap....	1st ...	225	ditto ...		ditto ...	Silk trade in the Punjab; cotton mills in Bengal; the best method of preparing grafts, &c.	2155
May 13th	16	F cap....	1st ...	200	ditto ...	0 6 0	ditto ...	Blight of rice and wheat; cultivation of sugarcane in Bombay; the Agricultural College at Cirencester.	2156
June 14th	16	F cap. ..	1st ...	200	ditto ...	0 6 0	ditto ...	Dentition of domesticated animals; medicine for the destruction of worms; brass and copper plates of the Punjab, &c.	2157
July 14th	16	F cap. .	1st ...	200	ditto ...	0 6 0	ditto ...	Increase of productive power by means of manure composed of nitrogenous matter; the necessity of manure; grass as fodder; the wheat trade.	2158
1889.									
June 10th	32	F cap....	1st ...	250	ditto ...	1 8 0	ditto ...	Dairy farming in Calcutta; the Agricultural Department; the cultivation of turmeric; the soil; silk; manure from cowdung; cultivation of potato; how to test manure for potato cultivation; the cultivation of sugarcane; coir; the rearing of cocoanut trees.	2159
April 9th	96	8vo dy...	1st ...	1,000	ditto ...	0 6 0 per No.	Abinásh Chandra Kaburatna, 200, Cornwallis Street, Calcutta.	The usual contents ...	2160
April 23rd	18	8vo rl ...	1st ...	800	ditto ..	0 2 0	Durgá Dás Láhiri	.....	2161
May 12th	18	8vo rl ...	1st ...	800	ditto ..	0 2 0	ditto ...	.....	2162
April 8th	36	12mo rl	1st ...	1,000	ditto ...	0 4 0	Baishnab Charan Basak, 118 Upper Chitpur Road, Calcutta.	Articles on a variety of subjects	2163
„ 8th	36	12mo rl	1st ...	1,000	ditto ...	0 4 0	Ditto ...	ditto ditto ...	2164
„ 13th	32	8vo rl ...	1st ...	1,000	ditto ...	0 4 0	Umesh Chandra Datta.	Articles suited to female tastes ...	2165
May 9th	32	8vo rl ..	1st ...	1,000	ditto ...	0 4 0	ditto ...	ditto ditto ...	2166
Feb. 26th	56	8vo rl ...	1st ...	1,000	ditto ...	0 6 0	Svarna Kumári Debi, Kasiabagan Garden House, Ultadingi, Calcutta.	Continues the articles on the Baillie Guard at Lucknow and on the Vedanta and Kantian systems of Philosophy.	2167
April, 12th	102	8vo rl ...	1st ...	1,000	ditto ...	0 12 0	ditto ...	Continues the description of the Baillie Guard at Lucknow.	2168
May 22nd	62	8vo rl ...	1st ...	1,000	ditto ...	0 6 0	ditto ...	Continues the article on the Vedanta and Kantian Schools of Philosophy.	2169
Feb. 28th	8	4 to dy...	1st ...	1,200	ditto ...	.....	.....	The writer thinks that the cultivation of *Eragrostis Abyssinica*, the seed of Shyámá grass, and lotus seed is likely to prevent the possibility of famines and scarcities in India.	2170

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						I.—BENGALI
	MISCELLANEOUS—*contd.*					
2171	Bhárat Sanjiban. India Revived. A monthly paper. Vol. I. No. 2	Bengali	Edited by Bhupati Náth Dás and Brothers.	Miscellaneous.	Printed and published at the Budhodaya Press, Hugli.	Printed and published by Siddheswar Dás.
2172	Ditto ditto. Vol. I. No. 3.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2173	Ditto ditto. Vol. I. No. 4.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2174	Dipiká A monthly paper. Vol. II. No. 2	ditto ...	Edited by Pyári Mohan Haldar.	ditto ...	Printed at 17, Sri Náth Das's Lane, and published by 54, Malanga Lane, Calcutta.	Printed by Amrita Lál Ghosh, and published by the Sulabh Sáhitya Prakásh Karyyálaya.
2175	Ditto. ditto. Vol II No. 3.	ditto ...	ditto ..	ditto ...	ditto ditto ..	ditto ditto ...
2176	Ditto. ditto. Vol. II No. 4.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2177	Ditto. ditto. Vol. II. No. 5.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2178	Ditto. ditto. Vol. II. No. 6.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2179	Ditto. ditto. Vol. II. No. 7.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2180	Kalpaná. A monthly paper. Vol. VI. No. 3.	ditto ..	Edited by Haridás Banerji.	ditto ...	Printed at 23, and published at 25, Panchánantalá Lane, Calcutta.	Printed by Rámbrahma Kumar, and published by Bipin Bihári Basu.
2181	Karnadhár. The Helmsman A monthly paper Vol. I. No. 2.	ditto ...	Edited by Hárán Chandra Rakshit.	ditto ...	Printed at 3, Maniktalá Street, and published at 19, Cornwallis Street, Calcutta.	Printed by Nagendra Nath Basu, and published by Jogindra Nath Rakshit.
2182	Krirá O Kautuk. Fun and Frolic. A weekly paper. Vol. I. No. 9	ditto ...	Edited by Rádhesh Chandra Sot.	ditto ..	Printed and published at 3, Maniktalá Street, Calcutta.	Printed and published by Nagendra Nath Basu.
2183	Ditto ditto. Vol. I No. 10.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2184	Ditto ditto. Vol. I. No. 11.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
2185	Ditto ditto. Vol. I No. 12.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2186	Nabyabhárat. New India. A monthly paper. Vol. VI. No. 12.	ditto ...	Edited by Debi Prasanna Ráya Chaudhuri.	ditto ...	Printed at 36, Káliprasád Datta's Street, and published at 210-4, Cornwallis Street, Calcutta.	Printed by Sen and Son, and published by Debiprasanna Raya Chaudhuri.
2187	Ditto ditto. Vol. VII. No. 1.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2188	Nabajiban. The New Life. A monthly paper Nos. 50-51 (together).	ditto ...	Edited by Akshaya Chandra Sarkár.	ditto ...	Printed and published at 65, Akhil Mistri's Lane, Calcutta.	Printed and published by Rái Chandra Ghose.
2189	Ditto ditto. No. 52	ditto ..	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
2190	Sakhá. Companion. A monthly paper. Vol. VII. No. 3.	ditto ...	Edited by Annadá Charan Sen.	ditto ..	Printed and published at 2, Benetola Lane, Calcutta.	Printed and published by Natabar Chakrabartti.
2191	Ditto ditto. Vol. VII. No. 4.	ditto .	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
2192	Sachitra Banga Rahasya Illustrated Bengali Punch. Vol. I. Nos. 3 and 4.	ditto ...	Edited by Dwáraká Nath Mukharji.	ditto ..	Printed at Uttarpárá, and published at Calcutta.	Printed and Shashibhushan Ghose, and published by Dwarakánath Mukharji.
2193	Sáhitya-Ratna Bhándár The Store-house of the Gems of Literature. Vol. I. No. 1.	ditto ...	Edited by Krishna Chandra Mukharji.	ditto ...	Printed at 113, Masjidbári Street, and published at 2, Kánái Lál Dhar's Lane, Calcutta.	Printed by Jogendranáth Mallik, and published by Bhairab Chandra Dás.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
PERIODICALS—continued.									
1889	Pages.					Rs. A. P.			
Mar., ..	16	8vo ...	1st ..	1,000	Printed	0 2 0	Bhupati Náth Dás and Brothers, Chinsura.	The avowed object of this new monthly is to support idolatry, and to oppose every proposal for a change in any direction.	2171
April, 27th	16	8vo ...	1st ..	1,000	ditto ..	0 2 0	ditto ...	ditto ditto ...	2172
May, 31st	16	8vo ...	1st ...	1,000	ditto ..	0 2 0	ditto ...	ditto ditto ...	2173
Mar., 27th	24	8vo dy	1st ...	2,000	ditto ..	0 4 0	Pyári Mohan Haldar, 54, Malanga Lane, Calcutta.	Articles of social, literary and antiquarian interest.	2174
,, 27th	24	8vo dy	1st ..	2,000	ditto ..	0 4 0	ditto ...	ditto ditto ...	2175
,, 27th	24	8vo dy	1st ..	2,000	ditto ..	0 4 0	ditto ...	ditto ditto ..	2176
April, 1st	24	8vo dy	1st ...	2,000	ditto ...	0 8 0	ditto ..	ditto ditto ...	2177
,, 1st	24	8vo dy	1st ...	2,000	ditto ...	0 4 0	ditto ...	ditto ditto ..	2178
,, 1st	24	8vo dy	1st ...	2,000	ditto ...	0 4 0	ditto ...	ditto ditto ...	2179
,, 5th	40	8vo dy	1st ...	1,000	ditto ..	0 8 0	Haridás Banerji, 25, Panchánantalá Lane, Calcutta.	Articles of literary and social interest.	2180
Mar., 15th	24	8vo dy..	1st ..	400	ditto ...	0 2 0	Haran Chandra Rakshit, Mazilpur.	Pándit Hrishikesha Shástri ridicules those hypocrites who, having neglected orthodox rites and eaten English dinners all their lives, have now become orthodox Hindus, read the Bhagabadgítá without understanding it, fast on the eleventh day of the moon and boast of their Aryan origin.	2181
,, 23rd	4	Fcap ...	1st ...	300	ditto ...	0 0 3	Baikantha Náth Raya, Tahirpur.	Witty and funny sayings ...	2182
,, 23rd	4	Fcap ..	1st ..	300	ditto ...	0 0 3	ditto ...	ditto ditto ...	2183
,, 23rd	4	Fcap ...	1st ..	300	ditto ..	0 0 3	ditto ...	ditto ditto ...	2184
,, 23rd	4	Fcap ...	1st ...	300	ditto ...	0 0 3	ditto ...	ditto ditto .	2185
April, 18th	76	8vo rl ...	1st ...	1,400	ditto ...	0 10 0	.....	Contains an account of Mukuta Ráya, who, about two centuries ago, tried to unite the different sections of the Brahmans of Bengal under one social system; and an article in which the writer exhorts his countrymen to adopt a middle course between radical go-aheadism and lifeless conservatism in the matter of social and national reforms.	2186
,, 29th	56	8vo rl ...	1st ...	1,500	ditto ...	0 7 0	.....	Contains articles on a variety of subjects.	2187
May, 7th	128	8vo dy..	1st ...	1,000	ditto ...	0 5 0 per No.	Akshaya Chandra Sarkár, 61, Mirzápur Street, Calcutta.	In an article on the Congress the writer does not think that educated Bengalis are the representatives of the people.	2188
,, 15th	64	8vo dy..	1st ...	1,000	ditto ...	0 5 0	ditto ...	One of the writers complains of the way in which school books are chosen. The Inspectors patronise their favourites at the expense of authors of high merit.	2189
Mar., 28th	16	8vo s rl	1st ...	1,500	ditto ...	0 1 6	Annadá Charan Sen, Calcutta.	Designed for the amusement and instruction of boys.	2190
April, 29th	16	8vo s rl	1st ...	1,500	ditto ...	0 1 6	ditto ...	.....	2191
May, 7th	24	8vo dy...	1st ...	500	ditto .	0 2 0	Dwaráká Nath Mukharji, Calcutta.	Witty stories and anecdotes ...	2192
April, 18th	16	8vo dy...	1st ...	1,500	ditto ...	0 1 0	.....	Under the supervision of two of the well-known pundits of Calcutta. It contains articles of literary interest only.	2193

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						I.—BENGALI
	MISCELLANEOUS—*concld.*					
2194	Sáhitya-Ratna Bhándár The Store-house of the Gems of Literature. Vol. I. No. 2.	Bengali	Edited by Krishna Chandra Mukharji.	Miscellaneous.	Printed at 113, Masjidbari Street, and published at 2, Kánái Lál Dhar's Lane, Calcutta.	Printed by Jogendranáth Mallik, and published by Bhairab Chandra Dás.
2195	Shikshá Parichara. The Companion of Education. A monthly paper. Vol. I. No. 1.	ditto ..	Edited by Sarach Chandra Chaudhuri.	ditto ...	Printed and published at 92, Bowbazar Street, Calcutta.	Printed by Kishori Mohan Sen, and published by Prasanna Kumár Bhattácháryya.
2196	Sukhi Pákhi. The Happy Bird. A monthly paper. Vol. I Nos. 7 and 8	ditto ..	Edited by Sáradá Prasád Basu.	ditto ...	Printed and published at Jessore.	Printed by Kshetra Gopál Sinha, and published by Sáradá Prasád Basu.
2197	Shuk-Shári. The Parrot and his Mate. A monthly paper. Vol. I. No. 2.	ditto ...	Edited by Nibáran Chandra Kábyatirtha.	ditto ...	ditto ditto ...	Printed by Kshetra Gopal Sinha, and published by the Author.
	RELIGION.					
2198	Bedabyás. A monthly paper. Vol. III. No 12.	ditto ...	Edited by Bhudhar Chatterji.	Religion, H.	Printed and published at 34, Benetola Lane, Calcutta.	Printed by Ashutosh Banerji, and published by Amrita Lal Chatterji.
2199	Ditto ditto. Vol. IV. No. 1.	ditto ..	ditto ...	ditto ...	ditto ditto ...	Printed and published by Ashutosh Banerji.
2200	Dharmabandhu. The Friend of Religion. A monthly paper. Vol. VIII. No. 1.	ditto ...	ditto ...	ditto, B.	Printed at 24, Beadon Street, and published at 100-4, Mechuábázár Road, Calcutta.	Printed by Mani Mohan Rakshit, and published by the Dharmabandhu Office.
2201	Khrishtiya Bándhab The Christian Friend A monthly paper Vol. XI. No. 1.	ditto ...	Edited by G. H. Rouse.	Religion, C.	Printed and published at the Baptist Mission Press, Calcutta.	Printed and published by G. H. Rouse.
2202	Ditto ditto. Vol. XI. No. 4	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2203	Ditto ditto. Vol. XI. No. 5.	ditto ..	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
2204	Shástra Páth-Sammilani An Association for the Study of the Holy Scriptures. A monthly paper. No. 1.	ditto ...	Edited by W. G. Brochway.	ditto ...	ditto ditto ...	ditto ditto ...
2205	Ditto ditto. Vol. I. No. 2.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
						II.—ENGLISH
	ART.					
734	The Indian Agricultural Gazette. Vol. I.	English	Edited by G. C. Bose.	Art ...	Printed and published at 34-1, Kalutola Street, Calcutta.	Printed and published by Bihari Lal Sarkár.
735	Ditto ditto Vol. IV. Nos. 46 to 48.	ditto ..	ditto ..	ditto ..	Printed at Serampore, and published at Calcutta.	Published by H. Pátra ...
	MISCELLANEOUS.					
736	Journal of the Asiatic Society of Bengal, Vol LVII. Part II. No. 4 1888.	ditto ...	Edited by the Natural History Secretary.	Miscellaneous.	Printed at the Baptist Mission Press, and published at 57, Park Street, Calcutta.	Printed by G. H. Rouse, and published by the Asiatic Society.
737	The Calcutta Review April 1889.	litto ...	Edited by H. A. D. Phillips, C.S.	ditto ...	Printed and published at 12, Bentinck Street, Calcutta.	Printed and published by Thomas S. Smith.

Quarter ending 30th June 1889—continued.

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Date of issue from the press, for place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
PERIODICALS—concluded.									
1889.	Pages.					Rs. A. P.			
June, 4th	16	8vo dy...	1st ...	1,000	Printed	0 1 0	Dwaráká Nath Mukharji, Calcutta.	Issued under the supervision of two well-known pundits of Calcutta. It contains articles of literary interest only.	2194
April, 20th	24	8vo rl..	1st ...	1,000	ditto ...	0 3 0	Sarach Chandra Chaudhuri, Putiya.	The objects of the work are the spread of correct ideas about education, the moral training of students, and the reformation of the present system of education.	2195
„ 24th	12	8vo dy...	...	.....	ditto ...	0 0 6	Sáradá Prasád Basu.	Articles of literary interest ...	2196
Mar., 20th	16	8vo dy ..	1st ...	1,000	ditto ...	0 1 6	Nibáran Chandra Kábyatirtha, Jessore.	Articles of literary, historical and scientific interest.	2197
April, 28th	22	8vo dy...	1st ...	800	ditto ...	0 4 0	Bhudhar Chatterji.	An organ of the Hindu revivalists of the Conservative school. In an article on the Congress the writer characterises the movement as mere childishness. It aims at impossibilities. It aims at cajoling Englishmen for the purpose of obtaining political privileges for natives. But the English are wide awake. The writer sounds a note of alarm warning orthodox Hindus against the attempt of a section of the Congressists to encourage widow marriage, to discourage early marriage, and to remove the social obstacles in the way of undertaking journeys to England.	2198
May, 15th	28	8vo rl...	1st ...	900	ditto ...	0 4 0	Gáyatri Sundari Debi.	.....	2199
April, 28th	32	8vo dy...	1st ...	550	ditto ...	0 4 0	.....	An organ of the Sádháran Brahmo Samaj.	2200
Jan., 12th	24	8vo rl....	1st ...	550	ditto ...	0 1 6	G. H. Rouse, Baptist Mission Press, Calcutta.	An organ of the Christian community of Bengal.	2201
Mar., 30th	24	8vo rl....	1st ...	550	ditto ..	0 1 6	ditto ...	ditto ditto ...	2202
May, 2nd	28	8vo rl....	1st ...	500	ditto ..	0 1 6	ditto ...	ditto ditto ..	2203
April, 11th	8	8vo rl....	1st ...	2,000	ditto ...	.....	Revd. W. G. Brochway, Bhawanipur.	ditto ditto ...	2204
May, 3rd	20	8vo rl....	1st ...	2,000	ditto ...	.....	ditto ...	ditto ditto ...	2205
PERIODICALS.									
...	288	4to Fo...	1st ...	500	ditto ...	...	G. C. Bose, 116, Bow Bazar Street, Calcutta.	Articles on a variety of agricultural and economic subjects. Twelve parts issued together.	734
June, 5th	32	4to Fo...	1st ...	250	ditto ...	2 0 0	ditto ...	The Assam Agricultural Department; Horse and Pony breeding Operations in the Madras Presidency; Coir fibre; Jute trade of Calcutta; Gunny bags, Gunny cloth; James Montgomery on China grass.	735
Mar., 23rd	124	8vo rl ...	1st ...	650	ditto ...	1 8 0	Asiatic Society, 57, Park Street, Calcutta.	.....	736
April, 1st	263	8vo dy...	1st ...	350	ditto ...	4 0 0	.....	.....	737

CATALOGUE OF BOOKS for the Second

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						ENGLISH
	MISCELLANEOUS—*concld.*					
738	The National Magazine. New Series. Vol. III. No. 1.	English	Edited by Káli Prasanna De.	Miscellaneous.	Printed at 132, Lower Circular Road, and published at 32, Kálidás Sinha's Lane, Calcutta.	Printed by J. Larkins, and published by Káli Prasanna De.
739	Ditto ditto, Vol. III. No. 2.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
740	Ditto ditto, Vol. III, No. 3.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
	The following work is designed for educational purposes.					
741	The Boys' Own Magazine. Vol I. No. 1.	ditto ...	Edited by Mantha Nath Datta.	ditto ...	Printed and published at 65-2, Beadon Street, Calcutta.	Printed by R. K. Bhattácháryya, and published by Trailokya Náth Datta.
	RELIGION.					
742	The Indian Evangelical Review for April 1889.	ditto ...	Edited by K. S. Macdonald, M.A.	Religion, C.	Printed and published at 20, British Indian Street, Calcutta.	Printed and published by D. M. Traill.
743	The Indian Church Quarterly Review. Vol. II. No. 2.	ditto ...	Edited by A. Saunders Dyer, M.A.	ditto ...	Printed and published at 132, Lower Circular Road, Calcutta.	Printed and published by J. Larkins.
						III.—HINDI
	MISCELLANEOUS.					
63	Kshatriya Patriká. A monthly paper. Vol. VIII. No. 10.	Hindi ...	Edited by Rámdin Sinha.	Miscellaneous.	Printed and published at the Khargabilás Press, Bankipur.	Printed and published by Saheb Prasád Sinha.
64	Ditto ditto. Vol VIII. No. 11.	ditto ..	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
65	Ditto. ditto. Vol. VIII. No. 12.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
66	Ditto. ditto. Vol. IX. No. 1.	ditto ...	ditto ..	ditto ...	ditto ditto ...	ditto ditto ...
						IV.—URDU
	RELIGION.					
38	Anjamani Masihi. A Christian Paper. No. 11.	Urdu ...	Munshi Enyat Ullá.	Religion, C.	Printed at the Baptist Mission Press, and published at 31, Mirzapore 2nd Lane, Calcutta.	Printed by G. H. Rouse, and published by Munshi Enayatulla.
						V.—URIYA
	MISCELLANEOUS.					
51	Ashá Hope. A monthly paper. Vol. I. No. 6.	Uriya ...	Edited by Sádhu Charan Ráya.	Miscellaneous.	Printed and published at the Victoria Press, Cuttack.	Printed and published by Abhin Nayak.
						II.—BI-LINGUAL
						I.—BENGALI AND
	RELIGION.					
60	The New Light. O Banga Bandhu. A fortnightly paper. Vol V. Nos. 13 to 24 and Vol. XIX, Nos. 13 to 24.	Bengali and English.	Edited by Nabin Chandra De.	Religion, B.	Printed and published at the East Bengal Press, Dacca.	Printed and published by Nabin Chandra De.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	1	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or litho-graphed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
PERIODICALS—concluded.									
1889.	Pages.					Rs. A. A.			
April, 5th	40	8vo dy...	1st ...	900	Printed	1 0 0	Káli Prasanna De.	Articles of literary and historical interest.	738
May, 8th	40	8vo ...	1st ...	900	ditto ...	1 0 0	ditto ...	ditto ditto ...	739
„ 10th	40	8vo ...	1st ...	900	ditto ...	1 0 0	ditto ..	Contains an account of travels through Bohemia, Vienna, and the Tyrol, by Mr. R. C. Datta.	740
April, 27th	20	8vo dy	1st ...	500	ditto ...	0 4 0	Manmatha Náth Datta, 65-2, Beadon Street, Calcutta.	.....	741
„ 1st	120	8vo dy	1st ...	400	ditto ...	1 4 0	Rev. K. S. Macdonald, 32-6, Beadon Street, Calcutta.	The usual contents	742
„ 29th	95	8vo rl	1st ..	400	ditto ...	2 0 0	A. Saunders, Dyer.	ditto	743
PERIODICALS.									
1889.									
Mar., 15th	24	8vo rl	1st ..	200	ditto ...	0 8 0	Rámdin Sinha, Khargabilas Press, Bankipur.	Has an article on the subject of educating public opinion.	63
„ 16th	23	8vo rl	1st ...	200	ditto ...	0 8 0	ditto ...	Has an article on Chinese translitération of Sanskrit words.	64
May, 12th	24	8vo rl	1st ...	200	ditto ...	0 8 0	ditto ...	Vaishnab songs and the preparation of various kinds of sweetmeats.	65
„ 13th	24	8vo rl	1st ...	150	ditto ...	0 8 0	ditto ...	Translations from the Spectator and from Goldsmith's work.	66
PERIODICAL.									
May, 2nd	4	8vo dy	1st ...	100	ditto ...	.....	Munshi Enayatulla, 31, Mirzapore 2nd Lane, Calcutta.	The usual contents	38
PERIODICAL.									
Mar., 17th	40	8vo rl	1st ...	200	ditto ...	0 1 0	.....	In one of the articles entitled *Svádhínatá* the writer bewails the unfortunate lot of India, and asks his readers to cultivate a love of independence. In another Mazzini is praised as the liberator of his country.	51
PERIODICALS.									
ENGLISH PERIODICALS.									
April, 10th	71 sheets.	F cap.	1st ...	200	ditto ...	3 0 0	.....	An organ of the Navabidhán Church containing the history of the missionary work of that Church during the year 1888.	60

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						II.—BENGALI AND
	MEDICINE.					
61	Chikitsá Darshan. The Medical Journal. A Monthly Paper. Vol. II. No. 8.	Bengali and Sanskrit.	Edited by Rajani Kánta Mukharji.	Medicine. E. and N.	Printed at 37, Mechhuá-bazar Street, Calcutta, and published at Mollá-belia, Nuddea.	Printed by Sarat Chandra Deb, and published by the Editor.
62	Ditto. ditto. Vol. II. No. 9.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
						III.—TRI-LINGUAL
	MISCELLANEOUS.					I—BENGALI, ENGLISH, AND
	The following works are designed for educational purposes.					
1	The Students' Weekly. Standard No. 1.	Bengali, English, and Sanskrit.	Edited by Ashutosh Mitra.	Miscellaneous.	Printed at 78, Amherst Street, and published at 79, Cornwallis Street, Calcutta.	Printed by Bánikánta Basu, and published by the Star Depository.
2	Ditto ditto. Standard No. 2.	ditto ...	ditto ...	ditto ...	Printed and published at 78, Amherst Street, Calcutta.	Printed by Ambiká Charan Shom, and published by the New Britannia Press Depository.

Quarter ending 30th June 1889—concluded.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
SANSKRIT PERIODICALS.									
1889.	Pages.					Rs. A. P.			
Feb, 25th	22	12mo rl	1st ...	500	ditto ...	0 4 0	Rajani Kánta Mukharji, Nuddea.	The Sanskrit portion contains the chapter on the medicines of fever from a Sanskrit work entitled Jogámritam, which treats of medicines prepared by the combination of a variety of drugs.	61
Mar., 10th	24	12mo rl	1st ...	500	ditto ...	0 4 0	ditto ...	ditto ditto ...	62
PERIODICALS.									
SANSKRIT PERIODICALS.									
Mar, 10th	48	12mo dy	1st ...	1,000	ditto ...	0 1 0	Ashutosh Mitra, 78, Amherst Street, Calcutta.	Designed for the use of students in the higher classes of English schools.	1
May, 6th	24	12mo dy	1st ...	1,000	ditto ...	0 1 0	ditto ...	ditto ditto ...	2

1	2	3	4	5	6	7
Number.	The title of the book and the contents of the title page, with a translation into English of such title or contents when the same are not in the English language.	The place of printing and the place of publication.	The name or firm of the printer, and the name or firm of the publisher.	The date of issue from the press, or of publication.	The name and residence of the proprietor of the copyright or of any portion of such copyright.	The date on which the entry was registered.
				1889.		
997	Komal Kabitá. Easy Verses.	Printed and published at the Girish Press, Dacca.	Printed by Kalimuddin, and published by Hara Kumár Bose.	25th March ...	Káli Prasanna Ghosh, Dacca.	.....
998	Pati Sevá. A book on the duties of Wives towards their Husbands.	Printed and published at the Ramendra Press, Noakhali.	Printed and published by Muhammad Yusaf Ali Munshi.	10th July ...	Muhammad Yusaf Ali, thana Haksham, village Chandame.	.....
999	Medical Hints for the Hills.	Printed and published at Lochnagar, Darjeeling.	Printed and published by Nanda Lál Ráya.	15th Aug. ...	Dr. S. O. Bishop, Darjeeling.	.....
1000	Adab-ul. Mufrad. Lessons on Morals and Manners.	Lithographed and published at Arrah.	Lithographed by Muhammad Idris, and published by Abu Muhammad Ibrahim.	7th April ..	Abu Muhammad Ibrahim, Arrah.	.....
1001	Musnad-i-Imam Safái. Imam Safái's Throne.	ditto ...	ditto ...	20th Mar. ...	ditto ...	.....
1002	Saral Dhárápát. Easy Arithmetical Tables.	Printed and published at the Roy Press, Bogra.	Printed by Binod Bihári Banerji, and published by Náráyan Chandra Bhattácháryya.	22nd Feb. ...	.....	.....

The Catalogue of Books received in the Bengal Library during the Second Quarter ending 30th June 1889 contains the following :—

No.	Language.	Books.		
		Non-educational.	Educational.	Total.
	Uni-linguals.			
1	Arabic	2	.....	2
2	Assamese	3	3	3
3	Bengali	178	240	418
4	English	29	58	87
5	Hindi	36	9	45
6	Musalmani-Bengali	24	.....	24
7	Nepalese	1	.....	1
8	Persian	.....	2	2
9	Sanskrit	28	1	29
10	Urdu	4	.....	4
11	Uriya	10	15	25
	Total Uni-linguals ...	315	328	643
	Bi-linguals.			
1	Arabic and Musalmani-Bengali	1	.....	1
2	Arabic and Urdu	1	.....	1
3	Bengali and English	4	25	29
4	Bengali and Pali	1	.....	1
5	Bengali and Sanskrit	27	5	32
6	English and Hindi	.....	1	1
7	English and Sanskrit	.....	1	1
8	English and Uriyá	.....	1	1
9	Persian and Urdu	1	.....	1
10	Sanskrit and Uriya	1	.....	1
	Total Bi-linguals ...	36	33	69
	Tri-linguals.			
1	Bengali, English, and Sanskrit	.....	3	3
	Total Tri-linguals ...	.....	3	3
	Uni-lingual Periodicals.			
1	Bengali Periodicals	64	.....	64
2	English Periodicals	9	1	10
3	Hindi Periodicals	4	.....	4
4	Urdu Periodicals	1	.....	1
5	Uriya Periodicals	1	.....	1
	Total Uni-lingual Periodicals ...	79	1	80
	Bi-lingual Periodicals.			
1	Bengali and English Periodicals	1	.....	1
2	Bengali and Sanskrit Periodicals	2	.....	2
	Total Bi-lingual Periodicals ...	3	.....	3
	Tri-lingual Periodicals.			
1	Bengali, English, and Sanskrit Periodicals	.....	2	2
	Total Tri-lingual Periodicals ...	.....	2	2
	Grand Total of Books, &c, &c. ...	433	367	800

Calcutta;

The 6th December 1889.

HARAPRASAD SHASTRI,

Offg. Librarian of the Bengal Library and Keeper of the Catalogue of Books under Section XVIII, Act XXV of 1867.

[REGISTERED No. 29.]

No. 3 of 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 15, 1890.

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PART V.—Acts of the Governor-General's Council assented to by the Governor-General	Nil.
PART VI.—Bills introduced into the Council of the Governor-General for making Laws and Regulations or published under Rule 22	Nil.
SUPPLEMENT No. 3	73—125

PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 155A.

GENERAL.—*The 30th December* 1889.—Moulvi Dilwar Hossein Ahmed, Deputy Collector, is appointed to perform the functions of a Collector under section 4 of Act VII (B.C.) of 1880 in the district of Gya.

The 11th January 1890.—Baboo Gunga Nath Roy, Deputy Magistrate and Deputy Collector, Sewan, Sarun, is transferred to the Sudder station of the district of Noakhally.

The 13th January 1890.—Baboo Gopi Krishna Lall, Sub-Deputy Collector, Godda, Sonthal Pergunnahs, is transferred to the Sudder station of the district of Singbhoom.

The 14th January 1890.—Mr C. Cuthbertson, Officiating Under-Secretary to the Government of Bengal, in the Financial and Municipal Departments, is confirmed in that appointment with effect from the 21st November 1889.

Mr. E. N. Baker, Officiating Deputy Commissioner, Manbhoom, is allowed leave for one month, under article 291 of the Civil Service Regulations, with effect from the date on which he availed himself of it.

Moulvi Fuzlul Karim, Deputy Magistrate and Deputy Collector, Thakurgaon, Dinagepore, is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Baboo Baroda Kanta Gangooly, Temporary Deputy Magistrate and Deputy Collector, Rajshahye, is transferred to Dinagepore, and is appointed to have charge of the Thakurgaon sub-division of that district, during the absence, on leave, of Moulvi Fuzlul Karim, or until further orders.

Baboo Parbutty Churn Roy, Deputy Magistrate and Deputy Collector, Darjeeling, is allowed leave for twenty-seven days, under article 291 of the Civil Service Regulations, with effect from the forenoon of the 3rd proximo.

Mr. M. J. W. Augier, Temporary Sub-Deputy Collector, Moorshedabad, is allowed leave for twenty-six days, under article 273(*a*) of the Civil Service Regulations, with effect from the 20th September 1889.

Mr. J. Pratt, District and Sessions Judge, Midnapore, is allowed leave for two days, under article 308 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 15th August 1889.

Mr. J. C. Lloyd, Sub-Deputy Collector, is appointed to have charge of the Sungoo sub-division of the Chittagong Hill Tracts district.

Mr. F. W. Duke, Officiating Joint-Magistrate and Deputy Collector, Bhagulpore, is transferred to the Sudder station of the district of Pooree.

Mr. J. T. Babonau, Deputy Magistrate and Deputy Collector, is posted to the Sudder station of the district of Bhagulpore.

Mr. B. K. Mullick, who has recently been appointed to be a member of the Covenanted Civil Service, is appointed to be an Assistant Magistrate and Collector in the Chittagong Division, and is posted to the Sudder station of the district of Chittagong.

POLICE.—*The 13th January* 1890.—The services of Mr. S. N. Walker, Assistant Superintendent of Police, 24-Pergunnahs, were placed at the disposal of the Government of India, in the Home Department, with effect from the 30th December 1889.

The 14th January 1890.—The following reversions, substantive, and acting promotions are sanctioned in the Police Department :—

With effect from the 4th November 1889, consequent on the return from leave of Mr. J. Masters, Officiating first grade District Superintendent—

Mr. A. H. James from Officiating first grade District Superintendent to the second grade.

Mr. T. G. Charles, Officiating second grade District Superintendent, to the third grade.

Baboo M. N. Hazrah, Officiating third grade District Superintendent, to the fourth grade.

Mr. H. S. Schurr, Officiating fourth grade District Superintendent, to the fifth grade.

Mr. R. Castle, Officiating District Superintendent, to Officiating first grade Assistant Superintendent.

Mr. H. B. St.Leger, Officiating first grade Assistant Superintendent, to Officiating second grade.

With effect from the 8th November 1889, consequent on the return from leave of Mr. S. N. Walker, second grade Assistant Superintendent, who will act in the first grade—

Mr. F. L. Halliday, Officiating first grade Assistant Superintendent, to Officiating second grade.

With effect from the 8th November 1889, consequent on the return from leave of Mr. W. D. Pratt, first grade District Superintendent—

Mr. F. Wilcox, and with him Mr. J. Patch, Officiating first grade District Superintendent, to the second grade.

Mr. A. V. Knyvett, Officiating second grade District Superintendent, to the third grade.

Mr. W. B. Savi, Officiating third grade District Superintendent, to the fourth grade.

Mr. G. W. S. Cox, Officiating fourth grade District Superintendent, to the fifth grade.

Mr. H. M. Parish, Officiating District Superintendent, to Officiating first grade Assistant Superintendent.

Mr. E. C. Ryland, Officiating first grade Assistant Superintendent, to the second grade.

With effect from the 10th November 1889, Mr. I. H. W. D. Clark to act in fourth grade of District Superintendents.

With effect from the 13th November 1889, consequent on the return from leave of Mr. A. E. C. Bolst, Officiating second grade District Superintendent—

Mr. W. B. Maxwell, Officiating second grade District Superintendent, to the third grade.

Mr. V. W. Bertelsen, Officiating third grade District Superintendent, to the fourth grade.

Mr. G. B. Havelock, Officiating fourth grade District Superintendent, to the fifth grade.

Mr. R. L. Ward, Officiating District Superintendent, to first grade Assistant Superintendent

Mr. R. T. Dundas, Officiating first grade Assistant Superintendent, to the second grade.

With effect from the 16th November 1889, consequent on the return from leave of Mr. J. T. Rivett-Carnac, fifth grade District Superintendent—

Mr. F. H. Tucker, Officiating District Superintendent, to first grade Assistant Superintendent.

Mr. C. M. Wintle, Officiating first grade Assistant Superintendent to the second grade.

With effect from the 18th November 1889, consequent on the return from leave of Mr. E. C. Baker, second grade Assistant Superintendent, who will act in the first grade—

Mr. S. V. Tayler, Officiating first grade Assistant Superintendent, to the second grade.

With effect from the 23rd November 1889, consequent on the return from leave of Mr. L. St.John Brodrick, first grade Assistant Superintendent—

Mr. J. Cowie, Officiating first grade Assistant Superintendent, to second grade.

With effect from the 26th November 1889, consequent on the return from leave of Mr. G. A. Patten, first grade Assistant Superintendent—

Mr. H. W. Boileau, Officiating first grade Assistant Superintendent, to the second grade.

With effect from the 26th November 1889, consequent on the retirement of Mr. H. M. Reily, first grade District Superintendent—

Mr. H. A. Coombs, Officiating first grade District Superintendent, to the first grade.

Mr. H. N. Harris, Officiating second grade District Superintendent, to the second grade.

Mr. J. B. Birch, Officiating third grade District Superintendent, to the third grade.

Mr. H. V. H. Roberts, Officiating fourth grade District Superintendent, to the fourth grade.

Mr. T. C. Orr, Officiating District Superintendent, to the fifth grade.

Mr. H. M. Parish, Officiating first grade Assistant Superintendent, to the first grade.

Mr. F. L. Halliday, Officiating second grade Assistant Superintendent, to the second grade.

Mr. A. Campbell, Officiating Assistant Superintendent, to the third grade and to act in the second grade.

With effect from the 26th November 1889, consequent on the departure, on leave, of Mr. I. H. W. D. Clark, Officiating fourth grade District Superintendent—

Mr. G. B. Havelock, fifth grade District Superintendent, to Officiating fourth grade.

Mr. F. H. Tucker, first grade Assistant Superintendent, to Officiating District Superintendent.

With effect from the 30th November 1889, the date on which Mr. C. C. Plowden, Officiating first grade Assistant Superintendent, returned from leave—

Mr. E. N. Walker, Officiating first grade Assistant Superintendent, to the second grade.

JAILS.—*The 9th January* 1890.—Mr. A. D. Larymore, Superintendent of the Alipore Jail, is appointed to act as Inspector-General of Jails, during the absence, on deputation, of Surgeon-Major A. S. Lethbridge, or until further orders.

Mr. M. S. Emerson, Assistant Superintendent of the Alipore Jail, is appointed to act as Superintendent of that Jail, during the absence, on deputation, of Mr. A. D. Larymore, or until further orders.

ECCLESIASTICAL.—*The 13th January* 1890.—The Revd. H. Whitehead, Principal, Bishop's College, acted as Chaplain of St. Thomas' Church, Calcutta, from the forenoon of the 17th October to the afternoon of the 3rd December 1889, during the absence, on privilege leave, of the Revd S. B. Taylor.

MEDICAL.—*The 11th January* 1890.—Dr. D. Picachy is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved of his present appointment as Civil Medical Officer of Purneah.

The following notifications are republished from the *Assam Gazette*:—

No. 426.—*The 28th December* 1889.—On the report of the Central Examination Committee, the Chief Commissioner directs the publication, for general information, of the results of the half-yearly examination of Assistant Commissioners, Extra Assistant Commissioners, and others, held on the 11th, 12th, 13th, and 14th November 1889—

NAME.	SUBJECTS TAKEN UP BY CANDIDATES.		SUBJECTS IN WHICH PASSED.		COMPULSORY SUBJECTS IN WHICH STILL REQUIRED TO PASS.	
	Higher standard.	Lower standard.	Higher standard.	Lower standard.	Higher standard.	Lower standard.
Assistant Commissioners.						
Mr. A. F. Steinberg, C.S.	Assamese ...	....	Assamese, *with credit.*			
,, J. L. Herald, C.S.	.....	Assamese ...	.....	Assamese, *with credit.*		
,, W. R. Brown, C.S.	Assamese ...	.. ...	Assamese.			
,, H. E. Ransom C.S.	Ditto ...	.....	Ditto.			
,, F. C. Henniker, C.S.	Ditto ,,	.....	Ditto, *with great credit.*	.....	Bengali.	
	Bengali.					

NOTE.—(1) Assistant Commissioners of the third grade, in addition to the subjects shown in the last two columns above, are liable to pass by the higher standard in their second language within one year of being posted to a district where it is the vernacular language.

(2) The last two columns are not meant to embody an exhaustive list of all the subjects and standards in which officers are liable to pass, and do not relieve any officer liable to examination, whether mentioned in this notification or not, from the duty of ascertaining for himself the subjects and standards in which he is required to pass.

No. 428.—*The 31st December* 1889.—Mr. F. C. French, C.S., who has recently been appointed a member of the Bengal Civil Service, is posted as an Assistant Commissioner, third grade, to Tezpur.

No. 2G.—*The 2nd January* 1890.—Mr. C. W. E. Pittar, C.S., Assistant Commissioner, Habiganj, in the district of Sylhet, on being relieved by Mr. Tennon, C.S., is transferred to the Sudder station of that district.

This cancels General Department notification No. 396, dated the 3rd December 1889.

No. 131.—*The 31st December* 1889.—In exercise of the powers conferred by section 12 of the Criminal Procedure Code (Act X of 1882), the Chief Commissioner invests Mr. F. C. French, C.S., Assistant Commissioner, Darrang, with the powers of a Magistrate of the third class.

No. 113.—*The 2nd January* 1890.—Mr. E. C. S. Baker, Assistant Superintendent of Police, reported his return to duty at Cachar from leave on the forenoon of the 18th November 1889.

No. 114.—Mr. L. St. J. Brodrick, Assistant Superintendent of Police, reported his return to duty at Kohima on the 23rd November 1889, and received executive charge of the treasury on the 30th idem

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT,—FORESTS.

NOTIFICATION.

The 10th January, 1890.—Messrs. H. D. D. French and H. H. Haines, Assistant Conservators of Forests of the third grade, are promoted to the second grade of Assistant Conservators, with effect from the 11th November, 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 14th January, 1890.—Mr. W. Cracroft, Sub-Deputy Opium Agent of Ghazipore, is allowed leave for three months, under article 369 of the Civil Service Regulations, with effect from the 1st December, 1889.

Mr. A. W. Osborne, Assistant Sub-Deputy Opium Agent, Benares Agency, is appointed to act as Sub-Deputy Opium Agent of Ghazipore, during the absence, on leave, of Mr. W. Cracroft, or until further orders.

Mr. G. Dalziel is appointed to act as Assistant Sub-Deputy Opium Agent, Benares Agency, with effect from the 1st December, 1889, in the vacancy caused by the absence, on leave, of Mr. W. Cracroft.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th January, 1890.—Under section 3 of Act V (B.C.) of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made in respect of all lands comprised in the pergunnahs of Rohang Serai and Chowbiskud, in the district of Pooree, and that the boundaries of estates, tenures, mouzahs, and fields in the said pergunnahs be demarcated on the lands to be surveyed.

2. For the purposes of such survey, the Collector of Pooree is appointed to be Superintendent, and Mr. A. K. Raye is appointed to be Assistant Superintendent of Survey, under section 4, Act V of 1875. Mr. A. K. Raye is also appointed to be Settlement Officer in respect of these lands under section 3, Act VIII of 1879.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th January, 1890.—Under section 3, Act V (B.C.) of 1875, the Lieutenant-Governor is pleased to order that a survey be made of the tracts specified below in the Cuttack district, and that the boundaries of estates, tenures, mouzahs, and fields in the said tracts be demarcated on the lands to be surveyed. The boundaries are as follows :—

TRACT I.

North and East.—The Brahmini, Kimiria, and Biropa rivers.
South and West.—High Leval Canal from Chawdwar to No. 15 Distributary.

TRACT II.

North and East.—By Brahmini river.
West.—Ramda and Sargara hills.
South.—Thalor mouzah.

For the purposes of such survey, the Collector of Cuttack is appointed to be Superintendent of Survey.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 8th January, 1890.—Under clause (2) of section 14 of Act XXI of 1883, (the Indian Emigration Act), and with reference to the notifications, dated the 2nd and 23rd April, 1889, respectively, the Lieutenant-Governor approves the resumption, by Mr. R. W. S. Mitchell, of the duties of Emigration Agent at Calcutta for British Guiana and Natal.

P. NOLAN,
Secretary to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 156A.

The 9th January 1890.—The Lieutenant-Governor accepts the resignation tendered by Baboo Sattya Doyal Banerjee of his appointment as an Honorary Magistrate of the Serampore General Bench II, in the district of Hooghly.

The Lieutenant-Governor accepts the resignation tendered by Baboo Jagendra Chunder Chatterjee of his appointment of Honorary Magistrate of the Cutwa Bench, in the district of Burdwan.

Syed Mohammed Abdul Hossein is appointed to be an Honorary Magistrate of the abovementioned Bench, and is vested with the powers of a Magistrate of the third class.

Baboo Rajendra Narain Nundy is appointed to be an Honorary Magistrate of the First General Bench at the Sudder station of the Hooghly district, and is vested with the powers of a Magistrate of the second class.

The 13th January 1890.—Baboo Anund Chandra Bose, Temporary Sub-Deputy Collector, in charge of the Kalkini Estates in Furreedpore, is vested with the powers of a Magistrate of the second class.

Baboo Sarada Prosad Mookerjee, B.L., is appointed to act as an Additional Munsif in the district of Sarun, to be ordinarily stationed at Sewan, during the absence, on leave, of Baboo Lal Singh, or until further orders.

Moulvi Mohammad Suleman is appointed to be an Honorary Magistrate of the Bankipur Bench, and is vested with the powers of a Magistrate of the third class.

Baboo Jib Lal is appointed to be an Honorary Magistrate of the Aurungabad Bench, in the district of Gya, and is vested with the powers of a Magistrate of the third class.

The 14th January 1890.—Baboo Satish Chunder Bose, Deputy Magistrate and Deputy Collector, Balasore, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

Baboo Prosonno Kumar Gupta, B.L., is appointed to act as a Munsif in the district of Hooghly, to be ordinarily stationed at the Sudder station of that district, during the absence, on leave, of Baboo Soshi Bhusan Sen, or until further orders.

Baboo Rajani Kanta Chatterjee, B.L., is appointed to act as a Munsif in the district of Mymensingh, to be ordinarily stationed at Jamalpore, during the absence, on leave, of Baboo Saroda Prosad Bose, or until further orders.

Mr. J. C. Lloyd, Sub-Deputy Collector, Sungoo, Chittagong Hill Tracts, is vested with the powers of a Magistrate of the second class.

Mr. B. K. Mullick, Assistant Magistrate and Collector, Chittagong, is vested with the powers of a Magistrate of the third class.

Mr. F. J. Monahan, Officiating Joint-Magistrate and Deputy Collector, Serajgunge, Pubna, is appointed, under the provisions of section 22, Act X of 1882, to act as a Justice of the Peace within the territories under the Lieutenant-Governor's control.

GRANT OF LEAVE TO MUNSIFS.—*The 7th January* 1890.—Baboo Soshi Bhusan Sen, Munsif of Hooghly, is allowed leave for one month, viz., ten days under article 309 of the Civil Service Regulations, and the remaining period under article 306(*b*) of the same Regulations, with effect from the 18th January 1890, or from the date on which he may be relieved.

Baboo Saroda Prosad Bosu, Munsif of Jamalpore, in the district of Mymensingh, is allowed leave for one month and twelve days, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

The 8th January 1890.—Baboo Kali Krishna Chowdry, Munsif of Kaligunge, in the district of Dacca, is allowed leave for twenty-one days, under article 306 (*b*) of the Civil Service Regulations, with effect from the date he availed himself of it.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 14th January 1890.—The Lieutenant-Governor sanctions the abolition of the outpost at Bhowanipur, and the establishment of an outpost at Sondeshkhali subordinate to the Hasnabad police-station, in the district of the 24-Pergunnahs.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 13th January 1890.

No. 4.—*Corrigendum.*—In Bengal Government Notification No. 457 of the 17th ultimo, *for* 16th instant *read* 15th instant as the date on which Mr. W. B. Bestic returned from furlough.

MILITARY.

The 14th January 1890.

No. 9.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the public expense for a public purpose, viz., for the construction of a road from Sarisha to Hooghly Point in the villages of Kamarpole, Rekha, Kooshberiah, Mathur, Mankhonda, Gonnarah, Asanpore, Moheswara, Mokundapore, Bhowanipore, Doorgapore and Noorpore in pergunnah Mooragacha, and Kultukri and Kankjole in pergunnah Penchakooli, district 24-Pergunnahs, it is hereby declared that for the above purpose land measuring 195 bighas, more or less, by standard measurement, length 39,530 feet, breadth varying from 75 feet to 25 feet, more or less, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

ESTABLISHMENT.

The 14th January 1890.

No. 10.—The following notifications, issued by the Government of India, Public Works Department, are republished for information :—

No. 9.—*The 8th January* 1890.—The services of Mr. J. Woodside, Assistant Engineer, second grade, are placed at the disposal of the Director-General of Railways

No. 15.—*The 10th January* 1890.—Under section 4 of the Indian Railway Act of 1879, the Governor-General in Council is pleased to sanction the use of Locomotive Engines or other motive power and carriages and wagons to be drawn or propelled thereby on the Sitamarhi and Kanwa Ghât extensions of the Tirhoot State Railway.

E. J. MARTIN,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 13th January 1890.

No. 5.—Adverting to the Notification of this Department, No. 462, dated the 18th ultimo, Baboo Nogendra Nath Mookerjee, Apprentice Engineer, is posted to the Mahanuddy Division.

No 6.—Mr. H. E. Pellereau, Assistant Engineer, passed the Departmental Standard examination as laid down in Public Works Code, Chapter II, paragraph 14, on the 6th November 1889.

No. 7.—In continuation of Notification No. 446, dated the 14th ultimo, Mr. K. H. Stephen, Executive Engineer, fourth grade, is posted to the Buxar Division, which he joined on the afternoon of the 1st instant.

IRRIGATION.

The 13th January 1890.

No. 8.—*Notification.*—It is hereby notified that the Bhangore khall on the Eastern Canals will be closed to traffic for silt clearance from the 28th January 1890 for about six weeks.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

IRRIGATION.

The 9th December 1889.

No. 442.—*Notification.*—In exercise of the powers conferred on him by section 99 of Act III (B.C.) of 1876, the Hon'ble the Lieutenant-Governor is pleased to pass the following rule for the Orissa Canals :—

Beali lands in a five-year lease, if not irrigated, are to be exempted from assessment provided "Beali" is not followed by "sarud" or any other *irrigated* crops in the same year.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—MARINE

[First Publication.]

NOTIFICATION No. 3Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 3).

JAPAN.

YEZO—SOUTH WEST COAST.

Non-existence of Waywoda rock.

THE British Admiralty has given notice (No. 422 of 1889) of the non-existence of Waywoda (Voevoda) rock in the sea of Japan.

This rock was originally reported by the Russian corvette *Voevoda*, when proceeding from Hakodate to Peter the Great bay. It was seen at a distance of 3 miles from the ship at 7h. P M. on 28th June 1859, during thick weather, and estimated to be about 12 feet above water; the position assigned by dead reckoning, being lat. 42° 16′ N., long. 137° 18′ E.

The rock was searched for on two occasions by French vessels of war without success prior to 1886. In September 1886, eight of Her Majesty's ships passed near the assigned position of the rock, in such a manner that an area of 40 miles in latitude and 62 miles in longitude was examined, and no sign of the rock was observed.

In June 1888, an American whaling barque reported having seen two rocks from 8 to 12 feet high, about 500 yards apart, in lat. 42° 30′ N., long. 137° 5′ E., or about 15 miles north-westward of the *Voevoda's* reported position.

Consequent on this latter report a further special search has been made by five of Her Majesty's ships on the China station throughout 7th September 1889. During this search the position of the rocks reported by the American whaling barque, as well as that of the Waywoda rock, was passed over without seeing any signs of a rock above water, or obtaining any soundings indicative of shallow ground.

After a careful review of the above circumstances, it is considered that the objects seen by both the *Voevoda* and the American whaling barque were floating, and therefore the rock has been removed from the Admiralty Charts.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[First Publication.]

NOTIFICATION No. 4Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 4).

JAPAN.

KIUSIU—NORTH-WEST COAST.

Sunken rocks in Iki Channel, and on south coast Iki sima.

THE British Admiralty has given notice (No. 434 of 1889) of the existence of the undermentioned sunken rocks lying in Iki channel, and on the south coast of Iki sima:—

1. A rock, with a depth of 1¾ fathoms, lies near the fairway in Iki channel, with Yebosi sima light-house bearing S. 75° E., and the eastern extreme of Na sima North.

   Position, lat. 33° 42′ 35″ N., long. 129° 52′ 20″ E.

2. A rock, with a depth of 2¼ fathoms, lies in Iki channel, with the north extreme of Na sima, in line with the Watch-house on Iki sima, bearing N. 87° W., and Akasi saki, the north-east extreme of Iki sima, N. 44° W.

   Position, lat. 33° 44″ 40′ N., long. 129° 54′ 10″ E.

3. A rock, with a depth of 1¾ fathoms, lies off the south coast of Iki sima, with Ko saki bearing S. 73° W., distant 4¼ cables.

   Position, lat. 33° 42′ 25″ N., long. 129° 43′ 30″ E.

4. A rock (*Tsurizone rock*), with a depth of 1¾ fathoms, lies 4¼ cables southward of Hira sima, with Ko saki bearing N. 86° E., and western extreme of Naga sima N. 7° W.

Position, lat. 33° 41′ 35″ N., long. 129° 37′ 50″ E.

5. A rock (*Sorazone rock*), with a depth of 3¼ fathoms, and 5 cables in extent in a north and south direction, lies nearly in the fairway of the southern entrance to Go no Ura, 6 cables distant from Tskuye sima, and with the north-west extreme of that islet in line with the north extreme of Hira sima.

Position, lat. 33° 43′ 5″ N., long. 129° 39′ 40″ E.

6. A rock (*Ozone rock*), awash at low water spring tides, is an extension of the shoal shown on Admiralty Chart No. 127, on the eastern side of entrance to Go no Ura; it lies 3¼ cables from the coast of Iki sima, with the south extreme of Haru sima bearing S. 86° W., and north-east extreme of Oö sima N. 45° W.

7. The rock (*Hirase rock*) in the northern part of Go no Ura, and shown on Admiralty Charts as "Covers," lies a little westward of the position given, with Tskuye sima bearing S. 27° W., distant $1\frac{8}{10}$ miles.

CAUTION.—There are many rocks and shoals near the coasts in this locality as yet not charted. Careful navigation is therefore needed.

The depths given are at low water spring tides.

(*The bearings are Magnetic, Variation 4° Westerly in* 1889).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[First Publication.]

NOTIFICATION No. 5Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 5).

TASMANIA.

BASS AND BANKS STRAITS.

Intended alteration in colour of light-houses.

THE British Admiralty has given notice (No. 439 of 1889) that on 1st January 1890, or as soon after as may be, the light-houses on the coasts of Tasmania, together with those on King island and Kent group (Bass strait) and on Goose and Swan islands (Banks strait), will be painted entirely white.

At present the lower parts of the light-houses are painted white, and the upper parts red.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[First Publication.]

NOTIFICATION No. 6Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 6).

ARABIAN SEA.

NINE DEGREES CHANNEL.

Unsuccessful search for reef reported north-east of Minikoi Island.

THE following Notice to Mariners (No. 443 of 1889), issued by the British Admiralty, is republished with reference to Nos. 80 and 85, dated, respectively, the 23rd August and 6th September last, issued by this office :—

In consequence of a reef having been stated to exist in the Nine Degrees channel, about 50 miles north-east of Minikoi island, in lat. 8° 48′ N., long 73° 40′ E., by the Master

of the S.S. *Noord Braband*, August 1889, who reported it as being 3 miles in length in a south-east and north-west direction, an examination of the locality has been made by Commander R. F. Hoskyn, R.N., in charge of the India Marine Survey, with the following result :—

The examination, carried out in the I G.S.S. *Investigator*, and extending over three days, from 2nd to 4th November 1889, embraced the reported position of the reef between lat. 8° 35′ and 9° 5′ N., and long. 73° 15′ to 74° 0′ E. The least depth found on the suspected spot was 1,179 fathoms, gray ooze, and no indication was afforded by the soundings of the existence of shallow water. On one occasion, however, some patches of what appeared to be discoloured water were observed ; but they were all examined and proved to be merely the reflection of clouds in smooth streaks of water.

Throughout the time the weather was uniformly fine, and favourable for observations, and the positions of the soundings were satisfactorily determined.

Considering the detailed nature of this examination by Commander Hoskyn, and the fact of the locality being near the track of shipping using the Nine Degrees channel, the existence of this extensive danger is considered disproved.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[First Publication]

NOTIFICATION No. 7Mne.

The 13th January 1890 —The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 7).

AUSTRALIA—EAST COAST.

PIONEER RIVER APPROACH.

Sunken rock north-eastward of Round Top island.

THE British Admiralty has given notice (No. 444 of 1889) of the existence of a sunken rock lying about 6 cables north-eastward of Round Top island, Pioneer river approach.

This rock (*Taroba rock*), with about 19 feet over it at low water, lies with the following bearings:—

Round Top island summit ...	...	...	S.W. ½ S.
Flat Top island light-house ...	...	...	West.

Position : lat 21° 9′ 45″ S , long. 149° 17′ 50″ E.

(*The bearings are Magnetic. Variation 7° Easterly in* 1889)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[First Publication.]

NOTIFICATION No. 8Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 8).

AUSTRALIA—SOUTH COAST.

PORT PHILLIP ENTRANCE.

Submarine telegraph cable between Swan island and Observatory Point.

THE British Admiralty has given notice (No. 446 of 1889) that a submarine telegraph cable has been laid between Swan island and Observatory Point within the entrance to port Phillip.

The cable is laid from Swan beacon to Pope's Eye fort (situated near the white pile beacon on the south-west part of that shoal) and thence to Observatory Point.

CAUTION.—Mariners are warned that anchorage within 4 cables on either side of this cable is prohibited.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Second Publication.]

NOTIFICATION No. 1Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 1).

BAY OF BENGAL.

BURMA COAST.

The floating light-vessel "Colombo" replaced below Elephant Point.

WITH reference to Notice to Mariners, No. 115, dated the 28th November last, issued by this Office, the Officiating Port Officer of Rangoon has given notice that the floating light-vessel *Colombo* has been replaced off the Spit below Elephant Point, and the schooner *Pharos* removed.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 4th January* 1890.

[Second Publication.]

NOTIFICATION No. 2Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 2).

BAY OF BENGAL.

ORISSA COAST.

Inner bar-buoy adrift.

A TELEGRAPHIC communication has been received from the Collector of Customs, Balasore, that the *inner bar-buoy* has drifted out of position.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th January* 1890.

[Third Publication.]

NOTIFICATION No. 206Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 125).

AFRICA—EAST COAST.

MOZAMBIQUE CHANNEL.

Additional soundings north-eastward of St. Lazarus Bank.

WITH reference to Notice to Mariners, No. 67, dated 2nd July last, issued by this office, the British Admiralty has given notice (No. 403 of 1889) that some further soundings have been obtained by H. M. Surveying Ship *Stork* to the north-eastward of the bank as defined in that Notice, which indicate the existence of either another bank, or of an extension of the slope of the St. Lazarus bank for some 30 miles. No sounding less than 320 fathoms was obtained, but until the ground is more thoroughly searched, vessels should avoid passing over this area to the north-eastward of the St. Lazarus bank.

The soundings obtained are as follows:—

(1) Lat. 11° 55′ S., long. 41° 28′ E. ... ... 320 fathoms
(or 9 miles northward of a depth of 1,080 fathoms previously obtained).
(2) Lat. 11° 48½′ S., long. 41° 35$\frac{3}{10}$′ E. ... ... 460 fathoms.
(3) Lat. 11° 38½′ S., long. 41° 39½′ E. ... ... 807 ditto.
(4) Lat. 11° 32′ S., long. 41° 41′ E. ... ... 910 ditto.

By direction of the Government of Bengal,
E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Third Publication.]

NOTIFICATION No. 207Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 126).

AUSTRALIA—EAST COAST.

INNER ROUTE.

Shoal north-eastward of two isles.

THE British Admiralty has given notice (No. 405 of 1889) of the existence of a coral shoal lying about 1½ miles north-eastward of two isles:—

This shoal, with a depth of 6 fathoms, is 8 cables in length within the 10-fathoms line in a north-east and south-west direction; from the shoalest part, South Direction island bears N. 13° E., distant 11 miles, and cape Flattery summit N. 76° W., distant $7\frac{7}{10}$ miles.

Position, lat. 15° 0′ S., long. 145° 30′ E.

Also the following information concerning g reef and Sand Bank, lying respectively about 5½ and 7 miles eastward of Two isles:—

g reef, as heretofore charted, does not exist.

Sand bank, now named g reef, is 4 cables in length in an east and west direction, with a width of 2½ cables, it is steep-to, and has a small sandy head near its west extreme which dries 6 feet at low water spring tides; from this head, cape Flattery summit bears N. 83° W., distant $13\frac{5}{10}$ miles, and South Direction island N. 18½° W., distant $10\frac{8}{10}$ miles.

Position, lat. 15° 0½′ S., long 145° 36′ E.

Unsuccessful search for shoal north-west of Look-out point.

FURTHER information has been received that a shoal spit extends in a north-westerly direction from Look-out Point for a distance of 2½ miles, having a least depth of 6 feet, with the summit of the point bearing S. 45° E., distant 2 miles; it is steep-to on its eastern edge, the water deepening quickly from 2 to 6 and 7 fathoms; on the north-western side it deepens more gradually.

The position heretofore given for the 2½ fathoms shoal is about 8 cables northward of the extreme of the spit, and depths of 6½ to 7½ fathoms, over even ground were obtained around that spot with no sign of shoal water.

Consequent on the foregoing, it is considered that the *Decapolis* grounded on the spit about 2 miles north-west of Look-out point, and the 2½ fathoms shoal has been removed from the Admiralty Charts.

NOTE.—Cape Flattery summit in line with the red beacon on Sand cay (about 2½ miles south-east of Look-out point), bearing S. 38° E., leads eastward of the shoal ground off Look-out point; and end of range in line with Round hill, bearing S. 82° W., leads 4 cables northward of it.

By direction of the Government of Bengal,
E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Third Publication]

NOTIFICATION No. 208Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 127).

JAPAN.

SIMONOSEKI STRAIT—WESTERN ENTRANCE.

Fixed light on Narusi rock.

THE British Admiralty has given notice (No. 415 of 1889) that on 21st September 1889 a light would be exhibited from the beacon (which has been rebuilt during the present year) on Narusi rock, north side of western entrance to Simonoseki strait:—

The light is a *fixed* white light, visible from the bearing of S. 86°E., through north, to S. 43° W.; it is elevated 17 feet above high water, and should be seen in clear weather from a distance of three miles.

The beacon, constructed of stone and circular in shape, is painted white.

Position, lat. 33° 54′ 45″ N., long. 130° 54′ 50″ E.

NOTE—The light is kept burning day and night by automatic arrangement without the constant attendance of a keeper. Should the light be extinguished by accident, there may be some delay in re-lighting it.

(*The bearings are Magnetic, and are given from seaward. Variation 4° Westerly in* 1889.)

By direction of the Government of Bengal,
E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 21st December* 1889.

[Third Publication.]

NOTIFICATION No 209Mne.

The 30th December 1889.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 129).

ARABIAN SEA.

BOMBAY COAST.

"Chaldea Rock" buoy placed in position.

WITH reference to Notice to Mariners, No. 106, dated 26th October last, the Collector of Salt Revenue, Bombay, through the Director of Indian Marine, has given notice that the *Chaldea Rock* buoy was put in its position on the 3rd ultimo.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 28th December* 1889.

JAIL DEPARTMENT.

No. 87.—*The 7th January* 1889.—Surgeon-Major R. L. Dutt made over charge of the Backergunge Jail to Assistant Surgeon K. Sanyal on the afternoon of the 25th December 1889.

No. 125, *dated 8th January* 1890.—Surgeon-Major J. O'Brien made over charge of the Burdwan Jail to Surgeon-Major Gordon Price on the forenoon of the 30th December 1889.

A S. LETHBRIDGE,
Inspector-General of Jails, Bengal.

HIGH COURT NOTICE.

Dates of Criminal Sessions for the year 1890.

No. of Sessions.	Day of the week.	Date.
First Sessions	Monday	February, 17th.
Second ,, ...	Ditto	April, 28th.
Third ,, ...	Ditto	July, 14th.
Fourth ,, ...	Ditto	September, 1st.
Fifth ,, ...	Ditto	December, 8th.

By order,

J. G. APCAR, *Clerk of the Crown.*

HIGH COURT, CROWN OFFICE, *the 13th January* 1890.

HIGH COURT—Original Side.

NOTIFICATION.

Calcutta, 10th January 1890.

THE Hon'ble the Chief Justice of the High Court of Judicature at Fort William in Bengal has appointed Hamilton Maxwell, Esquire, of No. 7, George Street, Edinburgh, Scotland, a Member of the Society of Writers to Her Majesty's Signet, a Commissioner within all parts of Scotland for the purpose of taking under the Law in force in British India the acknowledgment of married women of deeds to be executed by them in respect of property in British India.

By order,

R. BELCHAMBERS, *Registrar.*

NOTIFICATION.

The following list of days, to be observed in the year 1890 *as close holidays in the Subordinate Civil Courts, has been prepared, and is published by the High Court of Judicature at Fort William in Bengal in the exercise of the power vested in it by Section* 15 *of Act XII of* 1887.

Names of Holidays.	English date.	Bengali date	Days of the week.	Number of days.	Remarks.
New Year's Day and the two days following ...	January, 1st to 3rd	Pous (1296) 18th to 20th	Wednesday to Friday	3 days.	
Uttarayan Sankranti (*a*)	,, 13th	,, 29th	Sunday	1 day	(*a*) This holiday is to be observed in the district of Sylhet only, instead of Dashahara Ganga Snan.
Basant Panchami	,, 25th and 26th	Magha ,, 13th and 14th	Saturday and Sunday	2 days	
Shuba Ratri	February 17th and 18th	Falgoon ,, 6th and 7th	Monday and Tuesday	2 ,,	
Dole Jattra and the day following	March 6th and 7th	,, ,, 23rd and 24th	Thursday and Friday	2 ,,	
Baroni Ganga Snan (*b*)	,, 13th	Chaitra ,, 6th	Tuesday	1 day	(*b*) This holiday is not to be observed in the district of Dacca.
Ashtami or Brahmaputra Snan (*c*)	,, 26th	,, ,, 16th	Friday	1 ,,	(*c*) This holiday is to be observed in the district of Dacca only, instead of Baroni Ganga Snan.
Sri Ram Nabami	,, 29th	,, ,, 17th	Saturday	1 ,,	
Good Friday and the day following, including Shube-Barat.	April 4th and 5th	,, ,, 23rd and 24th	Friday and Saturday	2 days.	
Mahabishub Sankranti	,, 12th	,, ,, 31st	Saturday	1 day.	
Bengali New Year's Day (*d*)	,, 13th	Baisakh (1297) 1st	Sunday	1 ,,	(*d*) This holiday is to be observed in the district of Chittagong only, instead of Dashahara Ganga Snan.
Eed ul-Fitr (*e*)	May 21st and 22nd	Jaistha ,, 8th and 9th	Wednesday and Thursday	2 days	(*e*) If the moon be not visible on 20th of May, then the Courts will be closed on 22nd and 23rd of May.
Empress' Birthday	,, 24th	,, ,, 11th	Saturday	1 day.	
Dashahara Ganga Snan (*f*)	,, 29th	,, ,, 16th	Thursday	1 ,,	(*f*) 1. Ras Purnima, *vide infra*, is to be observed in Orissa, instead of this day. 2. Uttarayan Sankranti, *vide supra*, is to be observed in the district of Sylhet, instead of this day. 3. The 1st Bysack of the Bengali year, *vide supra*, is to be observed in the district of Chittagong instead of this day.
Eclipse of the Sun	June 17th	Assar ,, 4th	Tuesday	1 ,,	
Ruth Jattra (*g*)	,, 19th	,, ,, 6th	Thursday	1 ,,	(*g*) This holiday is not to be observed in the districts of Bhagulpore, Gya, Patna, Sarun, Shahabad and Tirhoot.
Ulta Ruth (*h*)	,, 27th	,, ,, 14th	Friday	1 ,,	(*h*) This holiday is not to be observed in the districts of Bhagulpore, Gya, Patna, Sarun, Shahabad, Tirhoot and Sylhet.
Eed-uz-Zoha (*i*)	July 28th and 29th	Sraban ,, 13th and 14th	Monday and Tuesday	2 days	(*i*) If the moon be not visible on the 18th of July, then the Courts will be closed on the 29th and 30th of July.
Janma Ashtami	August 7th and 8th	,, ,, 23rd and 24th	Thursday and Friday	2 ,,	
Monosha Puja (*j*)	,, 15th	,, ,, 31st	Friday	1 day	(*j*) This holiday is to be observed in the district of Sylhet only, instead of Ulta Ruth.
Mohurrum (*k*)	,, 23rd to 27th	Bhadra ,, 8th to 12th	Saturday to Wednesday	5 days	(*k*) If the moon be not visible on 17th of August, then the Courts will be closed from 24th to 28th of August.
Dussehra Vacation, including Mahaloya, Akhra Chahar Shumba, Durga and Lukhi Pujas, Pateha Doas Dahum, Kali Puja, and Bhratriditya.	October 13th to November 14th	Asun ,, 28th to Kartick 29th	Monday to Friday	33 ,,	
Kartick Puja	November 15th and 16th	Kartick ,, 30th and Aghran 1st	Saturday and Sunday	2 ,,	
Jaggadhatri Puja (*l*)	,, 20th and 21st	Aghran ,, 5th and 6th	Thurday and Friday	2 ,,	(*l*) This holiday is not to be observed in the districts of Bhagulpore, Gya, Patna, Sarun, Shahabad and Tirhoot.
Chutter Mela (*m*)	,, 24th to 30th	Kartick (1296F.) 29th to Aghran 4th, corresponding with Aghran (1297B.) 9th to 15th	Monday to Sunday	7 ,,	(*m*) This holiday is to be observed in the districts of Bhagulpore, Gya, Patna, Sarun, Shahabad and Tirhoot only.
Ras Purnima (*n*)	,, 26th	Aghran (1297) 11th	Wednesday	1 day	(*n*) This holiday is to be observed in Orissa only, instead of Dashahara Ganga Snan.
Christmas Day, and two days before and one day after.	December 24th to 27th	Pous ,, 10th to 13th	Wednesday to Saturday	4 days.	

HIGH COURT, *the 6th December* 1889.

By order,
C. W. M. BRETT, *Registrar.*

General Letter No. 4, dated Calcutta, the 18th December 1889.

From—C. M. W. BRETT, Esq., Registrar,

To—The $\frac{\text{Sessions Judge}}{\text{Magistrate}}$ of

HIGH COURT.
ENGLISH DEPARTMENT.
CRIMINAL.

IT has been brought to the notice of the Court that there is a diversity in the procedure followed regarding the levy of Court-fees in non-cognizable cases instituted by Municipalities or District Boards. Attention is, therefore, requested to Section 19, Clause XVIII of the Court Fees Act VII of 1870, under which no Court-fee is leviable on a complaint preferred by a Municipal Officer. Court-fees should, however, be levied for processes issued in non-cognizable cases instituted by such officers, such fees being, on conviction of the accused, recovered from him under section 31 of the Court-fees Act.

2. It should, however be noticed that the processes alluded to above do not come within Chapter V, Rule I, Sub-Rule III, page 91 of the Criminal Rules and Orders.

NOTIFICATION.

THE undermentioned Mukhtar having withdrawn the security deposited by him under the Rules of the Court has ceased to be a Mukhtar of the High Court in its Appellate Side. His certificate has been cancelled and his name removed from the roll—

NAME.	Number in list.	Number in register.
Syed Hedayet Hossain	57	40 of 1883

By order of the High Court,
C. M. W. BRETT, *Registrar.*

HIGH COURT, *the 6th January* 1890.

NOTIFICATION.

THE security deposited on behalf of the undermentioned Mukhtar having been withdrawn, and he having failed to deposit a fresh security required under the Rules of the Court, has ceased to be a Mukhtar of the High Court in its Appellate Side. His certificate has been cancelled and his name removed from the roll—

NAME.	Number in list.	Number in register.
Gunesh Dutt	43	138 of 1883

By order of the High Court,
C. M. W. BRETT, *Registrar.*

HIGH COURT, *the 6th January* 1890.

TREASURY NOTICE.

BABOO KHAGENDRA NATH MITRA, Deputy Collector, has been placed in charge of the Monghyr Treasury, and is authorized to draw bills on other treasuries.

CHUNDER NARAIN SINGH, *for Offg. Commissioner.*

EDUCATION DEPARTMENT, BENGAL.

ORDERS BY THE VICE-CHANCELLOR AND SYNDICATE OF THE CALCUTTA UNIVERSITY.

NOTICE.

IT is hereby notified for general information that a Convocation of the University of Calcutta for conferring degrees will be held at the Senate House, College Square, on Saturday, the 18th January, at 3 P. M.

Graduates of the University in academic costume are admissible on presenting themselves at the Senate House at 2 P. M.

CHARLES H. TAWNEY, *Registrar.*

SENATE HOUSE, *the 7th January* 1890.

RESULT OF THE MIDDLE SCHOLARSHIP EXAMINATION, 1889.

[The names of candidates for scholarships are printed in italics.]

No.	Name of candidate.	Age.	School.	Marks gained in the compulsory subjects.		Total.	Remarks.
				English.	Arithmetic.		
	First Division.	Yrs. m.					
1	*Augustus Hamilton*	11 11	*St Thomas's, Howrah* ...	220	133	708	*Scholarship.*
2	Alice Wright ...	17 8	Female Normal School ...	220	111	685	
3	Blanche Carpenter ...	16 9	Loretto Convent, Darjeeling ..	206	129	648	
4	*Albert G. E. Shuttleworth* ...	13 11	*St. Paul's, Darjeeling* ..	158	140	628	*Scholarship.*
5	Ada Groening ..	15 4	Loretto Convent, Darjeeling ...	222	60	614	
	Second Division.						
1	*Bertram Higgs*	13 10	*Welland Memorial* ...	166	148	591	*Scholarship*
2	*Roderick O'Connor* ...	14 4	*Loretto Priory, Hazaribagh*	152	128	589	*Scholarship*
3	Claire de Vere ..	15 0	Loretto Convent, Darjeeling ...	199	80	579	
4	Geraldine Fordyce ..	19 8	Female Normal School ...	239	44	578	
5	Henry J. E. Fleming ..	16 9	Doveton College ...	196	132	569	
5	*Francesca D'Souza* ..	14 8	*Calcutta Girls'* ...	144	121	569	*Scholarship*
7	Helen Gaspar	16 2	Female Normal School ...	215	132	560	
8	Mabel Wittenbaker ...	17 11	Ditto ditto ...	202	91	554	
9	*John A. Vertannes* ...	13 11	*St. Paul's, Darjeeling* ...	113	157	546	*Scholarship.*
10	Kumodine Ghosh	16 10	Female Normal School ...	150	118	536	
11	*Alfred J Thomas* .	14 10	*Calcutta Free* ...	157	97	531	*Scholarship.*
12	*John Lyons* ...	13 8	*Welland Memorial* ...	119	138	530	*Scholarship.*
13	*Sara Howard* ..	13 10	*Miss O'Brien's* ...	155	80	525	*Scholarship.*
14	Walter Dobnam ..	16 1	Calcutta Boys' ...	142	119	519	
14	*Helen Hill* .	14 11	*Darjeeling Girls'* ...	199	121	519	
16	*Helen Eames* ...	14 3	*Doveton Institution* ..	128	99	515	
17	Annie Burgess ...	18 2	Loretto House .	154	129	511	
18	Sydney Betts Fox ...	15 4	St. Paul's, Darjeeling	156	95	504	
18	*Mary Shircore* ...	14 1	*Calcutta Girls'*	133	111	504	
20	Eunice Korper	16 3	Pratt Memorial	204	73	499	
21	*Stella D'Rozario* ..	14 10	*Doveton Institution*	104	83	497	
22	Matilda Harper	16 2	Loretto House .	164	67	490	
23	*Janet Wetherill*	14 8	*Doveton Institution* ..	156	55	485	
24	*Reginald R. Reaks* ...	14 6	*St. Paul's, Darjeeling*	148	84	483	
25	*Amy Wight*	13 8	*La Martinière Girls'* .	121	147	478	
26	Lilian West ...	15 0	La Martinière Girls' ...	139	140	473	
27	Annette S. K. Williamson ...	22 7	Doveton Institution	181	68	468	
28	Eliza Stuart	17 3	Calcutta Girls' ..	150	80	457	
29	Alice Leopold	16 2	Ditto	152	87	452	
30	Mary Lucas	16 8	La Martinière Girls' ..	135	112	451	
31	*Arthur Withers*	13 7	*St. Michael's, Coorjee* ...	116	106	450	
	Third Division.						
1	Emily Peal	16 11	Loretto Priory, Hazaribagh ...	87	126	441	
2	William H. Belchambers ...	16 5	Doveton College ..	130	81	438	
3	Reginald L. Lawrence ...	16 3	St. Paul's, Darjeeling ...	99	160	437	
4	*John Jewell*	14 11	*St. Thomas's, Howrah* ...	128	95	435	
5	Lilian Roberts	19 4	Female Normal School ...	167	63	432	
6	*Ethel Ager*	13 10	*Convent, Cuttack* ...	124	93	429	
7	Eliza Aitken ...	17 1	La Martinière Girl's ...	113	112	423	
7	Wm. H. Babonan	15 6	Private student ...	131	100	423	
9	Walter E. Hillier	15 11	St Paul's, Darjeeling ...	123	94	420	
10	Amy Cohen ...	14 11	Calcutta Girls' ...	124	102	411	
11	*Mary Gantzer* ...	14 4	*Loretto Priory, Hazaribagh* ..	110	105	410	
12	Carr A. Vertannes	15 0	St. Paul's, Darjeeling ...	93	84	406	
13	Irene Sells ...	17 4	Darjeeling Girls' ...	150	49	403	
14	Raphael M. Cohen ..	16 5	Jewish Boys' ..	86	108	402	
14	*Eva H. Schumacher* ..	14 5	*Miss. O'Brien's* ...	151	63	402	
16	Eden G. Dobson ..	16 5	St. Paul's, Darjeeling ...	112	112	400	
17	*Emily Wallace* ...	13 8	*Welland Memorial* ...	139	112	397	
18	Cecil B. C. Bullock .	16 2	St Paul's, Darjeeling ...	131	115	396	
18	*Alice Cantwell* ...	14 1	*Loretto House* ..	116	110	396	
20	Beatrice Stark ...	15 3	Calcutta Girls' ...	106	51	395	
21	Thomas Brocken ...	15 0	St. Michael's, Coorjee ...	94	83	394	
22	*Sydney E. Ansell* ..	14 6	*St. Paul's, Darjeeling* ...	83	87	384	
23	Cuthbert Foster ...	15 2	St. Michael's, Coorjee ..	104	104	383	
24	Lilian Burgess ...	16 6	Loretto House ...	106	74	380	
25	*Eustace P Jones* ...	13 1	*Miss O'Brien's* ...	123	80	378	
26	Michael Gillespie ...	15 7	St. Michael's, Coorjee ...	97	110	376	
27	*John Atkinson* ...	14 11	*St. Joseph's, Calcutta* ..	101	75	374	

No	Name of candidate.	Age.	School	Marks gained in the compulsory subjects.		Total.	Remarks.
				English.	Arithmetic.		
	THIRD DIVISION—*concluded.*	Yrs. M.					
28	William J. Marshall	16 11	Calcutta Boys'	79	113	373	
29	John C. Hill	15 6	St. Paul's, Darjeeling ...	103	89	371	
30	Zoe Vardon	15 8	Miss O'Brien's	112	85	367	
31	*Eugene Chinall*	14 9	*Calcutta Free*	141	44	366	
32	*Jochebed Cohen*	14 8	*Jewish Girls'*	97	93	365	
33	*Gerald Gantzer*	13 6	*St. Thomas's, Howrah* ...	125	62	347	
34	Lilla Adams	16 8	Pratt Memorial	131	64	345	
35	Aloysius Hill	17 0	St. Michael's, Coorjee ...	103	67	343	
	Albert E. Swann	14 1	*Calcutta Free*	91	65	343	
37	Virginia LeCun	15 4	Loretto House	101	73	331	
38	Ida Dunn	21 0	Female Normal School ...	118	56	327	
	Edmund C. Rondeau ...	14 8	*Doveton College*	81	86	327	
	Gertrude Watling	14 8	*Pratt Memorial*	104	81	327	
41	Mona Blond	18 8	Calcutta Girls'	94	70	315	
42	Amelia Fleming	19 9	Private student	136	63	309	
43	William L W. Renny ...	15 4	St. Paul's, Darjeeling ...	78	94	308	
	Daisy Wight	15 2	La Martinière Girls' ...	91	103	308	
45	Cissira Ghosh	17 11	Loretto House	102	54	305	

A M NASH,
Inspector of European Schools, Bengal.

CALCUTTA UNIVERSITY.

NOTICE.

THE University examinations in Arts, Law, Medicine, and Engineering, 1890, will be held on the undermentioned dates—(This cancels the previous notifications) :—

Entrance Examination on Monday, the 24th February, and following days.

F. A. and B. A. Examinations on Monday, the 10th March, and following days.

M. A. and Premchand Roychand Examinations on Monday, the 10th November, and following days.

B. L., Honours in Law, L. M. S., and Preliminary Scientific (L. M. S.) Examinations on Monday, the 7th April, and following days.

M. B., Preliminary Scientific (M. B.), M. D., and F. E. Examinations on Monday, the 5th May, and following days.

L. E. and B. E. Examinations on Monday, the 7th July, and following days.

Applications from candidates for admission to the Entrance, F. A., and B. A. Examinations must be lodged with the Registrar on or before the 10th January.

Applications from candidates for admission to the M. A. Examination must be lodged with the Registrar on or before the 11th August.

Applications from candidates for admission to the B. L. and Honours in Law Examinations must be lodged with the Registrar on or before the 7th March.

Applications from candidates for admission to the L. M. S. and Preliminary Scientific (L. M. S.) Examinations must be lodged with the Registrar on or before the 24th March.

Applications from candidates for admission to the M. B. Preliminary Scientific (M. B.) Examinations must be lodged with the Registrar on or before the 21st April.

Applications from candidates for admission to the M. D. Examination must be lodged with the Registrar on or before the 5th April.

Applications from candidates for admission to the F. E. Examination must be lodged with the Registrar on or before the 21st April.

Applications from candidates for admission to the L. E. and B. E. Examinations must be lodged with the Registrar on or before the 23rd June.

All candidates from the same institution must appear at one and the same place of examination.

By order of the Vice-Chancellor,

CHARLES H. TAWNEY, *Registrar.*

SENATE HOUSE, *the 7th January* 1890.

Prize Essay for Native Ladies.

THE following subject has been selected for Babu Brajamohan Dutt's Prize of Rs. 40 for the year 1889-90:—

"The present condition of Bengali Women."

The conditions for the award of the prize are—

(1) That the competition be open to all educated women, being natives of Bengal, without regard to age.

(2) That the prize be given for an essay, to be written in either Bengali or Sanskrit.

(3) That the essays be sent to the Central Text-Book Committee for adjudication within six months of the date of advertisement.

(4) That each essay be accompanied by the written declaration of the husband parent, or guardian of the competitor that, to the best of his belief, she has received no assistance of any kind, direct or indirect, in writing the essay.

Candidates are requested to send their essays, not later than the 30th June 1890, to the Secretary to the Central Text-Book Committee, Office of the Inspector of Schools, Presidency Circle, Calcutta. The envelope containing the essay should be superscribed "Brajamohan Dutt Prize Essay." The name of the successful competitor will be published in the *Calcutta Gazette*.

The winner of the prize in any year may, if she pleases, again compete. If she is adjudged to have sent in the best essay in such subsequent competition, her name will be published in the *Gazette*, but the prize will be awarded to the next eligible candidate.

No prize will be awarded if, in the opinion of the judges, the best essay sent in is not such as to deserve a prize.

A. CROFT,
Director of Public Instruction.

The 28th December 1889.

Examination of Candidates for Pleadership and Mookhtarship in Mofussil Courts subordinate to the High Court.

THE next examination of candidates for Pleadership will be held in the Senate House of the Calcutta University on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

The next examination of candidates for Mookhtarship will be held at Calcutta, Patna, Dacca, Cuttack, Gauhati, and Sylhet on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

Two papers will be set each day for the Pleadership Examination at 10 A.M. and 2 P.M., respectively, and the two papers for the Mookhtarship candidates will be set on the 19th February at the same hours.

Under no circumstances will any candidate be admitted to the examination-room after these hours.

The candidates will be required to produce at the examination extracts from the Register, which will be furnished to them by the District Judge through whom their applications have been sent to the Board of Examiners.

No candidate will be allowed to enter the examination-room with any memoranda or loose papers of any description (with the exception of the extracts abovementioned).

All writing materials will be provided, with the exception of pens, which the candidates must bring with them.

HENRY T. HYDE,
Secy. to the Board of Exmrs. for Pleadership and Mookhtarship.

NOTICE.

IN accordance with the Resolution of the Government of Bengal in the General Department, dated the 6th March 1886, published on page 541 of the *Calcutta Gazette* of the 31st of the same month, notice is hereby given that an examination for the admission of female students to the certificate class of the Calcutta Medical College will be held in the Theatre of that College on Tuesday, the 11th February 1890, and following days.

Hours and Subjects of Examination.

Tuesday.—English dictation, Grammar and Composition—from 1 to 4 P.M.

Wednesday.—History of England and India. Geography: General, and of India in particular—from 1 to 4 P.M.

Thursday.—Arithmetic: the first four rules, vulgar and decimal fractions, and proportion—from 1 to 4 P.M.

Candidates should apply in writing to the Principal of the Medical College, Calcutta, not later than Saturday, the 8th February, for permission to appear at the examination.

Applications for permission to reside in the Sarnamayi Hostel should be addressed to the Honorary Secretary to the Bengal Branch of the Countess of Dufferin's Fund, 86, Chowringhee, Calcutta.

A. CROFT,
Director of Public Instruction.

The 6th January 1890.

NOTIFICATIONS OF THE BOARD OF REVENUE.

No. 1594B.

NOTICE is hereby given that the Second Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Monday, the 3rd February 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th February 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th February 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th February 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the year 1890 about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 3rd March	1890	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,	...	2,250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	22,500	25,000	47,500

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 30th December* 1889.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held on the 8th March next, in Ward No. III of the Birnagore Municipality, in the district of Nuddea, for the purpose of electing a Commissioner for the ward in the place of Baboo Priya Nath Chatterjee, who has ceased to be a Commissioner by being absent from six consecutive meetings.

A. SMITH, *Commissioner.*

COMMR'S. OFFICE, PRESIDENCY DIVISION, CALCUTTA, *the 11th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 10th ultimo in Ward No. II of the Maniktolla Municipality, Baboo Jagodiswar Mittra has been duly elected a Commissioner for that Ward in the place of Baboo Gouri Sunker Ghosal, deceased.

A. SMITH, *Commissioner.*

COMMR.'s OFFICE, PRESY. DIVN., CALCUTTA, *the 9th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held on the 7th March next in Ward No. III of the Ranaghat Municipality, in the district of Nuddea, to elect a Commissioner for that Ward in the place of Baboo Jadunath Mokerjea, resigned.

A. SMITH, *Commissioner.*

COMMR 's OFFICE, PRESY. DIVN., CALCUTTA, *the 13th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 21st ultimo in Ward No. III of the City Moorshedabad Municipality, Baboo Indra Chand Nahata, has been duly re-elected as Commissioner for the Ward.

A. SMITH, *Commissioner.*

COMMR.'s OFFICE, PRESY. DIVN., CALCUTTA, *the 13th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held in Ward No. 1 of the Municipality in Deoghur in the Sonthal Pergunnahs on the 23rd December last, Baboo Bichan Dutt Jha was elected Commissioner of the Municipality at that station, *vice* Baboo Rassick Lall Tewary, deceased.

C. C. STEVENS, *Offg. Commissioner.*

BHAGULPORE, *the 10th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held in the Sewan Municipality, in the district of Sarun, on the 24th February next, to elect Municipal Commissioners in place of Baboo Ramphal Sah, resigned, and of Shaikh Atta Hossein who has ceased to be a Commissioner under the operation of section 20 of the Municipal Act.

J. BOXWELL, *Offg. Commissioner.*

PATNA, COMMR.'s OFFICE, *the 4th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27 Act III (B.C.) of 1884, on Friday, the 20th December 1889, Baboo Devendra Nath Hait has been elected a Commissioner of the Tumlook Municipality, in the district of Midnapore, *vice* Baboo Uma Charan Missra, resigned.

N. S. ALEXANDER, *Commissioner.*

COMMR.'s OFFICE, BURDWAN DIVN., *the 8th January* 1890.

NOTIFICATION.

The 8th January 1890.—It is hereby notified for general information, under Rule 21 of the Election Rules, that an election will be held, under section 27 of Act III (B.C.) of 1884, on Saturday, the 8th February 1890, in Ward No. III of the Naraingunge Municipality, in the district of Dacca, for the purpose of electing a Municipal Commissioner in the place of Mohamad Pir Baksha, who has ceased to be a Commissioner under section 20 of the Act.

A. L. CLAY, *Offg. Commissioner.*

Pearl Fishery in Ceylon, 1890.

The following notice is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

PEARL FISHERY, 1890.

NOTICE is hereby given that a Pearl Fishery will take place at Marichikaddi, in the Island of Ceylon, on or about 20th February 1890. The bank to be fished is the Muttuvarathu Paar, 5 to 7½ fathoms water, lying off Dutch Bay, partly fished in March last, now estimated to contain oysters sufficient to employ 100 boats for 30 days with average loads of 8,000, each boat fully manned with divers per day.

2. It is therefore necessary that such boatowners and divers as may wish to be employed at the said fishery should be at Marichikaddi on or before 15th February next, and it is notified that the first day's fishing will take place on or about 20th February, if possible.

3. Marichikaddi is on the mainland, eight miles by sea south of Sillavaturai, and supplies of good water and provisions can be obtained there equal to Sillavaturai.

4. The fishery will be conducted on account of Government, and the oysters put up to sale in such lots as may be deemed expedient.

5. The arrangements of the fishery will be the same as have been usual on similar occasions.

6. All payments to be made in ready money in Ceylon currency.

7. Drafts on the Banks in Colombo or bills on the Agents of this Government in India, at ten days' sight, will be taken, on letters of credit being produced to warrant the drawing of such drafts or bills.

8. For the convenience of purchasers, the Treasurer at Colombo and the different Government Agents of Provinces will be authorised to receive cash deposits from parties intending to become purchasers, and receipts of these officers will be taken in payment of any sums due on account of the fishery.

9. No deposit will be received for a less sum than Rs. 250.

By His Excellency's command,

E. NOEL WALKER,

Colonial Secretary.

COLONIAL SECRETARY'S OFFICE, COLOMBO, *the* 19*th December* 1889.

Statement of the valuation and produce of 15,000 *Oysters taken from the Muttuvarathu Paar in November* 1889.

DESCRIPTION.	Size in Basket.	Number.	Quantity in Chevvu.	Kalangey and Manchady.	Total Kalangey and Manchady.	Value.	Total value.	Per Chevvu.	Per Kalangey.
				K. M.	K. M.	Rs. C.	Rs. C.		
1 Anatári	20	1	45/320	0 0 7/16	.....	5 91	... .	12 star pagodas	.....
2 Kuruval Kalippu ..	....	1	60/320	0 0 3/16	.....	5 25	... ..	8 ditto ...	.....
3 Pisal	.....	1	.. ...	0 0 11/16	0 1 5/16	0 22	11 38	.....	2 star pagodas.
4 Ani	30	1	23/320	0 0 5/16	.....	6 29	.....	25 star pagodas	.
5 Pisal	.....	2	.....	0 0 11/16	.....	0 24	.. ...	.....	2 star pagodas.
6 Kodai	.....	4	.....	0 0 11/16	0 1 11/16	0 16	6 69	.....	1 ditto.
7 Kalippu	50	3	28/320	0 0 11/16	.....	3 32½	.....	8 star pagodas	.....
8 Kuruval	.....	4	.....	0 1 3/16	.....	1 25	.....	.....	6 star pagodas.
9 Pisal	.....	3	.....	0 0 11/16	... .	0 30½	.. ...	.....	2 ditto.
10 Kodai	.....	2	.....	0 0 7/16	0 3 11/16	0 7½	4 95½	.....	1 ditto.
11 Ani	80	3	20/320	0 0 7/16	.....	5 46½	.....	25 star pagodas	
12 Anatári	.....	3	15/320	0 0 7/16	.....	2 62½	.....	16 ditto ...	...
13 Kalippu	.....	6	40/320	0 1	.....	3 50	.....	8 ditto ...	.. ...
14 Kuruval	.....	16	.... .	0 2 13/16	.....	2 88½	.....	.....	6 star pagodas.
15 Pisal	.....	19	.....	0 3 11/16	.....	1 38	.....	.....	2 ditto.
16 Kodai	.....	4	.....	0 0 5/16	0 9 5/16	0 10	15 95½	.....	1 ditto.
17 Vadivu	100	.....	2 1/320	1 3	4 2 5/16	190 31	190 31	15 star pagodas	... ..
18 Excluding	200	.....	1 15/320	1 5 13/16					
19 Madanku	400	.....	1 1/320	1 13 7/16					
			4 11/16						
20 Túl	600	.....	.....	1 7 5/16	2 17	49 87½	49 87½	.....	5 star pagodas.
21 "	800	.....	.. ..	0 14 5/16					
22 "	1,000	.....	.....	0 15 5/16					
23 Mâsu-túl	.....	.....	.....	1 18 13/16	1 18 13/16	16 90	16 90	.....	2½ ditto.
					9 13 13/16	.....	296 6½		
24 Shell Pearls ...	.....	.....	.....	0 9	0 9	.....	3 33½	.....	.....
					10 2 13/16	.....	300 0		

Average per 1,000 Oysters, Rs. 20.

J. DONNAN, Inspector of Pearl Banks.
M. SEEMANPILLAI, Mudaliyár, Adikar of Musalai, &c.
Signed also by 4 Pearl Merchants.

Silávatturai, the 29th November 1889.

The Calcutta Gazette.

WEDNESDAY, JANUARY 15, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India, in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 10th January 1890.

VOLUNTEER CORPS.

APPOINTMENTS.

No. 35.—*Calcutta Naval Volunteers*—

Mr. Carlton Cathcart Collingwood to be Lieutenant to complete the establishment.

Mr. George Pointon and Mr. William Thomas Wawn to be Sub-Lieutenants to complete the establishment.

Mr. Samuel Reed to be Paymaster, and the Reverend Herbert Octavius Moore to be Honorary Chaplain to complete the establishment.

No. 36.—*Calcutta Volunteer Rifle Corps*—

Mr. Charles Malcolm Sinclair to be Second Lieutenant, *vice* McLaughlin, resigned.

No. 37.—*Dacca Volunteer Rifle Corps*—

Mr. George Nixon to be Second Lieutenant, *vice* Finlayson, resigned.

PROMOTIONS.

No. 38.—*Calcutta Volunteer Rifle Corps*—

Lieutenant W. M. Jones to be Captain, *vice* Whitehead, resigned.

RESIGNATIONS.

No. 39.—*Calcutta Volunteer Rifle Corps*—

Captain H. A. Erskine resigns his commission.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, JANUARY 15, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 7th January 1890.—It is hereby notified that, under section 11 of Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of Jessore :—

Local Boards.	Names of members.
Sudder	Raja Gyanada Kanta Roy. Baboo Jadu Nath Mozumdar. „ Umesh Chandra Ghose. „ Dharani Dhur Haldar. Revd. R. H. Tregillees. Syed Ahmad.
Narail	Baboo Jagendra Nath Sen, M.A. „ Bepin Behari Bose. „ Kiron Chandra Roy.
Jhenidah	Mr. Charles Tweedie. Baboo Haranath Chatterjee. „ Ramottam Ghose Chowdhuri.
Magura	Mr. J. H. Oatts. Moulvi Afsaruddin Khan Chowdhury. Baboo Tarak Chandra Sen.
Bongong	Baboo Gyanada Sanker Bose. „ Kamakhya Nath Acharjee. „ Sura Nath Chowdhuri. „ Harish Chandra Roy. „ Bama Charan Bose.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th January 1890.—It is hereby notified for general information that, under the power vested in the Local Government by clause 2, section 30 of Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to exclude from the operation of the said Act the road from the foot of the hill fort at Buxar to the railway station, which lies within the limits of the Buxar Municipality. The Lieutenant-Governor is also pleased to authorize its transfer to the charge of the District Board of Shahabad.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 9th *January* 1890. —It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Ananda Chandra Sen to be a Commissioner of the Kendraparah Municipality, in the district of Cuttack, *vice* Baboo Ram Prosad Das, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 9th January 1890.—In paragraph 3 of Government notification, dated the 2nd December 1889, published at pages 267-68, Part IB of the *Calcutta Gazette* of the 4th idem, containing the names of the members of the Ghattal Local Board, in the district of Midnapore, *for* "Hazi Bakaulla" *read* "Kazi Bakaulla" and *for* "Baboo Radha Krishna Seal" *read* "Baboo Radha Kishore Seal."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 10th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Dr. R. M. Blaker to be a Commissioner of the Dinagepore Municipality, *vice* Assistant Surgeon Kali Prosunno Kumar.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th January 1890.—It is hereby notified that, under section 11, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of Furreedpore :—

Local Boards.	Names of Members.
Furreedpore...	The Road Cess Deputy Collector for the time being, *ex-officio*. Choudhuri Fateh Ali. Baboo Khorgeswar Bose. Moulvie Abdur Rahim.
Goalundo ...	Baboo Abhay Shankar Mozoomdar. Moulvie Faiz Baksh Choudhuri. Baboo Akhay Kumar Sarkar.
Madaripore ...	Baboo Kherod Chandra Rai. Munshi Basiraddin Ahmed. Baboo Dwarkanath Sen. Syud Abdur Rub Choudhury.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th January 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, Mr. W. A. Elliot has been elected by the members of the Chupra Local Board in the district of Sarun to be a member of the District Board of Sarun, *vice* Mr. C. B. Boileau.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Dr. G. Price and Baboo Nogendra Nath Ghose to be Commissioners of the Burdwan Municipality in the district of Burdwan, *vice* Dr. R. L. Dutt, transferred, and Mr. H. R. Reily who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 11th January 1890.—In the notification dated the 2nd September 1889, published at page 189, Part IB of the *Calcutta Gazette* of the 4th idem, appointing Mr. Elliot to be a member of the Chupra Local Board, *for* Mr. W. N. Elliot *read* Mr. W. A. Elliot.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 12th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Dr. W. Beatson to be a Commissioner of the Bhagulpore Municipality in the district of Bhagulpore, *vice* Dr. G. Price, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that, under section 11, Act III (B.C) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of Khoolna :—

Local Boards.	Names of Members.
Khoolna	The Civil Medical Officer. Baboo Ambica Charan Sen, B.L. Munshi Abdul Ahad Sardar. Baboo Indu Bhusan Mozumdar, B.A.
Bagirhat	Baboo Gobind Chandra Das. ,, Ashutosh Chakravarti. ,, Rajendra Kumar Ghosh. ,, Kailash Chandra Sen.
Satkhira	Baboo Poresh Nath Chatterjee. ,, Girijanath Roy Chowdhuri. ,, Nepal Kristo Ghosh. ,, Asutosh Roy Chowdhuri. Moulvie Abdul Aziz.

The Lieutenant-Governor is pleased to appoint the following gentleman, under section 10 of the Act, to be a member of the Bagirhat Local Board :—

Baboo Mohim Chandra Ganguli.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that, under section 16, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Haribulhab Bose to be a Commissioner for Ward No. IX of the Cuttack Municipality, in the district of Cuttack, *vice* Baboo Hem Chandra Ghose, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that, under section 19, clause (3) of the Bengal Local Self-Government Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Baboo Prasanna Kumar Karfarma, Deputy Magistrate and Deputy Collector, and Baboo Gunga Govinda Sarkar, Assistant Surgeon, to be members of the District Board of Bogra in the place of Baboo Kailash Govinda Das and Dr. R. M. Blaker, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that the Lieutenant-Governor approves, under section 25, Act III (B. C.) of 1885, the election by the members of the Midnapore Local Board, in the district of Midnapore, of Baboo Kartic Chandra Mitra to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that the Lieutenant-Governor approves, under section 25, Act III (B. C.) of 1885, the election by the members of the Contai Local Board, in the district of Midnapore, of Baboo Upendra Narain Mozumdar to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that the Lieutenant-Governor approves, under section 25, Act III (B. C.) of 1885, the election by the members of the Tumlook Local Board, in the district of Midnapore, of Baboo Umesh Chandra Kotal to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—It is hereby notified that the Lieutenant-Governor approves, under section 25, Act III (B. C.) of 1885, the election by the members of the Ghattal Local Board, in the district of Midnapore, of Baboo Probodhe Chundra Bose to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 13th January 1890.—In paragraph 1 of notification, dated the 2nd December 1889, published at page 267, Part IB of the *Calcutta Gazette* of the 4th idem, notifying the names of gentlemen elected to be members of the several Local Boards in the district of Midnapore, *for* "Syud Enamali" of the Tumlook Local Board *read* "Syed Jonabali."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 14th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Dr. F. C. Nicholson to be a Commissioner of the Dacca Municipality, *vice* Dr. C. J. W. Meadows.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 10th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Naraingunge Municipality for a public purpose, viz., for a road from Bandar to Baidyabazar road, called Nabigunge road, in the villages of Nabigunge, Mundamala, Ekrampur and Bandar, pergunnah Shonargan, zillah Dacca, it is hereby declared that for the above purpose a piece of land measuring, more or less, 53 bighas 10 cottahs and 12 chittacks of standard measurement, is required. The land is bounded on the North by the Baidyabazar road; on the South by the Bandar road and Rali Brothers' cooly line; and on the West and East by the land belonging to Nabigunge, Mundamala, Ekrampur and Bandar villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, JANUARY 15, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Monghyr will be put up for sale at the Collector's Office of that district on 28th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.		*I.—Permanently-settled estates.*		Rs. A. P.	Rs. A. P.	Rs. A. P.
13	Joas, pergunnah Salemabad.	613 14 0	.....	2a. 13g. 6c. 13b. ...	Kuldip Narain Singh and others.	102 5 0	.....	104 6 0
13	Ditto ...	613 14 0	.....	3a. 3d. 18c. 6f. 14r. ..	Ramman Singh and others.	129 10 0	.....	74 10 6
283	Belobhi, pergunnah Amerthu	641 1 0	.....	2a. 9d.	Gopal Singh and others ...	96 3 0	.....	10 1 0
283	Ditto ...	641 1 0	....	3a.	Ramadheen Rai and others.	120 1 0	.....	29 1 0
602	Parora, pergunnah Hallia.	830 15 0	.....	1 dam	Lachmi Kumri	2 10 0	.....	0 2 0
602	Ditto ...	830 15 0	.....	1a. 11d. 1c. 1d. 4r. 2p.	Lal Mohun Mullik and others.	132 2 0	.....	1 5 6
629	Sultanpur Tetri, pergunnah Hallia.	893 0 0	.....	11a. 9d 1k.	Sheik Tohower Hossain and others.	639 5 0	.....	131 15 0
804	Taluqa Tulsipur and others, pergunnah Malki.	932 10 0	... ..	1a. 18d. 2d.	Manohar Lal and others...	110 15 3	.....	52 12 9
830	Ganga Persad, pergunnah Malki.	588 3 0	.....	2a. 1c. 1k. 9r.	Reet Lal Singh and others	121 2 0	.....	61 5 3
1451	Bhawanandpur *alias* Ramdeari, pergunnah Malki.	1,166 13 0	.....	1a. 5g. 1c. 3d.	Shew Dyal Singh and others.	91 9 0	.....	21 14 0
1451	Ditto ...	1,166 13 0	.....	5g. 2c. 8d. 2k. 5f.	Mussamut Amrito Kumri and others.	20 15 0	.....	3 15 0
1451	Ditto ...	1,166 13 0	.....	16g 2c. 6d.	Bhojraj Singh and others	60 12 0	.....	16 11 6
2305	Chuckangra, pergunnah Amerthu.	1,083 14 0	.. ...	1a. 15d. 11c. 2b. 4f. 8b.	Shah Mohamad Hossain and others.	190 7 0	.....	29 14 0
2317	Imamnagar, pergunnah Amerthu.	513 14 0	Whole ...	.....	Syed Tasaduk Hossain and others.	.....	0 13 6	.....
2746	Halsi, pergunnah Amerthu.	1,504 1 0	.....	13a. 16d. 5c. 2b. ...	Beni Singh and others ...	1,282 0 0	.....	220 14 0
2779	Mahiuddinnagar Karik, pergunnah Amerthu.	584 11 0	.....	3a.	Kokil Singh and others ...	95 3 0	.....	11 14 6
2779	Ditto ...	584 11 0	...	2a.	Rohim Singh and others	120 9 0	.....	0 14 0
5349	Mohammedpur Fataha, asli and dakhil, pergunnah Emadpur.	708 0 0	... ..	12a.	Moulvi Asrafuddin Ahmad and others.	531 0 0	.....	18 14 9
				II.—Temporarily-settled estates.				
1483	Akberpur Rarari, pergunnah Malki.	783 13 0	.....	14a.	Kharag Singh and others	685 14 0	.....	60 8 8

Monghyr Collectorate, the 4th December 1889. T. E. COXHEAD, Officiating Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 31st January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
	Thanas Town and Ranzan—							
2 / 2	Taruf Ajoidha Ram, Fattisbad.	723 13 0	Yes: the whole estate is to be sold.	.....	Pran Kristo Das, Ram Shabak Das and others.	.....	49 8 8	.....
	Thanas Patya, Futtickcherry, Hathazari, and Satkania—							
25 / 51	Taruf Alcarkhan ...	1,606 0 9	No: only shares are to be sold.	Separate accounts having been opened under Act XI of 1859, share No. I, Asad Ali Khan; share No. II, Akber Ali Khan, share No. III of the remaining proprietors.	Share No. 1, proprietor Anwar Ali Khan.	468 7 5	....	139 1 6
					Share No. 2, Asharaf Ali Khan and Jandah Bibi and others.	811 6 3	.....	240 14 2
					Share No. 3, Uzir Ali and Anwar Ali Khan.	326 3 1	.....	96 13 9
								476 12 8
	Thanas Futtickcherry, Hathazari, Patya, Ranzan, Town, and Zowargunge—							
28 / 54	Taruf Anandi Ram, Kanongoe.	849 6 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 10, Ram Joy Mohazan; share No 11, Ram Joy Mohazan; share No. 13, Sudder Ali, and share No 24, Bishambur.	Share No. 10, Kali Kumar, Durgakripa De.	12 11 0	.....	3 13 3
					Share No. 11, Kali Kumar, Durgakripa De.	14 14 0	.....	4 6 6
					Share No. 13, Asharaf Ali Aminolla, *alias* Gurun Meah	11 0 0	.....	3 4 3
					Share No. 24, Kali Kumar and Durgakripa De.	53 15 5	.....	16 0 6
								27 7 6
	Thanas Hathazari, Ranzan, and Town—							
29 / 55	Taruf Anz Nasarat ...	791 12 0	Yes: the whole estate is to be sold.	.....	Sheik Karam Ali Meah.	.....	235 0 1	.....
	Thana Futtickcherry—							
37 / 64	Taruf Annundy Manollah	1,160 0 3	Ditto ..	.....	Nemai Charan Nandi, Gunashila.	.....	59 1 6	.....
	Thana Ramzan—							
83 / 391	Taruf Basanta Ram, Fatehbad.	557 14 3	Ditto ..	.....	Anunda Mohon, Samad Ali and Sreemati Meherjan Bibi and others.	.....	31 1 0	.....
	Thanas Hathazari, Futtickcherry, Patya, Town, and Satkania—							
92 / 401	Kismut Balaram Sircar Baboit, taruf Sonoullah Khan.	1,063 11 3	Ditto ...	.....	Gris Chandra Rakhit and Guru Das Rakhi	.....	315 12 6	.....
	Thanas Bhatiari, Hathazari, Ramoo, Zorwargunge, Patya, and Satkania—							
116 / 522	Kismut Bissessari Baboit, taruf Gouri Sankur.	1,238 12 9	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 13 of the remaining proprietors.	Share No. 13, Mohabat Ali, Mahamed Hossen, Kali Charan and others.	404 13 11	.....	3 13 6
	Thanas Futtickcherry, Hathazari, Patya, Town, Satkania, and Ramoo—							
257 / 1282	Taruf Jubber Dust Khan .	6,538 11 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 1, Fazal Ahamud.	Share No. 1, Fazal Ahamud and Basal Samad.	2,043 14 5	.....	299 13 5
	Thanas Futtickcherry, Hathazari, Patya, and Satkania—							
284 / 1467	Taruf Karim Khan ...	715 13 0	Yes: the whole estate will be sold.	.....	Anwar Ali Khan ..	.....	210 0 0	.....
	Thanas Patya and Satkania—							
286 / 1469	Taruf Komur Kulli ...	1,015 13 0	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 10, Dwarka Nath Kundo.	Dwarka Nath Kundo	68 10 5	.....	20 5
	Thana Ranzan—							
305 / 1552	Taruf Kanus Fernandes ...	1,640 5 3	Yes: the whole estate will be sold.	.....	Gris Chandra Roy Rakhit, Guru Das Roy Rakhit, and others.	.....	486 15 0	.....
	Thana Bhatiari—							
336 / 1751	Taruf Modun Chowdhury	688 6 5	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 4, Koshalya.	Shib Prosad Shukul	141 10 0	.....	42 9 9
	Thanas Hathazari and Ranzan—							
372 / 1889	Taruf Mohomad Shafi Nazir.	558 7 3	Yes: the whole estate will be sold.	.....	Susty Charan Sen, Bhairub Chandra Chowdhury and others.	.....	155 12 3	.....

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
387 / 1900	Thana Zorwargunsa— Taruf Mohomed Monohur	636 15 6	Yes: the whole estate will be sold.	.....	Sreemati Raiso Nissa Chowdhuria.	.....	198 0 0	.....
	Thanas Hathazari, Patya, Ranzan and Town—							
480 / 2439	Kismut Pran Kristo, Gopi Mohun, Guru Das and Haridas Roy Haboit, taruf Jugul Kissor Chowdhury.	3,353 14 6	No: only shares will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2, Akhil Chandra Roy, share No. 6 of the remaining proprietors.	Share No. 2, Akhil Chandra Roy.	381 8 9	.....	113 4 4
					Share No. 6, Grig Chandra Roy, on behalf of minor Bhikon Chandra and Esof Ali and others.	1,329 2 8	.....	365 4 7
								478 8 11
	Thanas Futtickcherry, Patya, Hathazari, Ranjan and Town—							
	Taruf Pran Ballab ...	944 5 5	No: only a share will be sold.	Ditto, share No. 2, Mohesh Chandra Chowdhury.	M h sh Chandra Chowdhury and Obhoy Charan Chowdhury and others.	118 0 8	.....	35 0 9
	Thana Ranzan—							
51 / 2538	Taruf Raghob Juggodish	515 0 5	Ditto ...	Ditto, share No. 12 of the remaining proprietors.	Gunga Das, Brejo Mohon and others.	122 2 1	.....	24 3 7
	Thanas Patya, Ranzan, Town, and Hathazari—							
51 / 2540	Taruf Ram Mohon Sen ...	884 11 3	Yes: the whole estate will be sold.	.....	Prasanna Kumar and Ali Meah.	.....	129 13 6	.....
	Thanas Chakaria, Patya, Ranzan, and Town—							
527 / 2554	Taruf Ram Sondur Kanongoe.	849 6 6	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2 of the remaining proprietors.	Srimoti Latifa Khatun.	681 6 6	.....	202 3 9
	Thanas Zorwargunge, Patya, Ranjan and Satkania—							
835 / 2565	Taruf Ram Kishore Kanongoe.	818 11 10	Ditto ...	Ditto, share No. 6, Ram Chandra Biswas and Bangshi Badon Biswas.	Mohesh Chandra Bhuttacharjee.	14 11 0	.....	4 5 9
869 / 2929	Thanas Patya and Town— Taruf Sachi Roshun ...	732 11 0	No: shares will be sold.	Ditto, share No. 1, Sheek Sadak Ali; share No. 2, Keramut Ali.	Share No. 1, Sadut Ali Chowdhury.	83 5 3	.....	24 7 1
					Share No. 2, Anwar Ali Chowdhury.	188 2 9	.....	17 10 3
								42 1 4
	Thanas Bhatiari, Hathazari, Zowargunge, Patya, Ranzan, Town and Satkania—							
873 / 2933	Taruf Sachi Ram Kanongoe.	26 12 9	No: shares will be sold.	Separate account having been opened under Act XI of 1859, share No. 1, Lal Mohomed; share No. 16, Dwarka Nath Kanongoe; share No. 52, Ram Kumar Dey and others; share No. 63 of the remaining proprietors.	Share No. 1, Lal Mohamed.	4 14 3	.....	1 7 3
					Share No. 16, Dwarka Nath Kanongoe on behalf of Lakhi Narain Chackro.	4 4 6	.....	1 4 3
					Share No. 52, Ram Kumar Brejo Bashi.	0 10 6	.....	0 3 11
					Share No. 63 of the remaining proprietors Assanullah Chowdhury and others.	293 0 3	.....	83 3 9
								86 7 2
	Thanas Hathazari, Patya, Ranzan and Town—							
899 / 3054	Taruf Shib Durga Sharan...	2,042 8 9	No: only a share will be sold.	Ditto, share No. 8, Shoobal Chandra Das.	Shoobal Chandra Das.	25 14 5	.....	7 9 5
	Thana Chakaria—							
906 / 3113	Taruf Sheremast Khan Chowdhuri.	527 6 6	Ditto ...	Ditto, share No. 1, Fazal-ahamed.	Share No. 1, Fazal-ahamed, Hazal Samad and others.	165 10 0	49 2 8	.....

N. B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 25th September 1889.

Chittagong Collectorate, the 14th December 1889. G. H. ALLEN, for Offg. Collector

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Patna will be put up for sale at the Collector's Office of that district on 3rd February 1890, corresponding with 28th Magh 1297 F S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 28th September 1889 :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
11	Berhna Lashkaripur Busurg, pergunnah Bhimpur.	1,038 0 0	Whole.	.....	Kesho Lal and Kissen Prosad and others.	... ..	0 5 0	.....
12	Berhna Lashkaripur Busurg Nisf, pergunnah Bhimpur.	2,129 0 0	.....	15a. 19d.	Kesho Lal and others, non-applicants.	2,123 5 6	...	539 13 0
17	Indowt, pergunnah Shahjehanpur.	1,015 0 0	Whole ..	... .	Syed Wajid Hosain and others.	.....	9 15 0	.....
20	Sani Hissa Nisf, pergunnah Biswak.	1,255 2 8	.....	1a. 5d. 7k. 17b. 6pk. 10t.	Mussamut Naziran and others, applicants for separation of accounts.	99 13 0	.....	14 4 8
20	Ditto ...	1,255 2 8	.....	1a. 11d. 13k. 6r. 8pk. 9r. 4t. ...	Mussamut Rohiman and others, applicants for separation of accounts	124 2 11	.....	11 10 5
21	Bhadsara, pergunnah Masaudha.	1,314 5 6	.....	Gopepur 1a. 4p.	Hardoot Narain Singh, applicant for separation of accounts.	3 2 5	....	6 4 10
28	Champur Shekhopur Barhampur, pergunnah Azimabad.	913 0 0	.....	Shekhopur 3a.	Rameshwar Singh and others, applicants for separation of accounts.	57 1 0	.....	11 1 8
28	Ditto ...	913 0 0	.....	Shekhopur 2a.	Rambollab Singh, applicant for separation of accounts.	38 0 8	.....	0 0 1
28	Ditto ...	913 0 0	.....	Shekhopur 18a. 1d. 11k. 19b. 14pk. 16r. 17rot. 10bat'ki. Barhampur 6a. 18d. 6k. 15b. 7pk.	Gowri Shanker and Parsah Singh and others, non-applicants.	210 6 8	.....	3 0 6
40	Bazidpur Parthu, pergunnah Telladiha.	533 5 4	.....	9a. 6p.	Mussamut Jharokha Koer and others, non-applicants.	332 3 8	.....	3 0 5
47	Hissah Chawsanda, pergunnah Biswak.	906 10 8	.....	6a. 16k. 13b. 6pk. 13r.	Malik Zohurul Haq and others, non-applicants.	342 5 0	.....	9 11 2
65	Chak Kudarman, pergunnah Phulwari.	821 5 3	.....	Chak Kudarman 4a. 9d. 2k. 6b. 13pk. 7r.; Keshwarpur Digha 1a. 3d. 1k. 1b. 5pk.	Sheh Lal Mohommad and others, non-applicants.	113 13 0	.....	9 8 5
65	Sokhulpur, pergunnah Pilich.	745 11 2	.....	10d. 14k. 4b. 6pk. 5t.	Chowdhry Harbans Narain Singh, applicant for separation of accounts.	24 15 9	.....	1 8 9
65	Ditto ...	745 11 2	.....	6a. 12d. 1k. 15b. 13pk. 19r. 5t. Tilwari.	Bidhi Chand and others, non-applicants.	306 4 3	....	1 13 11
69	Poona Chharyari, pergunnah Pilich.	1,068 12 .0	Whoe ...	.....	Baboo Dwarka Nath, Manager, Court of Wards, in charge of the estates of lunatic Debi Prasad.	.....	130 11 4	.....
70	Gobindpur Berhna, pergunnah Bhimpur.	624 0 0	Do. ...	.....	Durga Singh and others.	.....	12 3 0	..
78	Deara Mo hare Kothi Shora, pergunnah Azimabad.	854 5 7	.....	4a.	Shee Persad Singh and others, applicants for separation of accounts.	313 9 5	.....	30 3 4
78	Ditto ...	854 5 7	.....	7a. 1p. 10k.	Mussamut Woluyti Jan and others, non-applicants	330 6 11	.....	14 8 1
98	Doiya, pergunnah Biswak.	1,169 11 6	Whole...	.....	Syed Ali Hossein and others.	.....	8 7 6	.....
101	Kapaiyawan, pergunnah Pilich.	1,813 6 1	.....	14a. 8d. 12k. 13b. 18pk.	Syed Mahbor Rohuman, Manager of the estate of Debi Persad, lunatic, applicant for separation of accounts.	1,635 2 0	.....	74 12 10
102	Kaila, pergunnah Pilich.	854 6 5	Whole...	.....	Mussamat Sharfan and others.	.....	7 6 3	.. .
102	Dowlatpur Deoria, pergunnah Ballia.	871 7 0	Do. ...	.....	Mussamut Bibi Makhdooman and others.	.....	19 1 3	...
104	Ekaara, pergunnah Biswak.	1,338 13 2	Do. ...	.....	Mir Enayat Hosain and others.	.....	0 13 3	...
113	Mohammadpur, pergunnah Pilich.	538 10 8	.....	Mohammadpur 11a. 11d. 10k.; Sekandarpur 16a. Yarpur Balwa 8a.	Babu Parmdh Narain Singh and others, non-applicants.	399 10 8	... .	3 9 8
126	Ghostawan, pergunnah Biswak.	659 3 11	.....	10a. 11d. 19k. 11b. 19pk. 14r. 2t. ...	Mussamut Fakhran Nissa *alias* Nanhi Begum and others, non-applicants.	436 13 8	.....	10 9 9
128	Norari, pergunnah Pilich.	1,174 6 5	Whole.	.....	Babu Parandip Narain Singh and others.	... ..	73 8 5	.....
129	Barubi Khasa, pergunnah Manair.	565 2 0	.	11a. 19p.	Reta Singh and others, non-applicants.	415 0 3	. ...	40 11 5
135	Mirzapur Berhna, pergunnah Bhimpur.	737 0 0	Whole...	....	Mussamut Soobanso Kuer and Ram Sahai Singh and others.	.....	60 0 9	
135	Khagura, pergunnah Shahjehanpur.	1,495 14 6	Do. ...	.....	Mussamut Bibi Khadaja and others.	.....	109 9 3	.....

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
143	Peer Barhawna, pergunnah Pilich.	Rs. A. P. 520 2 8	.....	5a. 12d. 12k. 10b. 9ph. 2t. ...	Mussamut Sharfan and others, non-applicants.	Rs. A. P. 204 3 3	Rs. A. P.	Rs. A. P. 6 2 2
147	Qasbe Barhawna, pergunnah Pilich.	5,712 0 0	.....	Qasbe Barhawna 2a.; Korut 2a.; Barara 2a.; Arawan 2a; Bahhaniawan 2a.; Athbalpur Paithera 2a.	Mussamut Fasehan, applicant for separation of accounts.	714 0 6	.....	0 0 6
147	Ditto	5,712 0 0	.....	Qasbe Barhawna 12a. 3d. 2k. 10b. 1ph. 10r.; Korut 11a. 6d. 15k. 16b. 16ph. 10r.; Barara 12a. 17d. 10k. 2b. 7ph. 10r.; Arawan 12a. 17d. 10k. 2b. 7ph. 10r; Bahhaniawan 13a 5d. 2k. 10b.; Athbalpur Paithera 12a. 5d. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kefayat Hosain, and others, non-applicant.	4,480 10 10	.....	338 0 5
153	Bakawan, pergunnah Gyaspur.	724 4 3	Whole.	... .	Madiput Narain *alias* Munshi Mahto and others.	.....	4 9 6	... .
154	Rampur Imi, pergunnah Pilich.	563 7 6	Do. ...	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Prasad Singh and others.	.....	0 7 6	.....
158	Raipur Astha, pergunnah Pilich.	1,442 2 3	. ...	8a. 3d. 17k. 13b. 2ph. 10r. ...	Lall Narain Singh, applicant for separation of accounts.	138 13 6	.....	8 8 6
158	Ditto .	1,442 2 3	.	Raipur Astha 1a. 15d. 11k. 4b. 10ph.; Astha 1a. 7d. 11k. 15b. 7ph. 2r. 10t.	Shaik Abdul Hamid and others, non-applicants.	126 4 5	.....	0 7 0
169	Rampur Berhna, gunnah Bhimpur.	908 8 0	Whole.	.....	Sham Lal Singh and others.	.....	54 15 0	.....
172	Durveshpura, &c., pergunnah Behar.	832 0 0	.. ..	Durveshpura 10d. 10k.; Akhtyarpur Bareli 6a.; Gobindpur Bhedi 8a.	Darshan Lal and others, non-applicants.	142 11 7	.....	14 4 10
180	Sernawan, pergunnah Pilich.	587 2 3	.....	5a. 18k. 8b. 5ph.	Perneshar Narain Singh and others, non-applicants.	184 9 3	.....	6 14 2
187	Shekh Mohammadpur, pergunnah Bhimpur.	592 14 0	. ..	11a.	Mussamut Saliman and others, non-applicants.	407 9 6	.....	22 3 10
188	Shekh Mohammadpur Hayatpur, pergunnah Bhimpur.	704 10 11	.. ..	10a. 3d. 11k. 11b. 4ph.	Harakh Narain Singh and others, non-applicants.	448 2 11	....	68 4 8
201	Pariawna, pergunnah Biswak.	1,706 10 0	.....	12a. 13d. 6k. 13b. 10ph. . ..	Babu Luchmi Narain and others, non-applicants.	1,351 1 9	.....	0 4 3
225	Akoerpur Bhadwar, &c., pergunnah Masandha.	3,215 10 9	.....	Akhherpur Bhadwan 16a.; Darawan 4a.; Panaoohi 16a.; Shorampur 16a.; Sherpura 16a.; Mushanpur Lachaman 16a.; Mominpur Na Dawana 16a.; Mascompur Bindowli 16a.; Chak Shamsuddin 16a.; Korara 16a.; Katari Bellari 16a.; Rupapur 16a.; Paigamberpur 16a.; Shewdaspur Kurkuri 16a.; Jadapur 16a.; Moazzamabad Bali Pakur 16a; Durgapur Anant 16a.; Sekaria 16a.; Parscorampur Heer 16a.; Jalalpur Ilahi 16a.; Rampur Mursoli 16a.; Kishwarpur 16a.; Shahzadpur Mosi 16a.; Atapur Rukun 16a.; Bela Gobindpur 16a.; Alampur Jarkha 16a.; Raghunathpur Mera 16a.; Saidabad Bekram 16a.; Patranga 16a.; Ahmadabad Khoniyan 16a.; Pali Patowna 16a.; Patowna 16a.; Raghunathpur Jag Bandan 16a.; Kaurikesho 16a.; Kishopur 16a.; Masaurha Khas 16a.; Hadnagar 16a.; Nasirpur Begah 16a.; Bihta 16a.; Abdullapur Khan Qali 16a.; Ganga Chak Mai Nezampur 16a.; Dadoopur 16a.; Mohammadkhanpur Dara 16a.; Fazilpur Patan 16a.; Ibrahimpur Jurga 16a.; Rampur Gunga 16a. Parscorampur Kanak 16a.; Bishunpur Malshahi 16a.; Sarawti 16a.; Karanpura 16a.			
227	Narendpur Kharownia, &c., pergunnah Azimabad.	5,885 5 0	.....	Hazratpur Akarya 17a. 15d. 11b. 2p.	Rachcya Singh, applicant for separation of accounts.	6 4 4	.....	3 5 3
227	Ditto ...	5,885 5 0	.....	Narendapur Kharownia 2a. 8p. .	Jagarnath Singh and Raghunath Singh, applicants for separation of accounts.	213 7 10	.....	0 0 9
229	Ditto ...	1,185 5 7	.....	Hiranandpur 16a.	Jagan Lal and others, applicants for separation of accounts.	57 9 8	.....	0 2 7
229	Ditto ...	1,185 5 7	.....	Janarjanpur 2a.; Hazratpur Akhariya 2a.	Ram Lall and others, applicants for separation of accounts.	17 1 8	...	0 3 8
229	Ditto ..	1,185 5 7	.....	Janarjanpur 2a.; Hazratpur Akhariya 2a.	Surjoo Mahto, applicant for separation of accounts.	17 1 8	.....	1 13 6
251	Amari O, Sain, &c., pergunnah Behar.	737 0 9	... ..	Akhtyarpur Pawa 5a. 2d. 10k. ..	Obirangir Singh and others, non-applicants.	267 11 6	.....	15 2 2
295	Mirzapur Gilani, pergunnah Tellaidha.	1,318 0 0	.....	7a. 10d.	Monlvi Jalaluddin and others, applicants for separation of accounts.	617 13 0	.....	12 12 3
315	Saidpur Gowhar Chak Madho, pergunnah Azimabad.	503 9 1	Whole...	.....	Syed Ali Ashraf *alias* Peyari Saheb.	.....	1 4 3	
317	Mandach Gyan Koer, pergunnah Tillaidha.	1,687 0 0	.. ...	8a. 11d. 13k. 6b. 14p....	Shekh Feda Ali and others, non-applicants.	904 15 1	..	5 4 3
347	Parthee, pergunnah Tillaidha.	800 0 0	.....	6d. 7b. 12r.	Syed Khairat Ahmad, applicant for separation of accounts.	15 0 9	.....	0 15 9
347	Ditto ...	800 0 0	.....	3a. 17d. 7k. 5b. 5ph. 12r.	Mussamut Jharokha Koer and others, non-applicants.	100 13 3	.....	0 1 5
355	Khoda Bakhshpur, &c., pergunnah Azimabad.	3,236 0 7	.....	Pir Mohamadpur Diara 16a. ..	Jaggu Lal Upadhia and others, non-applicants.	472 10 7	....	87 13 11
363	Akbarpur Bhadwar, &c., pergunnah Masawdha.	1,120 4 1	.....	Saidabad 16a.; Kesanpur Bangam 16a.; Abdallapur Khan Quilh 16a.	Raja Ram Singh and others, applicants for separation of accounts.	10 2 3	.....	4 6 3
363	Ditto ...	1,120 4 1	.....	Azizabad Haldha 9a. 10d. 7k. 12b.; Shahzadpur Nuri 9a. 10d. 7k. 12b.; Ghowpur Bhadwar 3a. 3d. 9k. 4b.	Ram Kewal Singh and others, applicants for separation of accounts.	38 14 8	.....	2 10 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
363	Akburpur Bhadwar, &c., pergunnah Masawdha.	1,120 4 1	.	Dorawan 1*a.* 5*d.*; Saidabad Bokra 1*a.* 5*p.*; Shewdaspur Kurkari 1*a.* 5*d.*; Sekaria 1*a.* 3*d.*; Daryapur Aunat 1*a.* 5*d.*	Ilaichi Kuer and others, non-applicants.	79 11 1	...	20 12 5
379	Jaipur Hathea Kandh, pergunnah Manair.	811 1 6	.....	10*a.*	Gobind Persad and others, non-applicants.	506 14 11	...	147 7 9
395	Rajapur Hassan Kurji Dogha, pergunnah Phulwari.	838 0 2	.....	Kurji Digha 8*a.*	Pitambar Singh and others, non-applicants.	284 7 1	.....	3 6 11
402	Dehri, &c., pergunnah Gyaspur.	3,136 0 0	.....	Dehri Dhanrar Badal Singh 10*a.* 10*d*; Parsawan 10*a.* 10*d.*; Sarajpura 10*a.* 10*d.*; Sarhan 10*a.* 10*d.*; Baddo Kesenpur 10*a.*; Chak Bamo Hiranand 10*a.* 10*d.*; Chak Bamo Sujar 10*a.* 10*d.*; Chak Hamed Sewdah 10*a.* 10*d.*; Chando Badul Singh Hiranand 10*a.* 10*d.*; Dhaurafpur 10*a.* 10*d.*; Chak Bhudeo 10*a.* 10*d.*; Gossa 10*a.* 10*d.*; Sherpur Mednapur 16*a.*; Chatarbhojpur Kesenpur 16*a.*	Mussamut Fahman and others, non-applicants.	2,192 12 9	.....	10 11 5
410	Ophansepur O, Qnabe Helan, pergunnah Pilich.	549 14 1	.....	6*a.* 10*p.* 8*k.* 14*m.* 5*d.* 15*b.*	Ambika Persad Singh and others, non-applicants.	235 10 6	.....	6 1 8
436	Lodipur Hathia Kandh, pergunnah Manair.	739 0 0	.....	6*a.* 8*p.*	Gobind Persad and others, non-applicants.	307 14 8	.....	30 0 0
476	Sartha Manpur Sartha, pergunnah Tiladha.	662 13 7	.....	7*a.* 15*d.* 10*k.*	Jugul Kiswar Singh and others, non-applicants.	322 1 6	....	1 15 5
478	Ditto ...	540 14 3	Whole.		Mussamut Toola Kuer, mother and guardian of Chattor Singh, and others.	.....	33 12 11	. ....
486	Panchtara, &c., pergunnah Behar.	1,160 0 0	.....	Panchtara 2*a.*; Mohenddinpur Deokhali Khard and Buzurg 1*a.*; Bhagpur Owkali 6*a.*, Mozafferpur Pitowmaia 2*a.*; Kaleyanpur Chistipur Azizullahpur Chistipur 10*d.*	Mohammad Sher and others, non-applicants.	70 9 10	.....	10 5 7
497	Poorah Noawan Sopao, pergunnah Behar.	1,398 13 0	.....	12*a.* 19*d.* 9*k.* 2*b.* 10*p.*	Mussamut Moriawan and others, non-applicants.	1,134 2 5	. ....	6 11 7
519	Oosap, pergunnah Sanda.	957 0 0	Whole.	....	Nawab Syed Latif Ali Khan, C.I.E., and others.	.....	7 14 5	.....
556	Kishunpur Karawha, &c., pergunnah Gyaspur.	781 0 0	.....	14*a.* 10*k.*	Khaje Syed Hassan and others, non-applicants	685 6 5	... ..	11 3 10
572	Sandh, &c., pergunnah Sandha.	796 12 10	.....	Sandh 15*a.*; Rahmatpur Pakri 14*a.* 2*d.* 10*k.*	Mussamut Sharfan and others, non-applicants.	727 11 9	.....	8 2 3
688	Anta Raghuram, pergunnah Gyaspur.	686 10 5	.....	6*d.* 8*k.* 18*b.* 17*pk.* 11*b.*	Hanuman Singh *alias* Chhedi Singh, applicant for separation of accounts.	13 13 3	.....	8 9 3
688	Ditto ...	686 10 5	.....	3*a.* 8*b.* 15*pk.* 12*b.*	Shewnarain and others, non-applicants.	125 3 7	.....	26 7 7
724	Jahangirpur Magarpal, pergunnah Manair.	2,316 4 4	.....	1*a.*	Rai Monohar Lal and others, applicants for separation of accounts.	144 12 3	.....	0 4 5
724	Ditto	2,316 4 4	... ..	15*d.*	Sitapat Sahai and others, applicants for separation of accounts.	108 10 0	.....	2 9 4
724	Ditto ...	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 15*b.*	Mussamut Sriana Kuer and others, non-applicants.	250 7 1	.....	10 5 2
726	Yakubpur Toongi *alias* Fatteh Ali Chak, pergunnah Behar.	681 0 0	.....	9*a.* 10*p.* 8*k.* 8*b.*	Syed Mohommad Ismail and others, non-applicants.	401 8 0	.....	40 9 7
				Second kind.				
736	Eraa Towfir Rampur Ghoghpur, pergunnah Manair.	1,236 5 11	Whole.	.....	Srikewal Singh ..	.....	2,005 15 4	.....
				First kind.				
742	Eraa Beshi Diarah Mahazi Jahangirpur Mucarpal, pergunnah Manair.	1,561 8 4	.....	2*a.* 8*d.*	Kisendyal Lal and others, non-applicants.	219 11 4	.....	12 4 8
779	Saidpur Soniawan, pergunnah Gyaspur.	626 9 2	.....	7*a.* 8*d.* 5*k.* 5*b.* 14*pk.* 7*r.*	Ahmad Hosain and others, non-applicants.	290 4 4	.....	9 6 5
796	Saksohra, pergunnah Gyaspur.	2,134 6 5	.....	Luchmanpur 2*a.* 5*p.* 17*k.* 6*b.* 13*d.*	Mussamut Girja Kuer and others, applicants for separation of accounts.	57 9 11	.....	1 0 6

Patna Collectorate, the 6th January 1890. PEARY MOHAN BANERJEE, Dy. Collr., for Offg. Collector.

NOTICE is hereby given that or the undermentioned plots of the Nizamut lakhraj State lands situated in the district of Burdwan, Nos. 72 to 75 will be put up to sale on the spot by the Deputy Collector at the Burdwan Collectorate, and No. 89 by the Sub-divisional Officer of Culna, on Monday, the 27th January 1890, corresponding to 15th Magh 1296 B. S.

The purchasers will be subject to the following conditions of sale:—

Conditions of Sale.

1. The lands to be sold revenue-free to the highest bidder above the upset price, which will be fixed for each plot at the time of sale.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and the purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3. If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the lands to be again put up to sale at the risk of the defaulting purchasers, after issue of advertisement, as in the case of original sale.

5. The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Boundaries.	Remarks.
				B. K. CH.		
72	Jaigirdagra	Ukhari ...	Shamurshahi.	7 5 7	East of the Bhagar jote lands of Saroo Patan; south and west of jote lands of Budhu Mirdha; south of jote lands of Rassad Mirdha; east of a public road and of jote lands of Mohur Mirdha and of the Bhagar jote lands of Saroo Patan.	*Plot I.*—Jote of Sakir Mandal and of Nihar Bibi, wife of Edu Mandal of Narigram.
73	Ditto ...	Ditto ...	Ditto ...	10 9 15	North of jote lands of Pitambar Charal, Kedar Chowdhury, Shek Karoo, and Shek Tooraj; west of jote lands of Hara Mirdha, Dohar Mirdha, Kedar Chowdhury and Manik Mirdha; south of jote lands of Sova Mirdha, Haroo Mirdha, Sakauddin Mirdha, Jamman Mirdha, Tarku Shek; east of jote lands of Ulfoo Mandal, Tarku Shek, Karoo Shek, and of Bhagar jote lands of Saroo Shek; south and east of jote lands of Waz Shek.	*Plot II.*—Do do.
74	Ditto ...	Ditto ...	Ditto ...	2 13 11	North of jote lands of Manik Mirdha; east of jote lands of Sona Mirdha and Dolal Khan; south of jote lands of Alivardy Mirdha; west of jote lands of Aidu Chowdhury.	*Plot III.*—Jote of Takai Mandal of Narigram.
75	Ditto ...	Ditto ...	Ditto ...	4 13 14	North of the chowkidari chakran lands of Tincuri Hari; east of jote lands of Sakauddin Mirdha, Hara Mirdha, Sonaulla Mirdha, and Ronva Lal Charal; south of jote lands of Sonaullah Mirdha; west of the chowkidari chakran lands of Gourub Khan, Patan and Ramdhan Bagdi.	*Plot IV.*—Jote of Sakir Mandal of Narigram.
89	Dakadda	Shyambati	Karajpur ..	5 15 13	South of the jote lands of Deb Nath Pal and Kunja Mandal; east of the lakhraj jote lands of Deb Nath Pal; north of the lakhraj jote lands and of the barren land of Deb Nath Pal; west of a public road.	Jote of Sita Nath Pal and Deb Nath Pal of Shyambati.

Burdwan Collectorate, the December 1889. KEDAR NATH DUTT, for Officiating Collector.

Statement of the Affairs of the Bank of Bengal for the week ending 7th January 1890.

LIABILITIES.

			Rs.	A.	P.
Capital paid up			2,00,00,000	0	0
Reserve Fund			58,00,000	0	0
Public Deposits at Head Office	Rs.	82,42,187 3 6	1,75,30,339	3	6
Ditto ditto at Branches ...	,,	92,88,152 0 0			
Other Deposits at Head Office and Branches			3,23,90,260	15	1
Bank Post Bills, &c.			5,00,551	3	9
Sundries			7,34,285	12	0
Rupees ...			7,69,55,437	2	4

ASSETS.

			Rs.	A.	P.
Government Securities			19,57,170	0	0
Other authorised Investments			78,72,686	0	0
Loans on Government and other authorised Securities			1,37,51,513	9	10
Accounts of credit on ditto ditto			98,79,277	6	
Bills discounted and purchased			2,42,09,322	8	
Balances with other Banks			11,30,312	12	3
Bullion			4,24,390	14	7
Dead Stock			12,29,967	3	9
Stamps			13,649	9	0
Sundries			5,72,832	13	6
			6,10,41,122	14	1
Cash and Currency Notes at Head Office ...	Rs.	61,75,902 6 10	1,59,14,314	4	3
Cash and Currency Notes at Branches	,,	97,38,411 13 5			
Rupees ...			7,69,55,437	2	4

By order of the Directors,

R. L. BIRD, Chief Acctt. W. D. CRUICKSHANK,

Rate for Demand Loans 8 per cent. Secy. and Treasurer.

BANK OF BENGAL, Percentage 31·1. (3440—1)

Calcutta, 9th January 1890.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1889.			
Dec. 21	1 Cask, T	Order ...	S. S. "City of Khios"
1890.			
Jan. 2	5 Cases, 8218 in a block, B L B outside .	Ditto ...	Ditto.
,, 2	11 Cases, Chulsa in a diamond	Ditto ...	Ditto.
,, 2	15 Cases, G H by S	Ditto ...	Ditto.
,, 2	1 Case, H M in a diamond, H H top	Ditto ...	Ditto.
,, 2	15 Packages, no mark	Ditto ...	Ditto.
,, 2	3 Bags, Y in a diamond, C R top or no mark ..	Ditto ...	Ditto.
,, 2	3 Cases, M A & Co.	Ditto ...	Ditto.
,, 2	1 Case, Revd. Robert Evans, Shangjeong, Assam ..	Ditto ...	Ditto.
2	2 Cases, K S D N in a double triangle, S K & Co. outside.	Ditto ...	Ditto.
,, 2	1 Case, L O C K E	Ditto ...	Ditto.
,, 2	2 Cases, 189 in a diamond, N P & G outside ..	Ditto ..	Ditto.
,, 2	1 Case, R in a diamond, C Y top	Ditto ...	Ditto.
,, 2	2 Bales, S D	Ditto ...	Ditto.
,, 2	4 Cases, S A T H in a diamond	Ditto	Ditto.
,, 2	1 Case, S S by 44 in a block	Ditto ...	Ditto.
,, 2	21 Packages, W L in a diamond, C below ...	Ditto ...	Ditto.
,, 2	3 Packages, Y in a triangle, C R top ...	Ditto ...	Ditto.
,, 2	4 Bundles plate iron, Chulsa in a diamond ...	Ditto ...	Ditto.
,, 2	54 Kegs, J M in a diamond	Ditto ...	Ditto.
,, 3	1 Cask, H M & Co	Ditto ...	Ditto.
,, 3	3 Bags, Titaghur	Ditto ...	Ditto.
,, 3	1 Case, B D D S in a diamond, T N top ...	Ditto ...	S. S. "Traveller."
,, 3	1 Case, D 550 in a triangle, C H L & Co. top ..	Ditto ...	Ditto.
,, 3	2 Cases, K M B D in a diamond, S K & Co. outside.	Ditto ...	Ditto.
,, 3	1 Case, L N B N in a diamond, G A & Co. outside...	Ditto ..	Ditto
,, 3	2 Cases, L O C K E	Ditto ...	Ditto.
,, 3	5 Cases, P M & S	Ditto ...	Ditto.
,, 3	5 Cases, P in a triangle, B G top	Ditto ...	Ditto.
,, 3	5 Bales, S in a diamond, L B top	Ditto ..	Ditto.
,, 3	1 Case, Mr. N. C. Jellico	Addressed ..	Ditto.
,, 3	1 Parcel, H & Co. in a diamond, G J A outside, Rangoon below.	Order ...	Ditto.
,, 3	83 Bundles hoop iron, white or no mark	Ditto ...	Ditto.
,, 3	4 Packages iron, no mark	Ditto ...	Ditto.
,, 3	7 Packages iron, C by 26 in a diamond, or no mark...	Ditto ...	Ditto.

The 11th January 1890. (3445—1) G. H. SIMMONS, Vice-Chairman.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows :—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates :—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates :—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Notice.

THE public are hereby informed that a Fair will be held at Falakata in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 23rd January 1890 (A.D.) corresponding with 11th Magh 1296 (B.S.), and will continue up to 6th February 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets, cloth of sorts, ivory, wool, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet, as also rice, paddy, jute, cotton, tobacco, mustard seed, wheat and other crops, which are grown in the Western Dooars, will be available at the Fair. Falakata is on the left or east bank of the Mujnai river, and within easy reach of Julpigoree and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 10th December 1889.

Notification

THE Zamindari Dâk Tax in the district of the 24-Pergunnahs for the year 1890-91 is fixed at the rate of eight annas per cent. per annum on the sudder jumma of estates paying a revenue amounting to Rs. 50 and above

The amount due for each estate is payable in two instalments, the first being due on the 1st June 1890, and the 2nd on the 16th December 1890.

A. FORBES, Magistrate of 24-Pergunnahs.

Notice.

WANTED an Overseer for the Dinagepore Municipality. Salary Rs. 45 and horse allowance Rs. 10 a month. Passed Overseers of the Public Works Department, with experience in municipal works, are only required to apply. Applications will be received by the undersigned up to 25th January 1890.

SITAKANT MOOKERJEE, Vice-Chairman.

Dinagepore, the 27th December 1889. (3406—3)

Notice.

WANTED a Civil Court Ameen for the district of Manbhoom on a salary of Rs. 50 per mensem.

Candidates must possess a thorough knowledge of English, Bengali, and Surveying, besides holding a diploma of having passed the junior grade Pleadership examination as required by the High Court's Circular No. 24 of November 1858.

Applications will be received up to the 10th proximo.

E. N. BAKER, Deputy Commissioner, Manbhoom.

Manbhoom, Deputy Commr.'s Office, the 23rd December 1889.

WANTED a Native Doctor, on Rs. 30 a month, for the Colgong Municipal Dispensary. Applications with copies of testimonials and diploma will be received by the undersigned up to 20th January 1890.

(3411—3) A. A. WACE, Magistrate.

Wanted

A DRAUGHTSMAN with a knowledge of surveying, who can plot from field books kept in English. Salary Rs. 40 to Rs. 60 according to qualifications. Applications in candidates' own handwriting, and copies of testimonials, to be submitted to—

Municipal Engineer, Patna.

(3419—2)

WANTED a Surveyor who understands chain and compass survey well for the District Works, Maldah, on Rs. 30 a month. A draftsman is also required for the above works on the same pay. All applications with copies of testimonials must reach the undersigned on or before the 25th January 1890.

JOGENDRO NATH GHOSE, District Engineer, Maldah.

Maldah, District Engineer's Office, the 8th January 1890.

(3443—1).

WANTED an Assessor of Income-tax for Chumparun district from 1st April 1890. Salary Rs 70 per mensem. Only those need apply who know English and have had some experience of office work.

Applications with copies of testimonials (which will not be returned) will be received by undersigned up to the 20th instant.

A. W. B. POWER, Collector of Chumparun.

Wanted

AN Assistant Khas Superintendent on a salary of Rs. 75 per mensem for Noakhally Collectorate, to be stationed at the Island of Sundeep.

Applications will be received up to 20th January 1890. A preference should be given to an English-knowing candidate who has passed any of the University examinations and possesses an experience in office routine business, and practical knowledge of survey.

MOHINEE MOHUN CHUCKERBUTTY, for Offg. Collector.

Dated the 3rd January 1890.

Wanted.

A SUB-OVERSEER for the District Board of Noakholly on a salary of Rs. 35 and horse allowance of Rs. 10 per month, to be ordinarily stationed at Sundeep. Passed Sub-Overseers of Public Works Department, with experience of road work, shall have preference Knowledge of surveying and levelling indispensable. Applications will be received by the undersigned up to the 30th January 1890.

BINODE BIHAREE PAL, District Engineer, Noakholly.

Noakholly, the 11th January 1890. (3446—2)

JOGENDRA NATH SEN, M. A., B. L., intends to apply for enrolment as a Vakil of the High Court.

(3444-4.)

In the Court of the Subordinate Judge of Dinagepore.

EXECUTION CASE No. 10 OF 1889.

Nanda Dulall Dhar and Kishori Lall Dhar, minors, by their mother Krishna Kamini Choudharani, decree-holders, *versus* Tripurah Sundari Debya, judgment-debtor.

TO be sold pursuant to a decree and order, dated the 13th March 1889, in a suit No. 1 of 1889 of this Court, by the Nazir of the Dinagepore Judge's Court at the Court-house, on Monday, the 3rd February 1890, the undermentioned property belonging to the above judgment-debtor:—

Lot No 1.—Two annas seventeen gundas two cowries share of the above judgment-debtor in mehal Joydebpore, pergunnah Bazitpore borne in the revenue roll of the Collectorate of Dinagepore, in towji No. 879, the sudder jumma of which is Rs. 725-13-2, and that of the entire mehal Rs. 4,039-7-6.

HOROGOBIND MOOKERJEE, Offg. Sub-Judge.

Sub-Judge's Office, Dinagepore, the 8th January 1890.

(3442—1)

In the Court of the District Judge at Noakholly.

EXECUTION CASE No. 62 OF 1889.

Kailas Chandra Sen, decree-holder, *versus* Naba Kumar Sen, judgment-debtor.

THE undermentioned property of the above judgment-debtor will be put up to sale to the highest bidder on the 19th February 1890, at 12 A. M., by the Nazir of this Court for the realization of Rs. 1,607-6:—

Mortgage property.

Four gundas share of pergunnah Jugidia, bearing the rent roll No. 11 in the Noakholly Collectorate, the annual Government revenue of the sixteen annas share being Rs. 24,762-1-8, and the revenue of defendant's share Rs. 309-12-5 & 1 kr. The villages Sripaddy and others appertain to station Begumgunge; villages, Shivpur, Berahimpur, Koralia, Talikhila, Shirajpur, Char Hazaree, Char Parbatty, Char Kakra to station Bamni; and the villages Sharailkandi, Sujapur, Sulakhali, Tulatali, Shatbaria, Char Chandia, Char Darbesh, Char Ganesh, &c., to station Feni, in the same district, in the above zemindari, pergunnah Jugidia.

C. P. CASPERSZ, Offg. District Judge.

Dated, the 6th January 1890.

(3441—1)

In the Court of the Subordinate Judge of Midnapur.

EXECUTION CASE No. 154 OF 1889.

Kartik Chandra Mitra, decree-holder, *versus* Sridhar Charan Nandi, judgment-debtor.

THE undermentioned property will be sold by public auction at the Court-house of the District Judge of Midnapur on Wednesday, the 15th January 1890, at 12 o'clock, in execution of the decree passed by the Subordinate Judge of Midnapur for the realization of Rs. 11,529-2-9 obtained by a mortgage-decree due from the debtor to the decree-holder :—

Schedule of Property to be sold.

Lot I.—Six annas share of mehal Khirai, with its mouzas, within the police-station of Shobong and sub-registry office of Pingla, pergunnah Moyno, bearing towji No 957, present towji No. 889; Government revenue payable is Rs. 5,952-15- 4, and the Government revenue of which six annas is Rs. 2,233-15.

This property will be sold under the encumbrance of Rs. 10,300 due to Baboo Bhuban Chandra Banerjea due on a prior mortgage.

DWARKANATH BHUTTACHARJEA, Subordinate Judge.

(3447—1)

Uncovenanted Service Family Pension Fund.

NOTICE.

THE Fifty-second Annual General Meeting of Subscribers of the above Institution will be held in the DALHOUSIE INSTITUTE, on Wednesday, the 29th January 1890, at 4 P.M., to receive the report of the Directors and to consider such matters as may then be submitted.

By order of the Directors,
W. H. RYLAND, Secretary.

Calcutta, the 31st December 1889. (3415—3)

Dinagepore District Board.

SIX PER CENT. LOAN.

THE Dinagepore District Board have resolved, with the permission of the Lieutenant-Governor of Bengal, to borrow Rs. 10,000 (out of two lakhs of rupees) during the current financial year (1889-90) for construction of permanent bridges in their district roads on security of the District Fund formed under Act III (B.C.) of 1885, detailed accounts of which for last two years were published in the *Calcutta Gazette*, Part IB, page 164, dated 7th August 1889.

2. Tenders for the whole or any part of the said amount of Rs. 10,000 will be received by the Vice-Chairman of the Board from this date to Friday, the 31st January 1890. Tenders must be in sums of Rs. 500) or multiples of Rs 500.

3. Each tender must be addressed in the form annexed herewith to the Vice-Chairman, and enclosed in a closed and sealed cover superscribed "Tender for Loan." If the tenderer is not resident in India, he must name an agent resident in India, to whom a letter of allotment may be issued if any part of the loan is allotted to such tenderer.

4. Each tender must be accompanied by deposit money, at a rate of 5 per cent. on the amount tendered, to be sent by postal money-order, and the money-order receipt must be filed with the tender. Deposits will, in the case of accepted tenders, be credited proportionally in part payment of the allotment certificates issued in respect of the tender. If any allotment certificate is not fully taken up, the deposit will be forfeited.

5. The rate at which a tender is made must not contain a fraction of an anna: if a rate containing a fraction of an anna is inserted in any tender, such fraction will be struck out, and the tender treated as if the rate did not contain such fraction of an anna.

6. The rate at which each tender is made must be specified in rupees, or rupees and annas. A tender in which no rate is thus specified, but a subscription is offered in some other terms, *e.g.*, at the recorded minimum, or at some specified percentage in addition to the recorded minimum, or at the average of the accepted tenders, will be rejected as null and void.

7. Tenders will be opened publicly by the Vice-Chairman at the Dinagepore Magistracy on Saturday, the 1st February next, at noon (Calcutta time).

8. Tenders at the minimum rate will be accepted in the order of the rates tendered, beginning with the highest rate. The amount allotted at the lowest rate at which tenders are accepted will be divided amongst those who have tendered at this rate in proportion, as nearly as may be found convenient, to the amounts of their tenders, provided that no allotment will be issued if the amount distributable on any tender is less than Rs. 500.

9. To each tenderer (or to his agent) whose tender is accepted in whole or in part, such number of allotment certificates as may be necessary to make up the aggregate amount allotted to him will be issued by the Vice-Chairman as soon as possible after the tenders have been accepted, and a list of the names of those to whom such allotment certificates are issued will be posted for general information at the District Board's Office.

10. Payment of any allotment certificate is to be made in credit of the District Fund at the Dinagepore Treasury.

Form of Tender

I, A B., hereby tender for Rs. (Rs. ,) of the six per cent. loan advertised in the *Calcutta Gazette*, dated , and agree to pay for the same subject to the condition mentioned in the advertisement, at the rate of Rs. As. for every hundred rupees allotted to me.

I enclose a money-order receipt for deposit money for Rs. sent to the address of the Vice-Chairman of the Dinagepore District Board.

Any allotment made to me may be communicated to at

NOTE.—A separate tender must be made at each rate tendered. The rate tendered should be the whole amount per centum, not the premium or discount: thus "one hundred and two" or "one hundred," or "ninety-nine," not "two per cent. premium" or "par" or "one per cent. discount."

(3413—3) C. R. MARINDIN, Chairman.

Notice.

IT is hereby notified for general information that the District Board of Tipperah, in compliance with the wishes of Government, have established two scholarships at Rs. 15 each, tenable for one year at present, at the Sibpore Engineering College. Those willing to take up any particular branch of study, and attend the workshops attached to the College, are requested to send in their applications on or before the 20th March 1890, to enable the undersigned to award the scholarships on the 1st April 1890. Successful candidates will have to contract for service under the District Board.

H. M. WEATHERALL, District Board, Tipperah.

Notice.

MONGHYR DISTRICT BOARD.

IT is hereby notified for general information that, under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Monghyr, at a Special Meeting held on the 4th January 1890, have determined to levy the road cess for the year 1890-91 at the maximum rate, viz., six pies per rupee on the annual value of the land.

C. MURRAY, Major-General,
Vice-Chairman, District Board.

Monghyr, the 6th January 1890.

Notice.

THE District Board of Bankoora, at their meeting held on the 31st December 1889, resolved that the road cess be levied at the maximum rate in this district during the ensuing financial year 1890-91.

KULODA PRASAD MUKHERJYI, Vice-Chairman in charge, for Chairman on tour.

The 7th January 1890.

Notification.

A MONUMENT in the Faridpur cemetery, to a child of the name of Burt, needs repair. The friends of the deceased are therefore requested to inform the undersigned if they are willing to repair it.

PURNO CHANDRA RAI, Dy. Magistrate in charge, for Magistrate.

FARIDPUR MAGISTRATE'S OFFICE, the 3rd January 1890.

Notification

TO be sold by the Registrar of the High Court, Original Side, in his sale-room in the Court-house on the fifteenth day of February next, at 12 o'clock noon, pursuant to a decree and an order of Court made in suit No. 359 of 1881, wherein Nathmull Golloccha is plaintiff, and Meer Syed Jan and others are defendants, dated respectively the 22nd August 1883 and 30th November 1889, the following properties :—

Lot I.—All that two undivided ninth share of the infant defendants Meer Syed Jan, Shurreefoonessa Begum, and Kameeroonessa Begum, of and in the house and premises situated in Ruttoo Sircar's Lane in the Town of Calcutta, and numbered 2, 3, and 4, together with the like share in the land on which the same is standing, now or lately butted and bounded as follows: — On the north by the tenanted land of Prankissen Sen; on the east by the tenanted land of Brojonath Kansaree; on the south by the house No. 1, now or lately belonging to Brojonath Kansaree; and on the west Ruttoo Sircar's Lane.

Lot II.—All that two undivided ninth share of the abovenamed infant defendants, of and in all the putnee right and interest in talook Choorley Dhakpara, talook Dalagow, talook Khana Abad, talook Suktee Moorareepore, asli and dakhil', zillah Rangapanee, pergunnah Futtehpore Shinghea, thana Purneah, towzi No. 8, Collectorate of zillah Purneah, sub-registry Purneah, including the like share of and in all Talas, asli and dakhili.

The conditions of sale and particulars of title may be seen in the office of the Registrar of the High Court, Original Jurisdiction, or at the office of Mr. H. C. Chick, Attorney for the Plaintiffs, on any day before the sale and will be produced at the sale.

R. BELCHAMBERS, Registrar.

H. C. CHICK, Attorney for the Plaintiffs

(3439—2)

Notification.

UNDER Rule 8 of the Revised Rules under the Chota Nagpore Encumbered Estates Act VI of 1876, as amended by Act V of 1884, published at pages 138 and 139, Part I of the *Calcutta Gazette* of the 25th February 1885, it is hereby notified that the undermentioned immoveable property which was brought under the operation of Act VI of 1876, under vesting order published at page 1420, Part II of the *Calcutta Gazette* of the 20th November 1878, has been restored to the possession and enjoyment of its owner, with effect from the 10th November 1889, under the provisions of section 12 of Act VI of 1876, as amended by section 6 of Act V of 1884—

Name of property.	Name of holder.
Mahta Estate in Manbhoom.	Baboo Bramha Narain Singh.

RAI CHURN GHOSH, Personal Assistant to Commr., for Commr.

Chota Nagpore Commr.'s Office, the 7th January 1890.

MR. S. S. COOPERS is authorized to sign our firm per procuration from this date.

CROFT, WELLS & Co.

1, Clive Row, 1st January 1890. (3418—3)

WE have this day admitted Mr. David Hynd as a partner in our firms.

KOCH & PERMAN.

SIMON KOCH & Co.

Calcutta, the 1st January 1890. (3417—2)

Lost.

INTEREST Warrant No. 225465, dated 6th November 1889, for Rs. 200, issued in satisfaction of 49½ years' interest on Government Promissory Notes Nos. 187095, 188231, B. 140933, 251834, 223046, 228904, 232405, 238124 and 194586, aggregating Rs. 10,000 of the 4 per cent. loan of 1865 in the name of H. Hastings.

GILLANDERS, ARBUTHNOT & Co., Calcutta.

January 14th, 1890. (3450—3)

Lost.

INTEREST Warrants Nos. 229507 and 229506, dated 4th January 1890, for Rs 20, issued in satisfaction of 49½ years' interest on Government Promissory Notes, Nos. 238858 and 188252, aggregating Rs. 1,000 of the 4 per cent. loan of 1865 in the names of Russick Lal Dutt and Kheero Monee Dassee respectively.

(3449—3)

Notice.

MIRZAPORE STONE AND TRADING COMPANY.

WE have this day made over the Agency of the above Company to Messrs. Atkinson Brothers, and have ceased to be Partners in the Company by mutual consent; our liability in connexion with the Company ceases from this date. All debts due to the Company should be paid to the Managers Baboo Baneepershad and Mr. E. J. Lacey, Mirzapore, who will also meet all the Company's liabilities.

LYALL, MARSHALL AND COMPANY.

Calcutta, 15th January 1890.

Notice.

MIRZAPORE STONE AND TRADING COMPANY.

MESSRS. Atkinson Brothers, Calcutta, have been appointed Agents of the Company from this date, and are hereby authorized to collect its outstandings, and Messrs. Lyall, Marshall and Company have ceased to be Partners in the Company by mutual consent.

Messrs. Lyall, Marshall and Company's liability in connexion with the Company ceases from this date, and all its liabilities will be met by the undersigned.

BANEEPERSHAD,
E. J. LACEY,

Proprietors, Mirzapore Stone and Trading Company.

Mirzapore, 15th January 1890.

Notice.

MIRZAPORE STONE AND TRADING COMPANY.

WE the undersigned have this day taken over the Managing Agency of the above Company from Messrs. Lyall, Marshall and Company.

All communications should in future be addressed to us or to Manager, M. S. and Trading Company, Mirzapore.

ATKINSON BROTHERS.

Calcutta, 15th January 1890. (3448—1)

APPLICATIONS are invited for the post of Serishtadar of this Office, which will probably be vacant on 1st February.

The pay is Rs. 120 to Rs. 200, rising by biennial increments. A knowledge of the Kaithi and Urdu character and of English is essential, and no one need apply who has not had at least 15 years' experience of work in a district office

BEPIN BEHARY MOOKERJI, for Collector.

Bhagulpore Collectorate, the 11th January 1890.

Commissioners for making Improvements in the Port of Calcutta.

AS required by section 53, Act V (B.C.) of 1870, notice is hereby given that the accounts of the Commissioners for making Improvements in the Port of Calcutta, for the half-year ending 30th September 1889, will be audited at the Office of the said Commissioners on Monday, the 27th January 1890.

G. H. SIMMONS, Vice-Chairman.

Port Commissioners' Office, the 14th January 1890.

(3451—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

IN the matter of HURRY CHURN PAUL and others, insolvents.

On Monday, the 16th day of December last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the first day of February next, and that the said insolvents do then attend to be examined before the said Court.

Insolvents in person. (3435—2)

IN the matter of ARTHUR MILSON HOUGHTON, an insolvent.

On Saturday, the 21st day of December last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the first day of February next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3436—2)

Chief Clerk's Office, the 7th January 1890.

In the matter of GOPEEKISTO SEN, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 27th day of January instant, at the hour of half-past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

M. M. Chatterjee. (3452—1)

Chief Clerk's Office, the 13th January 1890.

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	21st Jan. ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	20th „ ...	Ditto.
Mauritius, Mahé (Seychelles), Mayotte, Nossi Be and Réunion.	21st „ ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	27th „ ...	Ditto.
Australia, New Zealand, and Tasmania.	27th „ ...	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	23rd „ ...	Per French steamer *Niemen*.
Straits, China and Japan ...	23rd „ ...	Per str. *Japan*
Rangoon and Moulmein ...	15th „ ...	Ditto *Commilla*.
Ditto ditto ...	17th „ ...	Ditto *Patiala*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	16th „ ...	Ditto *Euphrates*.
Port Blair	16th „ ...	Ditto *Peshwa*.
Madras, Colombo, Straits and Hongkong.	17th „ ...	Ditto *Niobe*.
Colombo	22nd „ ...	Per P. & O. steamer *Kaedies*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 14th January 1890.

Unclaimed Letters held in the Calcutta General Post Office on 14th January 1890.

Aitken, D.
Frank, G.
Hanna & Co.
Harding, C.
Procton, T. E.
Pulitzer, J.
Self, F.
Temple, F.

Letters marked Care of "Post Office."

Atkinson, F. S.
Barker, F. W.
Bates, Miss E. K.
Bather, H. R.
Baxter, Mrs.
Behan, J. L.
Bedford, James.
Belitski, R.
Berkeley, C. M.
Boland, J.
Bolton, J. M. L.
Brownlow, Miss.
Brown, W.
Burrows, C. J.
Carrapaett, Mr.
Charles, R.
Chatterton, J.
Comar, Mrs. A.
Cooper, H. J.
Cooper, W.
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Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 10th January 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	1 6	At mouth entrance practically closed.
	Thence to Nurpur	1 3	Serpore.
	From Nurpur to Jungipur ...	2 3	Bangabari.
	,, Jungipur to Berhampur	1 3	Patanpara.
	,, Berhampur to Outwa ...	2 3	Harinathpore.
	,, Outwa to Nuddea ...	2 6	Dadpore.
Bhyrub-Jelinghi.	Entrance from Ganges ...	8 0	
	Thence to Akriganj	6 6	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 0	Junction.
	Thence to Patkabari	6 0	Patkabari.
	Patkabari to Nuddea	4 0	Punditpore.
Matabanga.	Entrance from Ganges ...	2 6	
	Thence to Chnypara	1 0	Sircarpara.
	From Chnypara to Shikarpur	1 0	Pragpore.
	,, Shikarpur to Boalia ...	1 3	Shampore.
	,, Boalia to Chuadanga ...	2 9	Sialmari.
	,, Chuadanga to Kissenganj and Hanskhali ...	2 9	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A.M.	Feet.	Feet.	
Ganges ...	Sahebganj ...	11-1-90	6	0·16	67·84	Below zero.
	Rampur Boalia	11-1-90	12	2·31	44·31	
	Entrance of Bhagirati ...	11-1-90	7	3·20	43·51	
	Entrance of Bhyrub-Jelinghi ..	11-1-90	...	7·84	46·20	
	Entrance of Matabanga ...	11-1-90	...	3·04	.....	
Bhagirati	Berhampur ...	12 1-90	12	3·16	36 95	
Jelinghi	Kishnaghur ...	10-1-90	..	4·75	13·64	
	Surupganj ...	11-1-90	6	3·88	8·18	
Matabanga	Hanskhali ...	10-1-90	...	3·50	14·35	

C. E. LIVESAY, C.E.,

Exe. Engr., Nuddea Rivers Division.

Berhampore, the 13th January 1890.

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Ditto	ditto	1872 ...	,,	3 0	,,
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Ditto	ditto	1874 ...	,,	3 0	,,
Administration Report of		1870-71 ...	,,	0 4	,,
Ditto	ditto	1871-72 ...	,,	0 4	,,
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CALCUTTA, the 26th August 1875.

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ALEX. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Office, Bengal, the 17th March 1886.

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The 24th February 1886.

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ROUTE TO BE TAKEN BY EMIGRANTS DESPATCHED DIRECT FROM THE RECRUITING DISTRICTS TO DHUBRI.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Calcutta, the 11th January, 1890.

RESOLUTION.

READ—

A letter No. 1641, dated the 19th December 1889, from the Superintendent of Emigration, Calcutta, and previous correspondence regarding the medical inspection of coolie emigrants to Assam at Naihati.

BY the notification, dated the 16th September, 1889, which was published at page 782 of Part I of the *Calcutta Gazette* of the 18th idem, the Lieutenant-Governor, in exercise of the power vested in him by section 3 of Act I of 1889, declared by an amendment of Rule 6 of the rules under that Act that the Hooghly-Naihati route should be adopted for emigrants to Assam. This order was intended to apply only to the emigrants taken from the recruiting districts to Dhubri and crossing the Hooghly above Calcutta, who, in fact, constitute the majority, the object being to exclude the alternative crossings *viâ* Mugra and Kanchrapara. It was not intended to interfere in any way with emigration *viâ* Calcutta and Goalundo. As the rule has been differently interpreted, this explanation is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

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Embankments or bunds ...	8	2,578	0	0	Miscellaneous ...	39	1,681	0	0
					Petty works		74,749	8	0

2. The following statement shows the number of works costing more than Rs. 200 each, which were constructed during the past year, and the amounts contributed, including donations for petty works, as compared with the figures for the two previous years :—

Year.	Number of works costing between Rs. 200 and Rs. 500 each.	Number of works costing more than Rs. 500 each.	Total number of works costing Rs. 200 and upwards each.	Total expenditure on works costing Rs. 200 and upwards each. Rs.	A.	P.	Add cost of petty works under Rs. 200. Rs.	A.	P.	Total contribution. Rs.	A.	P.
1886	381	122	503	2,65,833	10	0	60,499	9	6	3,26,333	3	9
1887	312	88	400	2,05,688	2	3	50,892	1	0	2,56,580	3	3
1888	331	132	463	3,10,492	9	6	74,749	8	0	3,85,242	1	0

3. The subjoined table exhibits the number of works costing Rs. 200 and over each, constructed in the several districts, and the amounts contributed for their construction :—

Name of district.	Number of works.	Total cost. Rs.	A.	P.	Name of district.	Number of works.	Total cost. Rs.	A.	P.
Burdwan ...	6	7,700	0	0	Noakhally ...	1	1,000	0	0
Bankoora ...	4	3,600	0	0	Chittagong ...	3	2,206	0	0
Beerbhoom ...	...	.....			Chittagong Hill Tracts ...	...	.....		
Midnapore ...	9	3,525	0	0	Patna ...	3	25,200	0	0
Hooghly ...	3	4,400	0	0	Gya .	14	4,038	0	0
Howrah ...	3	3,200	0	0	Shahabad ...	16	4,045	0	0
24-Pergunnahs ...	9	49,513	10	6	Durbhunga ...	38	34,135	0	0
Khoolna ...	20	7,175	0	0	Mozufferpore ...	18	12,551	0	0
Nuddea ...	13	3,830	0	0	Sarun ...	13	4,900	0	0
Jessore ...	24	11,675	0	0	Chumparun ...	25	6,775	0	0
Moorshedabad ...	3	8,824	14	6	Monghyr ...	35	9,400	0	0
Dinagepore ...	13	5,400	0	0	Bhagulpore ...	21	13,925	0	0
Rajshahye ...	18	14,291	0	0	Purneah ...	5	2,275	0	0
Rungpore ...	10	5,525	0	0	Maldah ...	3	7,200	0	0
Bogra ...	8	7,225	0	0	Sonthal Pergunnahs	40	2,760	0	0
Pubna ...	6	13,950	0	0	Cuttack ...	1	600	0	0
Darjeeling ...	...	.....			Balasore ...	11	5,145	0	0
Julpigoree ...	7	2,275	0	0	Pooree ...	3	1,420	0	0
Dacca ...	2	800	0	0	Hazaribagh ...	1	200	0	0
Furreedpore ...	13	9,700	0	0	Lohardugga ...	...	.. ...		
Backergunge ...	5	2,100	0	0	Manbhoom ...	3	1,200	0	0
Mymensingh ...	21	13,818	0	0	Singbhoom ...	4	940	0	0
Tipperah ...	8	2,050	0	0					

4. Taking them according to the classification adopted in paragraph 1, the following works are specially noted :—

Public buildings.—Of the sum of Rs. 58,050 contributed under this head, the Marwari community of Ranigunj contributed Rs. 4,500 for the construction of a serai for travellers in Mahalla Hatipore, in the town of Ranigunj;

Dr. Kalipodo Gupta, F.R.C.S., contributed Rs. 2,750 for a charitable dispensary, and Baboo Ram Gopal Rakhit Rs. 40,000 for a similar work at Khutura; Rai Bahadoor Boodhoosingh Dodhooria and Rai Bahadoor Bishen Chand Dodhooria gave Rs. 6,000 for an alms-house at Azimgunge; and Baboo Sarat Chandra Rai Chowdhury contributed Rs. 2,500 for a school building at Singhya.

Roads.—The contributions for roads were very meagre, the total amounting only to Rs. 1,450.

Bridges.—The sum of Rs. 12,653-10-6 contributed for bridges includes Rs. 1,803-10-6 paid by Baboo Kali Nath Banerjee for a masonry bridge over the Dhulchita khall; Rs. 2,500 contributed by Alladi Bibi for a bridge on the river Harihar; Rs. 1,000 given by Baboo Bhichhuk Nath Pande for a masonry bridge at Baigam; and Rs. 4,000 by Baboo Sarat Chandra Rai Chowdhury for a masonry bridge at Mobarakpore.

Embankments or Bunds—Rs. 2,578 were paid under this head: there were no contributions of large amount.

Ghâts.—Of the sum of Rs. 4,550 contributed, Baboo Kristo Chunder Banerjee gave Rs 1,300, and Dr. Kalipodo Gupta, F.R.C.S., Rs. 2,250.

Tanks.—Rs. 2,09,193-14-6 were spent in constructing and re-excavating 282 tanks. Baboo Ram Chand Shai of Khudkuri, thana Khandghose, contributed Rs. 1,250; Giridhari Das Mohanta Rs. 1,600; Baboo Dino Nath Ray Rs. 1,200; Baboo Kenaram Pall of Dhitpore Rs. 1,000; Madhab Chandra Giri Mohanta of Tarakessur Rs. 3,000; Baboo Rajchander Kolay of Barbamoongar, zemindar of the village in Ampta, Rs. 2,000; Baboo Premchand Singh of Mooraribar in Bagnan Rs. 1,000; the Nawab Bahadoor of Moorshedabad Rs. 2,624-14-6; Kumar Jogendro Nath Roy Rs. 3,000; Baboo Rokha Kar Moitra Rs. 1,000; Baboo Madhub Mondal Rs. 1,000; Mr. Lang for Robert Watson & Co. Rs. 2,000; Baboo Pamos Pramanick Rs 1,000; Baboo Niwamut Patwari Rs. 1,200; Baboo Govinda Chandra Shaha Rs. 1,200; Baboo Boraulla Pramanik Rs. 1,000; Baboo Radha Mohun Chowdhuree Rs 1,000; Baboo Raj Mohun Shaha Rs. 2,500; Baboo Lukhi Kanta Pramanik Rs. 10,000; Baboo Mohur Molla Rs. 1,000; Maharajah Sir Jotendra Mohan Tagore, K.C.S.I., Rs. 2,000; Syjuddin Ahmed Rs. 2,000; Baboo Rajoni Kantha Ghatak Rs. 1,000; Bisvasvari Devi Chowdhrani Rs. 4,500; Baboo Petamber Shaha Rs. 1,000; Baboo Susti Charan Mazumdar Rs. 1,200; Moulvie Ali Ahmad for Bibi Sogra, widow of Moulvie Abdul Aziz, Rs. 25,000; Mohunt Narsing Doss Rs. 2,000; Chandi Baboo Rs. 2,000; Shaik Isuf Rs. 1,000; Baboo Digamber Sing Rs. 1,000; Baboo Jalim Monder Rs. 1,000; Baboo Panup Lal Sahu Rs. 1,000; Baboo Deonath Jha Rs. 1,000; Baboo Dooga Chowdhory Rs. 1,000; Baboo Mongal Gowala Rs. 1,500; Baboo Bacha Thakur Rs. 1,800; Baboo Gunga Pershad Rs. 1,000; Baboo Ranga Jha Rs. 1,035; Dodhrain Ojhain Rs. 1,000; Baboo Jungli Jha Rs. 1,500; Baboo Kanaia Pandey Rs. 2,500; Baboo Sohar Barar 1,001; Baboo Ram Charan Raut Rs. 1,000; Baboo Mahadeb Raut Rs. 1,000; Baboo Nathu Sahu Teli Rs. 1,000; Baboo Imrit Shah Rs. 2,000; Baboo Fajdar Sing Rs. 1,000; Baboo Krishna Dhan Das Rs. 1,000; Mussamat Kapurbati Kussari Rs. 1,300; and Baboo Apatti Dibba of Kapasirta, pergunnah Mongla in Kanthi, Rs. 1,070.

Wells—Under this head Rs. 30,336 were contributed, of which Baboo Gobinda Chandra Roy gave Rs. 1,000; Shaikh Faiz Ally Rs. 1,000; and Baboo Nandu Lal Rs. 2,000.

Miscellaneous.—The sum of Rs. 1,681 shown against this head is composed of small amounts.

RESOLUTION.—The Lieutenant-Governor notices with pleasure that the contributions for works of public utility during the year under review compare favourably with those of the previous two years. His Honour hopes to see further progress in the same direction, and he trusts that those who are willing to contribute money for this purpose will exercise a careful judgment in selecting such works as are calculated to enhance the material prosperity of the community. The Lieutenant-Governor desires to thank those who have contributed in the past year for their public spirit and liberality.

Letters of acknowledgment will be forwarded by the Government to those who have constructed important works. Those who have constructed works

costing Rs. 500 and under will, as usual, receive an acknowledgment from the Commissioner or the Magistrate of the Division.

ORDER.—Ordered that a copy of this Resolution, and of the statement, be forwarded to the Board of Revenue, Lower Provinces, and to all Commissioners of Divisions; to the Commissioner of Chota Nagpore, and to all Superintending Engineers of Public Works Circles in Bengal, for information.

Ordered also, that a copy of this Resolution, and of the statement, be forwarded to the Revenue and Judicial Departments of this Government for information.

Ordered also, that this Resolution and the statement be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

E. J. MARTIN,

Secretary to the Government of Bengal,

P. W. Dept.

Statement of works of public utility constructed by private individuals during the year 1888.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of Division
					Rs. A. P.	Rs. A. P.	Rs. A. P.
		Baboo Siva Das, Muhuri of Kona, thana Cutwa.	Repairs to a road ..	Kona, thana Cutwa	400 0 0		
		Baboo Ram Chand Shai of Khudkuri, thana Khandaghose.	Re-excavation of a tank.	Khudkuri, thana Khandghose.	1,250 0 0		
		Jahiruddhi Sheikh, of Chukdighi, thana Jamalpore.	Excavation of a tank	Chukdighi, thana Jamalpore...	900 0 0		
	Burdwan ...	Baboo Nobokrishore Mandal, of Palashan, thana Satgachia	Ditto	Palashan, thana Satgachia	250 0 0		
		Baboo Gopal Chandra Ghose, of Beerpoor, thana Burdwan.	Ditto . . .	Beerpoor, thana Burdwan ..	400 0 0		
		Marwari community of Raniguni, thana Raniguni.	Construction of a serai for travellers.	Mahalia Hatipore, in the town of Raniguni, thana Raniguni.	4,500 0 0		
		Works costing less than Rs. 200 each	.....	.....	140 0 0	7,840 0 0	
		Giridhari Das Mohanta	A tank	On the road between Indas and Katulpore police-stations.	1,600 0 0		
	Bankoorah ..	Baboo Gora Chand Banerjee ...	Do.	Sonamukhi	500 0 0		
		,, Dino Nath Ray .	Do.	Telesahar	1,200 0 0		
		,, Gunga Narain Duari	Do.	Kusadip	300 0 0	3,600 0 0	
	Beerbhoom .	Nil	.....	.....	...	.....	
		Sreemati Syama Sundary Debya, of Shamchandpore.	A well	Shamchandpore, outpost Sirsa	200 0 0		
		Baboo Kenaram Pall, of Dhitpore ...	Re-excavation of a tank.	Benapura, outpost Benapura	1,000 0 0		
		Baboo Dwarka Nath Chowdhury, of Arasini	Ditto	Arasini, outpost Benapura ...	400 0 0		
Burdwan		Baboo Bodya Nath Jana, of Katanala bazar.	Ditto ...	Dhondighi, police-station Contai.	200 0 0		
		Baboo Lakhan Pandah, of Bhirbaranga	A tank	Aklamapore, police-station Raghunathpore.	200 0 0		
	Midnapore ...	Baboo Umesh Chandra Roy, Doctor of Pekalia.	Re-excavation of a tank.	Basdaha, in the municipality of Chandrakona	800 0 0		
		Sheik Meher, of Misiara	A tank	Misiara, police-station Panskura.	200 0 0		
		Baboo Madhu Sudan Panigrahi, of Panskura.	Do.	Panskura, police-station Panskura.	300 0 0		
		Baboo Judhishter Saw of Bheturia ...	Do.	Bheturiah, police-station Nandigram.	225 0 0		
		Works costing less than Rs. 200 each	.....	.....	600 0 0	4,125 0 0	
		Baboo Peary Lall Chatterjee, of Talbona, in Dhaniakhally thana.	A tank	Talbona	700 0 0		
	Hooghly ...	Madhab Chandra Giri, Mohanta of Tarakessur.	Do.	Tarakessur	3,000 0 0		
		Baboo Gopal Chandra Benia, of Bansberia.	Constructing a masonry ghat on the river Hooghly.	Bansberia	700 0 0		
						4,400 0 0	
		Ranee Durga Sundari of Andool ..	A thatched school-house (*a*).	Near Rajbati in Andool, Sankrail.	200 0 0		
	Howrah .	Baboo Rajchander Kolay, of Barbamoongar, zemindar of the village in Ampta.	A tank	Barbamoongar in Ampta .	2,000 0 0		
		Baboo Premchand Singh, of Mooraribar in Bagnan.	Do.	On the side of the public road in village Mooraribar.	1,000 0 0		
						3,200 0 0	
				Total of Burdwan Division	.....	... ..	23,165 0 0
		Kangali Mundal	Tank	Mullikapore	350 0 0		
		Ditto	Masonry musjid ...	Ditto	400 0 0		
		Kristo Chunder Banerjee	Masonry ghat on the river side.	Halishahar, Kalikatalla bazar	1,300 0 0		
		Dr. Kalipodo Gupta, F.R.C.S.	Ditto ditto ...	Halishahar, Boonaghat ...	2,250 0 0		
		Ditto ditto	Charitable dispensary.		2,750 0 0		
	24-Pergannahs	Ram Gopal Rakhit	Ditto ditto ..	Khutura	40,000 0 0		
		Kali Nath Banerjee	Masonry bridge over the Dhulchita khal.	Mundirghata, Dhulchita ...	1,808 10 6		
		Mohendra Nath Patra of Belpukar, police-station Kulpi.	New tank and re-excavation of an old tank	Sangore mellah ground ...	660 0 0		
		Works costing less than Rs. 200 each	.....	.....	125 0 0	49,638 10 6	
		Kasem Mundal	Tank	Judpur	200 0 0		
		Barada Kanta Sircar	Do.	Kumra	200 0 0		
		Mathura Nath Chatterjee	Do.	Rajpara	250 0 0		
		Digambar Dutta	Do.	Gopalpore	300 0 0		
		Ananda Chandra Ghosh	Do.	Sherapore	500 0 0		
		Ram Taran Ghosh	Do.	Haridhaly	300 0 0		
		Shampati Churn Dass	Do.	Gopalpore	250 0 0		
		Amar Chand Ghosh	Do.	Sholina	500 0 0		
		Poreshulla Sheikh	Road	Kathuly	200 0 0		
		Nibaran Chandra Basu	Tank	Monbhog	500 0 0		
Presidency.	Khoolna ...	Poresh Nath Chatterjee	Do.	Baromonbhog	550 0 0		
		Mohim Chandra Banerjee	Do.	Bahudia	470 0 0		
		Bhola Nath Ghosh	Do.	Sadenohia	300 0 0		
		Shodanally Shaha	Do.	Satinigram	205 0 0		
		Sobhani Karigar	Do.	Ditto	350 0 0		
		Goberdhan Mundal	Do.	Gopinathpur	300 0 0		
		Kala Chand Karigar	Do.	Tadra	250 0 0		
		Kurmatullah Sheikh	Do.	Lapsa	350 0 0		
		Budhu Bhusan Bhanjo	Do.	Nalta	700 0 0		
		Rai Churn Karmakar ...	Do.	Do.	500 0 0		
		Works costing less than Rs. 200 each	.....	.....	275 0 0	7,480 0 0	
		Bhadu Mundal	Tank	Narapalpara	325 0 0		
		Durga Churn Sen	Do.	Krishtapore	300 0 0		
		Shya Ram Biswas	Do.	Bejpara	300 0 0		
		Srimanto Ghosh	Do.	Ghutwgatchi	200 0 0		
		Narayan Mundal	Re-excavation of a tank.	Sutra	200 0 0		
		Nimony Mandal	Ditto	Kumarpoor	300 0 0		
		Kunye Mundal	Ditto	Kasumpoor	200 0 0		
	Nuddea ...	Umesh Mundal	Ditto ..	Gushtea	400 0 0		
		Hem Chand Mundal	Ditto	Sarmastpoor	300 0 0		
		Rashik Lall Pal and Huri Dass Pal ..	Ditto	Ghoshpara .	400 0 0		
		Villagers of Nabla	Ditto	Nabla	300 0 0		
		Rameswar Karmakar	Tank	Sholataka	280 0 0		
		Madhub Chundra Karmakar	Do.	Do.	225 0 0		
		Works costing less than Rs. 200 each..	... .	.....	197 0 0	4,037 0 0	

(*a*) This is a free school. The sum of Rs. 335, including the pay of teachers, &c., is the monthly expenditure which is also paid by the Ranee.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of Division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
		Gopal Chandra Pal	Tank	Gaidgachi	300 0 0		
		Khetra Mohun Mitra	Do.	Ditto	400 0 0		
		Moti Lall Kundu	Do.	Rupdia	400 0 0		
		Khoda Baksa Bamdar	Do.	Moorari	400 0 0		
		Wahed Coachman	Do.	Harbilla	500 0 0		
		Monai Sirdar	Do.	Chanlia	300 0 0		
		Kushai Mulla	Do.	Narendrapore	300 0 0		
		Bhalai Dai	Do.	Manaharpore	350 0 0		
		Manullah Biswas	Do.	Mitra Singa	400 0 0		
		Kartik Dass	Do.	Baladanga	400 0 0		
		Miru Biswas	Do.	Sing Jalli	500 0 0		
		Sukul Mundal	Do.	Bariala	300 0 0		
	Jessore	Gagan Mistri	Do.	Garibpur	200 0 0		
		Cherakali Sheikh	Do.	Bholkara	600 0 0		
		Badal Mundal	Do.	Shomaspur	700 0 0		
		Thakamoni Dasya	Do.	Mohakul	600 0 0		
		Alladi Bibi	Bridge	On the river Harihar	2,500 0 0		
		Jogendra Nath Dass	Tank	Dighal Kandi	500 0 0		
		Chundra Nath Sirkar	Do.	Kurigram	500 0 0		
Presidency —*concld.*		Kodai Mina	Do.	Dumartollah	400 0 0		
		Kodai Sheikh	Do.	Ditto	300 0 0		
		Jharu Sirdar	Do.	Malidanga	300 0 0		
		Madhu Sheikh	Do.	Singa	250 0 0		
		Peary Mohun Mozumdar	Do.	Lohagara	275 0 0		
		Works costing less than Rs. 200 each	.....	.....	165 0 0		
						11,840 0 0	
		Nawab Bahadoor of Moorshedabad	Tank	Jahazmali Gurha	2,624 14 6		
			Do.	Powli	200 0 0		
	Moorshedabad	Roy Bahadoor Boodhoosingh Dodhooria	Dharmasallah	Azimgunge	6,000 0 0		
		Roy Bahadoor Bishen Chand Dodhooria.				8,824 14 6	
				Total of Presidency Division	.....	.....	31,780 9 0
		Mohadeo Das	Tank	Hashanpore	700 0 0		
		Ashkar Mondal	Do.	Chuk	600 0 0		
		Peari Mohun Nandi	Do.	Marnai	600 0 0		
		Raja Mondal	Do.	Gool	500 0 0		
		Ram Chandra Shaha	Do.	Shapahar	500 0 0		
		Shookaru Bania	Do.	Binnakuri	400 0 0		
		Gangadhar Kosya	Do.	Shalika	425 0 0		
	Dinagepore	Hanka Hazi	Do.	Ditto	375 0 0		
		Chaitan Shaha	Do.	Bashudebpore	300 0 0		
		Forash Molla	Do.	Mehitpore	300 0 0		
		Koodi Punchayet	Do.	Katta	200 0 0		
		Choti Fakir	Do.	Bashudebpore	275 0 0		
		Naloo Noshya	Do.	Bhangapara	225 0 0		
		Works costing less than Rs. 200 each	.....	.....	1,085 0 0		
						6,435 0 0	
		Khudi Mondal	Tank	Jhinarpara	400 0 0		
		Mohajan Molla	Do.	Junarpara	400 0 0		
		Modhu Mondal	Do.	Motihar	200 0 0		
		Shital Molla	Do.	Daul	400 0 0		
		Shonai Pramanick	Do.	Abya Gotopore	700 0 0		
		Kumar Jogendro Nath Roy	Do.	Bonarypara	3,000 0 0		
		Rokha Kar Moitra	Do.	Nepaldighi	1,000 0 0		
		Durga Nath Karmakar	Do.	Abdulpore	300 0 0		
		Khadu Shelan	Do.	Kushumba	492 0 0		
	Rajshahye	Bholai Mondal	Do.	Ditto	729 0 0		
		Kina Paik	Do.	Bhabra	220 0 0		
		Araj Fakir	Do.	Shemba	500 0 0		
		Mokim Shaha	Do.	Par Junky	700 0 0		
		Madhub Mondal	Do.	Shadypore	1,000 0 0		
		Mr. Lang, for Robert Watson & Co.	Do.	Bilmaria	2,000 0 0		
		Pamos Pramanick	Do.	Toon Shan	1,000 0 0		
		Kator Mondul	Do.	Jamira	375 0 0		
		Ashak Moulavi	Do.	Ditto	375 0 0		
		Works costing less than Rs. 200 each	.....	.....	350 0 0		
						14,041 0 0	
		Newaj Mohamed Gobdar	A masonry bridge	Sheroobhanga village, police-station Mithapukur.	850 0 0		
		Niwamut Patwari	Tank	Borobeel village, police-station Nesbutgunge.	1,200 0 0		
Rajshahye.		Tatta Ram Das Patwari	Do.	Khalisamadati village, police-station Kaliagunge.	505 0 0		
		Jarip Mohamed	Do.	Dharanibaree village, police-station Ulipore.	600 0 0		
	Rungpore	Dharia Dawai	Do.	Shibbaree village, police-station Ulipore.	570 0 0		
		Hisabdi Nashyo	Do.	Falaacha village, police-station Sundargunge.	300 0 0		
		Rahimanissa Bibi	Road	From Pagla village to Lalchamar Bunder.	450 0 0		
		Ram Ratan Sirkar	A masonry well	Dhappadanga village	400 0 0		
		Janaki Ballava Sen	Ditto	Boro Bhita village, police-station Jaldhaka.	300 0 0		
		Newaj Mahamed	Tank	Jhenia village, police-station Sundergunge.	350 0 0		
						5,525 0 0	
		Janoolla Shonar	Tank	Atapara, police-station Bogra	375 0 0		
		Moherulla	Do.	Kamargari, police-station Bogra.	600 0 0		
		Govinda Chandra Shaha	Do.	Matidali, police-station Bogra	1,200 0 0		
		Bormulla Pramanik	Do.	Dharia, police-station Shibgunge.	1,000 0 0		
	Bogra	Taj Pramanik	Do.	Lukhipore, police-station Shibgunge.	350 0 0		
		Dhabaree Pramanik	Do.	Banatighar, police-station Shibgunge.	300 0 0		
		Radha Mohun Chowdhuree	Do.	Tilakpore, police-station Adamdighi.	1,000 0 0		
		Raj Mohun Shaha	Do.	Govindpore, police-station Adamdighi.	2,500 0 0		
						7,325 0 0	
		Lukhi Kanta Pramanik	Tank	Pubna town	10,000 0 0		
		Anukul Chandra Kundu	Do.	Govindpore, thana Dulai	950 0 0		
		Dharanidhar Shaha	Do.	Ullapara, thana Shazadpore	900 0 0		
	Pubna	Rahini Chandra Pramanik	Do.	Chorulmure, thana Ullapara	500 0 0		
		Ramanati Roy, zemindar	Do.	Banshbaree, thana Roygunge	600 0 0		
		Mohur Molla	Do.	Talam, thana Roygunge	1,000 0 0		
						13,950 0 0	
	Darjeeling	Nil	.....	.....	.....	.....	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of district.	Grand Total of Division
					Rs. A. P.	Rs. A. P.	Rs. A. P.
Rajshahye—*concld.*	Julpigoree ...	His Highness the Maharajah of Cooch Behar	Three pipe wells ..	Ranigunge	816 0 0		
		Ditto ditto .	Improvements to dispensary buildings.	Boda and Debigunge	221 0 0		
		Ditto ditto	Tank . ..	Boda	438 0 0		
		Ditto ditto	Temple	Boda	800 0 0		
		Works costing less than Rs. 200 each...	.....	... ..	367 0 0		
						2,843 0 0	
				Total of Rajshahye Division	.....	....	50,668 0 0
	Dacca	Mussamut Rosoni, wife of Rasan Bepari, of Rason Bag.	A masonry ghát	Naraingungo on the east side of the municipal tank.	300 0 0		
		Baboo Okhoy Chandra Shome	Tank	Krishnapura, in thana Narainguge.	500 0 0		
		Works costing less than Rs. 200 each	....	....	152 0 0		
						952 0 0	
	Furreedpore ...	Giris Chandra Sarkar .	Tank	Godardhardangi, thana Furreedpore.	400 0 0		
		Maharajah Sir Jotendra Mohan Tagore, K.C.S.I.	Do.	Muraridaha, thana Furreedpore.	2,000 0 0		
		Gobinda Biswas	Do.	Eranda, outpost Hamdampore.	(a)600 0 0		
		Jadav Chandra Ghose	Do.	Dhupri, thana Pangsa	500 0 0		
		Naba Krishna Kachara	Do. .	Dudkhali, outpost Habigunge.	350 0 0		
		Syjuddin Ahmed	Do.	Bahadurpur, thana Shibchur	2,000 0 0		
		Rajoni Kantha Ghatak	Do.	Baliohar, thana Palong ...	1,000 0 0		
		Chandra Kumar sen ..	Do.	Ditto ditto	250 0 0		
		Mohesh Chandra Mukerji	Do.	Palong, thana Palong . ..	200 0 0		
		Baikanta Chandra Saha . .	Do.	Tulashar, thana Palong ..	700 0 0		
		Baboo Kali Krishna Tagore .	Do.	Hatoria, outpost Burirhat ...	700 0 0		
		Dena Bandhu Sikdar .	Do.	Jhikarhati, ditto ...	800 0 0		
		Rama Charan Roy Choudhuri .	Do.	Surgram, thana Gopalgunge ..	200 0 0		
		Works costing less than Rs 200 each	.....	....	(b)450 0 0		
						10,150 0 0	
Dacca ...		Baboo Behari Lal Roy	Higher class English school.	Barisal	900 0 0		
		Tukani Peshakar	Tank with masonry ghát.	Jhalakati	300 0 0		
	Backergunge	Achghar Sopahi	Tank	Barapata	500 0 0		
		Hira Gazi	Do. .. .	Charpata	200 0 0		
		Jinnatali Taluqdar	Do.	Chhotapata	200 0 0		
		Works costing less than Rs. 200 each	.....	...	360 0 0		
						2,460 0 0	
	Mymensingh ..	Bhola Nath Bhaduri	Tank ...	Bhakbhakia, police-station Durgapore.	500 0 0		
		Jorip Sheikh	Do. .	Kalpa, police-station Kutwali.	375 0 0		
		Kubir Sheikh	Do.	Kushar, police-station Kutwali	400 0 0		
		Munshi Mandal .	Do.	Balashar, police-station Phulbaria.	600 0 0		
		Lesee Munshi ...	Do. ...	Nyarbari, police-station Phulbaria,	400 0 0		
		Nobin Kishori Choudhurani ...	Do. ..	Lukhipore, police-station Phulbaria.	500 0 0		
		Har Dass	Do.	Angariapara, police station Phulbaria	500 0 0		
		Nur Dass	Do. . ..	Chowdar, police-station Phulbaria.	350 0 0		
		Jabir Bepari	Do. . ..	Anbaripara Joydee, police-station Phulbaria	375 0 0		
		Tenkar Dass	Do.	Ditto ditto	350 0 0		
		Sharoop Bepari . ..	Do. ..	Anbari, police-station Phulbaria.	475 0 0		
		Anmar Singh	Do. ..	Koysharchalla, police-station Phulbaria.	475 0 0		
		Karim Rahim Sheikh	Do.	Rahimpore, police-station Phulbaria.	400 0 0		
		Kali Nath Neogi, Taluqdar ..	Do. ..	Door, outpost Pengna ..	700 0 0		
		Thakur Das Shaha .. .	Do ...	Sarishabari, ditto	518 0 0		
		Biswasvari Devi Choudhurani	Do.	Isergunge, outpost Issergunge	4,500 0 0		
		Mahajan Sheikh	Do .	Nandail, outpost Nandail ...	400 0 0		
		Mahari Doi	Do. . .	Jangerpore, ditto ...	300 0 0		
		Khabil Mir Sarkar	Do	Ditto ditto ..	400 0 0		
		Soleman Sheikh ...	Do.	Kalikapore ditto	300 0 0		
		Baboo Gobinda Chandra Roy	Well	Beshaherhut, police-station Tangail.	1,000 0 0		
						13,618 0 0	
				Total of Dacca Division .	.	....	27,380 0 0
	Tipperah	Rasul Ali	New tank ...	Karaikandy, Daudkandy .	200 0 0		
		Shafurudy	Ditto	Baksatarampur ditto ..	250 0 0		
		Esaf	Ditto . .	Ditto ditto ...	200 0 0		
		Narain Kaibarta	Ditto ...	Ditto ditto	300 0 0		
		Allimuddy	Ditto	Shuwakandee ditto	300 0 0		
		Ektar	Ditto ...	Kamarkandy ditto ..	400 0 0		
		Shakir Mahomed	Ditto	Haripur ditto	200 0 0		
		Hushanuddi	Ditto ..	Biramkandy ditto	3 0 0 0		
		Works costing less than Rs. 200 each	.....	. ...	230 0 0		
						2,230 0 0	
Chittagong	Noakholly ...	Petamber Shaha	Tank	Bashpara, Chagalnya ..	1,000 0 0		
		Works costing less than Rs. 200 each	..	. ..	230 0 0		
						1,230 0 0	
	Chittagong ...	Sasti Charan Mazumdar	Tank	Suchakradundi Patea	1,200 0 0		
		Chand Meah	Do.	Hinguli, Mirkasarai	500 0 0		
		Somed Ali	Do.	Paschim Isakhali, ditto	506 0 0		
						2,206 0 0	
	Chittagong Hill Tracts.	Nil.					
				Total of Chittagong Division.	....	...	5,716 0 0
Patna ...	Patna ...	Tulsi Dass Mahanth ...	2 masonry wells	Ichhose	200 0 0		
		Moulvie Ali Ahmad, for Bibi Sogra, widow of Moulvie Abdul Anis.	Tank	Koila	25,000 0 0		
		Works costing less than Rs. 200 each	... ..	...	667 0 0		
						25,867 0 0	

(a) District Board paid half the amount.

(b) Of this amount, District Board paid Rs. 150.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of Division
					Rs. A. P.	Rs. A. P.	Rs. A. P.
		E. Solono, Esq.	Embankment	Belsour	483 0 0		
		Ditto	Ditto	Roopnich	353 0 0		
		Ditto	Ditto	Gouspore Jounah	230 0 0		
		Hurbuns Gir Gosain	Tank	Bodh Gya	200 0 0		
		Baboo Bulaki Lal Dewan of Baboo Ran Bahadur Singh.	Well	Beldari Hamlet	300 0 0		
		Ali Raza Khan	Do.	Nojouli	200 0 0		
	Gya	Heera Singh	Do.	Karmathoo	300 0 0		
		Mewa Lal	Do.	Asni	300 0 0		
		Sahai Singh	Do.	Goodroo	200 0 0		
		Kunj Behari Sahu	Do.	Rasorah	200 0 0		
		Gosain Bimuldeo Gir	Do.	Gosain Peshra	200 0 0		
		Ginoria	Do.	Dandnagar	300 0 0		
		Phulmanhs	Do.	Ajan	200 0 0		
		Paramhans Bahaji	Do.	Kishunpur Khurd	400 0 0		
		Works costing less than Rs. 200 each			6,104 0 0	10,202 0 0	
		Ram Jiwan Roy	Masonry well	Lowhur Khurd	225 0 0		
		Mukhram Dass	Ditto	Sinha	300 0 0		
		Bhirgoo Lall	Ditto	Kalianpore	300 0 0		
		Ramsaran Misir	Ditto	Sonbarsa	250 0 0		
		Sheo Dutt Lall	Ditto	Hurdia	200 0 0		
		Lugeshwar Lall	Ditto	Ditto	200 0 0		
		Mussamut Myle	Ditto	Barsan	300 0 0		
		Baboo Lall Nooniar	Ditto	Arsan	270 0 0		
	Shahabad	Golab Shah	Ditto	Sopahi	300 0 0		
		Amir Singh	Ditto	Chandwat	400 0 0		
		Baboo Chaturi Singh	Ditto	Darigaon	300 0 0		
		Akhaj Teli	Ditto	Kirpa	200 0 0		
		Kaloo Singh	Ditto	Nafukpur	200 0 0		
		Imrit Lall	Ditto	Tiwai	300 0 0		
		Mussamut Radha Kuar	Ditto	Mohoniah	200 0 0		
		Rameshwar Pandey	Tank	Kabirajpur	200 0 0		
		Works costing less than Rs. 200 each	Do.		2,498 0 0	6,543 0 0	
		Gobind Sahu	Tank	Bhour	500 0 0		
		Mohunt Narsing Doss	Do.	Rampatti	2,000 0 0		
		Kalar Thakoor	Do.	Malmal	500 0 0		
		Bidya Nath Jha	Do.	Shubhankarpore	500 0 0		
		Jadu Nandun Pathak	Do.	Somnat	700 0 0		
		Choa Monde	Do.	Rarhi	500 0 0		
		Jhomak Gowala	Do.	Soudra	600 0 0		
		Hita Gowala	Do.	Do.	500 0 0		
		Mohunt Narsingh Dass	Do.	Madhwapore	600 0 0		
		Ram Dass Gowala	Do.	Deodha	700 0 0		
		Chandi Baboo	Do.	Parsowni	2,000 0 0		
PATNA—*contd.*		Thithur Jha	Do.	Kakrowl	500 0 0		
		Bidya Nath Rai	Do.	Karhi	400 0 0		
		Shaik Isuf	Do.	Murith	1,000 0 0		
		Digambar Singh	Do.	Andhera Moth	1,000 0 0		
		Rangi Sahu	Do.	Pahio	600 0 0		
		Bhawani Monder	Do.	Do.	800 0 0		
		Jalim Monder	Do.	Darahra	1,000 0 0		
		Sopan Rawot	Do.	Kusmar	900 0 0		
		Poran Gowala	Do.	Bhepare	900 0 0		
		Jhomak Gowala	Do.	Jhonghpatti	900 0 0		
	Durbhanga	Rampat Monder	Do.	Gotparsahi	700 0 0		
		Cheddi Sahu	Do.	Madhwapore	500 0 0		
		Panup Lal Sahu	Do.	Lachmipore	1,000 0 0		
		Deonath Jha	Do.	Boreena	1,000 0 0		
		Doora Chowdhory	Do.	Tara Sahi	1,000 0 0		
		Mongal Gowala	Do.	Sandsan	1,800 0 0		
		Bacha Thakur	Do.	Ladari	1,800 0 0		
		Gunga Pershad	Do.	Hariharpore	1,000 0 0		
		Ranga Jha	Do.	Mohuna	1,035 0 0		
		Bhaijee Chowdhory	Do.	Kotuhpore	800 0 0		
		Kari Jha	Do.	Bytha	900 0 0		
		Dodhrain Ojhain	Do.	Rusmari	1,000 0 0		
		Jungli Jha	Do.	Nawanagar	1,500 0 0		
		Mohi Sori	Do.	Kusmar	900 0 0		
		Shaikh Fais Ally	Masonry well	Mugurdahi	1,000 0 0		
		Jhoti Teli	Do. bridge	Mahomedpore	700 0 0		
		Lalla Baboo *alias* Baboo Brij Behari Lall	Tank	Sari	900 0 0		
		Works costing less than Rs. 200 each.			4,308 0 0	38,443 0 0	
		Shewdhary Thakur	Tank	Patahirup	300 0 0		
		Jewan Teli	Well	Baria	200 0 0		
		Damri Lall	Tank	Deoria	500 0 0		
		Luchmi Prasadh	Bridge	Mohna	500 0 0		
		Kanaia Pandey	Tank	Bahilwara Rasulabad	2,500 0 0		
		Kunjbehari Dooboy	Well	Saidpore Gonesh	250 0 0		
		Sohar Barar	Tank	Mail	1,001 0 0		
		Gowri Singh	Do.	Saidpore	200 0 0		
		Ram Sahai Koeree	Bridge	Mothua Malik	300 0 0		
	Mozufferpore	Nathu Mahton	Tank	Sunbarsa	700 0 0		
		Hathu Sahu	Do.	Rajwara	300 0 0		
		Ram Charan Raut	Do.	Dalokwa	1,000 0 0		
		Mahadeb Raut	Do.	Do.	1,000 0 0		
		Ajudhya Nath Misser	Do.	Pata	700 0 0		
		Makund Jha	Do.	Samor	800 0 0		
		Nathu Sahu Teli	Do.	Vitha Kulan	1,000 0 0		
		Tiluck Khawas	Do.	Simiabin	600 0 0		
		Manjar Koomhar	Do.	Bisputti	700 0 0		
		Works costing less than Rs. 200 each			14,904 0 0	27,455 0 0	
		Gokul Pandey	Well	Dharaha	200 0 0		
		Gopi Ballam Lal	Do.	Sahooly	200 0 0		
		Gunga Dyal Sah	Do.	Sadpore Dighwara	200 0 0		
		Rajhan Singh	Do.	Chokanar	200 0 0		
		Indercjeet Pershad	Do.	Doomry	200 0 0		
		Seedha Singh	Do.	Pondhari	200 0 0		
		Ram Rakha Sah	Do.	Jahanpore	200 0 0		
		Shew Dewan Lall	Do.	Rishoonpura	200 0 0		
		Gokhool Lal	Do.	Uphar	400 0 0		
		Meetarjeet Baranwar	Do.	Durowli	250 0 0		
		Baboo Ram Singh	Do.	Shahpore	250 0 0		
		Thakur Pershad	Do.	Mirzapore	400 0 0		
		Imrit Shah	Tank	Pusnowli	2,000 0 0		
		Works costing less than Rs. 200 each.			10,414 0 0	24,314 0 0	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of Division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
Patna—*concluded.*	Chumparun ...	Hurihar Misir	2 Wells	Suzano	300 0 0		
		Bhotrab Sahu	Bridge	Monsa Chupra	500 0 0		
		Prsag Turha	Do.	Ditto	200 0 0		
		Jagoo Bhagat	Do.	Bishoonpura	300 0 0		
		Tappi Thakur	Tank	Moodla	200 0 0		
		Ghun Syam sairi	Well	Khantarwa	400 0 0		
		Fajdar Sing	Tank	Khajoora	1,000 0 0		
		Kadai Rai	Do.	Ditto	200 0 0		
		Purmeswar Rai	Road	Jhungra Jamani	400 0 0		
		Doolhin Saheba Bethia	Well	Bhuraha	200 0 0		
		Ditto	Do.	Purundra	200 0 0		
		Ram Durshun Pande	Do.	Jaroolia	225 0 0		
		Hurbansh Misir	Do.	Jogipore	250 0 0		
		Lall Chand Chamar	2 Wells	Baldari	200 0 0		
		Priyag Rai	Well	Bukhria	200 0 0		
		Dulhin Saheb Bethiah	2 Wells	Nawapore	350 0 0		
		Chhathoo Teli	Well	Muthpoli	350 0 0		
		Kunkar Teli	Do	Ito	300 0 0		
		Nursingh Sahoye	2 Wells	Matiaria	500 0 0		
		Bagha Jagtu Mullah	Well	Parsawni	250 0 0		
		Khaki Baba Sadhu ...	Do	Lagunha	300 0 0		
		Works costing less than Rs. 300 each.	... ...	.....	13,744 0 0		
						19,319 0 0	
				Total of Patna Division	.....	.....	1,52,343 0 0
	Monghyr ...	Bhaghu Modi	Tank	Sewab	400 0 0		
		Jahuri Wunder Kaire	Masonry well	Dharona	400 0 0		
		Mannu Rai Babhan	Ditto	Hahari	400 0 0		
		Maharaja Laonmissur Singh	2 Masonry wells ...	Kharagpore	400 0 0		
		Thakuri Modi	Masonry well	Ditto	300 0 0		
		Dukhi Choudhury	Ditto	Lanchi	250 0 0		
		Raja Pudmanand Singh	Ditto	Gogree	300 0 0		
		Rundi Rai	Ditto	Kajraita	200 0 0		
		Syam Gossain	Ditto	Bhatkhar	200 0 0		
		Bachu Choudhry	Ditto	Dariarpur	300 0 0		
		Baboo Sewa Dhin Singh	Ditto	Sukarpara	250 0 0		
		Radhey Singh	2 Masonry wells ...	Maleypur	300 0 0		
		Ram Manee Bhagat	Masonry well	Haihara	400 0 0		
		Jees Bahadoor Singh	Ditto	Khera Rampur	200 0 0		
		Nawab Ali Khan	Ditto	Hussenabad	500 0 0		
		Khub Lall Beldar	Ditto	Lahanah	200 0 0		
		Deoki Kasar Benia	Ditto	Dardih	200 0 0		
		Budhan Mahton	Ditto	Karandih	200 0 0		
		Kanhaia Modi	Ditto	Nagri	300 0 0		
		Mago Kurmi	Ditto	Hamirpur	200 0 0		
		Rawan Baboo	Ditto	Ulao	200 0 0		
		Wife of Chaman Singh	Ditto	Indiar	200 0 0		
		Dhannu Gowala	Ditto	Hirabalah	300 0 0		
		Chatri Hazari	Ditto	Tetri	300 0 0		
		Ram Kankir Dass Gossain	Ditto ...	Meha	300 0 0		
		Bhuban Sahu	Ditto	Hossena	300 0 0		
		Mir Nasir	Ditto	Kuahba	300 0 0		
		Ranga Singh	Ditto ...	Nako	200 0 0		
		Golab Singh	Ditto	Rabhungaon	200 0 0		
		Parsee Lall	Ditto	Dansalpur	300 0 0		
		Jhanli Dhanuk	Ditto	Hajetpore	300 0 0		
		Mohun Halwai	Ditto	Behat	200 0 0		
		Parso Bahhin, wife of Durga Singh ...	Ditto	Sabona	500 0 0		
		Works costing less than Rs 300 each.	... ...	.....	200 0 0		
					4,955 0 0	14,385 0 0	
Bhagulpore.	Bhagulpore ...	Bhichhuk Nath Pande	A masonry bridge ...	Bairam	1,000 0 0		
		Luchman Mundar	Tank	Narowni	200 0 0		
		Nanumat Thakur	Do.	Khusunputti	500 0 0		
		Dukha Munder	Do.	Kancoriyatari	500 0 0		
		Tulsi Mundar	Do.	Jemachpore	700 0 0		
		Krishna Dhan Das	Do.	Bhirkhee	1,000 0 0		
		Khunter Gowala	Do.	Parmanandpore	700 0 0		
		Nubu Lall Patwari	Do.	Singesurthan	500 0 0		
		Futter Jha	Do.	Abhuar	600 0 0		
		Gokul Chowdhury	Do.	Dinaputh	600 0 0		
		Leela Munder	Do.	Seraighurtolacheku	500 0 0		
		Bhugwani Gowala	Do.	Nawabakhur	400 0 0		
		Beni Dutt Brahmin	Do.	Majhpore	400 0 0		
		Asak Maharaj Bhat	Do.	Thukraha	450 0 0		
		Jai Narain Singh	Do.	Sukhanagpur	400 0 0		
		Mussamat Kapurbati Kusari	Do.	Amarpore	1,300 0 0		
		Mussamat Ghar Bharn Kumri ...	Do.	Rahua	500 0 0		
		Chooraman Jha	Do.	Kahera	775 0 0		
		Nandu Lal	A masonry well ...	Satehera	2,000 0 0		
		Manik Chand Sahu	Ditto	Rarhana	500 0 0		
		Khokun Sahu	Ditto	Ekdara	400 0 0		
		Works costing less than Rs. 300 each...	.....	.....	150 0 0		
						14,075 0 0	
	Purneah ...	Hazari Mandal	A tank	Kukronee	700 0 0		
		Murad Sao	Do.	Patoah	700 0 0		
		Nand Kishore Bha	Do.	Do	325 0 0		
		Miter Nath Jha	A well	Bissenpore	300 0 0		
		Radha Kant Ojha	Do.	Do.	250 0 0		
		Works costing less than Rs. 300 each ..	.....	.....	650 0 0		
						2,925 0 0	
	Maldah ...	Baboo Sarat Chandra Rai Chowdhury	Masonry bridge ...	Mobarakpore	4,000 0 0		
		Kafat Ulla Mundal	Tank	Nayadab	700 0 0		
		Baboo Sarat Chandra Rai Chowdhury	School building ...	Simchya	2,600 0 0		
						7,300 0 0	
	Santhal Pergunnahs.	Dukhi Mian	Tank	Kanoo	400 0 0		
		Nandoo Rus	Bandh, 740 feet ...	Pajodaha	400 0 0		
		Ghatwals, mustagirs and ryots of tupseh Sarath Deoghur.	37 Dams and bandhs	Throughout Deoghur subdivision.	1,480 0 0		
		Mr. W. M. Grant	Cleaning and deepening of Phuta bandh.	Dumka	500 0 0		
		Works costing less than Rs. 300 each ..	.....	.....	52 0 0		
						2,832 0 0	
				Total of Bhagulpore Division	.....	.....	41,377 0 0
Orissa ...	Cuttack ...	Apuri Rewa of Moogbadi, pergunnah Dersbin	Tank	Moogbadi	600 0 0		
		Works costing less than Rs. 300 each	.....	.....	456 8 0		
						1,056 8 0	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of Division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
Orissa—concluded.	Balasore	Apatti Dibba of Kapasirta, pergunnah Mongla in Kanthi.	Tank ...	Napo, police-station Jellasore	1,070 0 0		
		Dhooruli Charan Jenah of Nepo .	Do.	Khoorda, police-station do.	500 0 0		
		Baboo Akhoy Narayan Das of Balishahi in Midnapur district.	Do.	Bichitrapur, police-station Balliapal.	200 0 0		
		Baboo Sunder Das of Kokhra, pergunnah Mohespur.	Do.	Mohespur, police-station Balliapal.	500 0 0		
		Baboo Akhoy Kumar Das of Dehurda, pergunnah Birkul.	Do.	Puntye, police-station Balliapal.	300 0 0		
		Hurry Panigrahi of Diya, pergunnah Nangleseer.	Do.	Koosda, police-station Busta	350 0 0		
		Balbhadra Das of Baghua, pergunnah Banchar.	Do.	Hanagori, police-station do.	600 0 0		
		Arun Das Nawabahi, pergunnah Arso.	Do.	Nochipiri, police-station Busta.	900 0 0		
		Ramprasad Malik of Nalanga, pergunnah Rundhia Argurah.	Do.	Nalanga, police-station Bhuddruck	300 0 0		
		Kali Panda of Patooli, pergunnah Soso.	Do.	Patooli, police-station Bhuddruck.	325 0 0		
		Fakir Sahoo and Kelsy Bank of Karandimal, pergunnah Kyma.	Do.	Karandimal, police-station Chandbali.	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	1,545 0 0	6,690 0 0	
	Pooree	Bharat Sahu	Tank ...	Panchpalli, Khoorda	400 0 0		
		Dinabandhu Misra	Do.	Sardaipur, ditto	600 0 0		
		Bhagirathi Mahanti	Do.	Antarkian, Banpur	420 0 0		
		Works costing less than Rs 200 each	.....	.....	486 0 0	1,906 0 0	
				Total of Orissa Division	...	...	9,652 8 0
Chota Nagpore.	Hazaribagh	F. F Christien, Esq., of Gawan	A bandh ...	Tisree	200 0 0		
		Works costing less than Rs. 200 each	. ...	... ..	100 0 0	300 0 0	
	Lohardugga	Works costing less than Rs. 200 each	. ..	... ..	155 0 0	155 0 0	
	Manbhoom	Kanoo Mundle of village Burra, pergunnah Gola in Hazaribagh district.	Excavating a tank ..	Digardi, police-station Jhalda	600 0 0		
		Boloram Ghosal of village Kharkhari, pergunnah Topechansi.	Ditto ...	Kharkhari, pergunnah Topechansi.	200 0 0		
		Gopi Nath Bhagat of village Toondi, pergunnah Toondi.	Well	Toondi, pergunnah Toondi ...	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	150 0 0	1,350 0 0	
	Singbhoom	Sridhar Mandal of Seraikella	Bandh	Jumal in Seraikella	240 0 0		
		Baboo Gokool Chunder Singh Deo of Seraikella.	Do.	Bhurkuli in ditto	200 0 0		
		Modan Patter of Dhulbhoom ...	Tank	Parabhalki in Dhulbhoom ...	200 0 0		
		Judhistir Mondal of do. ..	Do.	Jamundihi in ditto ...	300 0 0		
		Works costing less than Rs. 200 each		...	415 0 0	1,355 0 0	
				Total of Chota Nagpore Division ...	...	.....	3,160 0

Summary.

				Rs.	A.	P.
Total of	Burdwan	Division	... ...	23,165	0	0
Ditto	Presidency	do.	... ...	81,780	9	0
Ditto	Rajshahye	do.	... ...	50,668	0	0
Ditto	Dacca	do.	.. ..	27,380	0	0
Ditto	Chittagong	do.	.. ..	5,716	0	0
Ditto	Patna	do.	... ...	1,52,343	0	0
Ditto	Bhagulpore	do.	... ...	41,377	0	0
Ditto	Orissa	do.	... ...	9,652	8	0
Ditto	Chota Nagpore	do.	... ...	3,160	0	0
			Grand Total of Divisions ...	3,95,242	1	0

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION.

THE following Note on irrigation operations from the Sone Canals during the kharif season 1889-90 is published for general information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

Note by C. W. ODLING, Esq., *Superintending Engineer, Sone Circle, on irrigation operations from the Sone Canals during the kharif season* 1889-90,—*dated* 12*th January* 1890.

1. The season, though the rainfall was at times in defect, was on the whole not an unfavourable one so far as the rice crop was concerned, rain continuing to fall to a later date in September than was the case in the previous year. The main features of the rainfall during the two years are shown in the table below :—

Comparative statement of rainfall during the years 1888 *and* 1889.

Months.	Recording Stations.				
	Arrah.	Buxar.	Bankipore.	Dehree.	
	Inches.	Inches.	Inches.	Inches.	
July 1889	13·58	16·89	8·84	7 22	
August „	13·68	11·09	9·49	19·21	
September „	5·15	6·00	15·70	7·00	
October „ .. .	0 92	1·02	0 05	2 84	
Total ...	33 33	35·00	34·08	35·77	34·55 average.
July 1888	17·90	12·11	15·14	15·90	
August „	17 74	13·39	17·11	15·36	
September „	5 58	11·25	3 17	7·93	
October „	0·43	0·60	Nil	1·36	
Total ...	41·65	37·35	35·42	40 55	38·74

The rainfall during 1889 was little, if at all, below the normal rainfall, which is 41·25 inches for the *year*, for the area commanded by the Sone Canals. There was, however, except at Bankipore no rain until the last day of the *Hutia* (25th September to 8th October), and the fall during the whole month of October was scanty and made up of insignificant showers.

There was a fall of ¼ of an inch at Arrah on the 7th October, none elsewhere.

2. The area irrigated during the season, and during the corresponding periods of 1888, 1887 and 1886, are shown in the statement following :—

	Five-year leases.	Annual kharif.	Sugarcane.	Kharif rainfall, July to October, inclusive average of head-quarters stations.
	Acres.	Acres.	Acres.	
1889-90	216,000	38,500	5,626	34·55
1888-89	200,102	69,628	4 600	39·12
1887-88	210,164	57,595	6,265	26·65
1886-87	194,556	30,082	11,626	49·40

The figures for 1889-90 are approximate, as the complete areas have not yet been reported, but on the information at present available the total area irrigated was 260,000 acres against 274,330 acres in 1888-89.

The deficiency is wholly in annual kharif leases, the five-year leases having increased by 16,000 acres, notwithstanding the lapse of leases for 45,445 acres on the 1st April 1889. Applications for 5-year leases for 29,788 acres were refused for want of proper channels or other good reasons. The falling off in the area under irrigation, compared with the previous year, shows how much more patent a factor is the time at which rain occurs than the total rainfall of the season or year.

3. The discharge of the canals during the thirty days of greatest demand for the last two years is shown in the subjoined abstract: —

Period	Discharge in cubic feet per second.			
	Eastern Main Canal.	Western Main Canal.	Arrah Canal system.	Buxar Canal system.
1889.				
September, 21st to 30th ...	1,021	1,805	1,006	770
October, 1st to 10th ...	1,482	3,357	2,008	1,247
Do., 10th to 20th ...	1,457	3,474	2,155	1,296
1888.				
September, 21st to 30th ...	1,057	2,138	1,700	551
October, 1st to 10th ...	1,439	3,427	2,076	1,225
Do., 10th to 20th ..	1,450	3,858	2,360	1,492

It will be noticed that the demand for water during the first twenty days of October was not materially less than in 1888.

4. The same precautions as were reported last year have been taken to confine the supply of water to leased areas.

5. The report is submitted by me, as I was in charge of the circle during the *kharif* season.

O. W. Odling,

Superintending Engineer on Special duty.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 11th January, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Divn. 1	Burdwan Jan. 11, '90	Nil	Weather—rather a little warm than what should be, considering the season. Harvesting of *amun* is going on. Prospect of *rubbi* reported to be good everywhere except at the head-quarters subdivision, where it is below average. Prospects of potato and sugarcane good. Price of common rice at— Srs. Burdwan ... . 16¼ Culna ... ... 15 Cutwa ... . 15 1/3 Raneegunge ... ... 16 } per rupee.
2	Bankoora „ 11, '90	Nil	Weather—cold and clear. Outturn of *amun* crop is 10 annas on the average in the Sudder. *Rubbi* crops growing tolerably well. Sugarcane being pressed in some parts of the Bishenpore subdivision. Coarse rice is selling at 21 seers per rupee at Sudder and 18½ seers at the Bishenpore subdivision.
3	Birbhum „ 11, '90	Nil	Weather—cloudy and warm for time of year. Very good prospects for winter crops of all kinds. Price of rice 16½ seers at Soory and 18 seers at Rampore Hât, per rupee.
4	Midnapur „ 11, '90	Nil	Weather—fair. *Amun* harvest nearly completed. The cutting of *rubbi* has commenced in some places. This crop is not a good one. Prices— Srs. Sudder ... ... 16 Contai ... ... 25 Tumluk ... ... 18 Ghatal ... ... 20 } per rupee.
5	Hooghly „ 11, '90	Nil	Weather—very close. Harvesting of *amun* is nearly completed. Prospects of *rubbi* crop, specially sugarcane, is very hopeful. Price of common rice— Srs. Ch. Sudder ... ... 12 0 Serampore ... ... 11 8 Jehanabad ... ... 18 7 } per rupee.
	Howrah „ 11, '90	Nil	Weather—warm for the season. Rain brewing up apparently. Prospects of crops good. *Amun* harvest going on. Price of common rice— Srs. Sudder ... ... 12½ Uluberya ... . 15½ } per rupee.
	Central Districts.		
Presidency Divn. 6	24-Pergns. Jan. 11, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Winter crops doing well.
7	Nuddea „ 11, '90	Nil	Weather—seasonable. All the winter crops are doing well. *Kalai* is being cut and harvested.
8	Khoolna „ 11, '90	Nil	Weather—seasonable. *Amun* harvest still progressing; outturn good. Prospects of winter crop good.
9	Jessore „ 11, '90	Nil	Weather—cloudy in the latter part of the week. *Amun* harvesting nearly over. Cold-weather crops doing fairly well. Prices of rice stationary.
10	Moorshedabad „ 11, '90	Nil	Weather—clear and cold. *Amun* is still being cut. Prospects of *rubbi* continues favourable.
Rajshahye Divn. 11	Dinagepur „ 11, '90	Nil	Weather—seasonable. The harvesting of winter rice nearly over. Pressing of sugarcane begun. Prospect of spring crops good.
12	Rajshahye „ 11, '90	Nil	Weather—seasonable and partially cloudy. The prospect of the winter crop is generally good all over and sowing has come to a close. Prospect of ganja good at Nowgong. Rice sells at 16 seers 9 chittacks for the rupee.
13	Rungpur „ 11, '90	Nil	Weather—overcast, warmer than last week. Sugarcane is being cut and crushed. Results good. Mustard is coming into seed. Tobacco is flourishing. Prospects of *rubbi* favourable. Prices have a downward tendency.
14	Bogra „ 11, '90	Nil	Weather—days hot and nights somewhat cooler. One-eighth part of *amun* crop is remaining to be reaped. The expected outturn is about 18 annas. Other crops are also being reaped. Common rice at head-quarters is 21 seers per rupee.
15	Pubna „ 11, '90	Nil	Weather—seasonable. *Amun* crop on low lands still being harvested. Outturn of *amun* below average in Sudder subdivision. Sugarcane deficient. Cold-weather crops satisfactory. Prices somewhat lower.
16	Darjeeling „ 11, '90	·16	Weather—cloudy and cold. Prospects generally good.
17	Julpigoree „ 11, '90	·05	Weather—cloudy and cold, but fair in the latter part of the week. Cutting of *kaimani* paddy nearly finished, and 14 annas outturn is expected. Tobacco plants doing well. No change in prices.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
Dacca Divn.			
18	Dacca Jan. 11, '90	Nil	Weather—cool and fine, *Boro* paddy being sown. Winter crops doing well. Harvesting of *mung* and *maskalai* commenced in the Manickgunge subdivision. Fodder is available. Prices of common rice stationray.
19	Furreedpur „ 11, '90	Nil	Weather—warmer than usual at this time of the year. *Amun* paddy harvested. *Kalai* and *mung* being gathered. State of *rubbi* crops fair. Coarse rice selling at 17 seers per rupee in Madaripur and at 16 seers per rupee in Goalundo.
20	Backergunge „ 11, '90	Nil	Weather—seasonable. Prospects of crops good. Harvesting of *amun* nearly completed. Common rice is selling at 16 seers per rupee.
21	Mymensingh „ 11, '90	Nil	Weather—cool and bright. Prospects of *rubbi* crops good. Harvesting of *amun* paddy is still going on. Current price of the cheapest kind of rice is 12 seers 13 chittacks per rupee.
Chittagong Divn.			
22	Chittagong „ 11, '90	Nil	Weather—seasonable. Outturn of *amun* is 14 annas. State of winter crop is good.
23	Noakholly „ 11, '90	Nil	Weather—seasonable; cloudy at times Reaping of *amun* almost completed. *Rubbi* crops doing well.
24	Tipperah „ 11, '90	Nil	Weather—seasonable. Winter crops progressing well. Mustard is being collected.
25	Chittagong Hill Tracts ..		Report not received.
	Hill Tipperah Jan. 11, '90	Nil	Weather—gloomy and at times cloudy. *Amun* paddy and cotton continue to be gathered. Sugarcane and mustard do not look well. Prospects of tobacco and chillies fair.
BEHAR.			
Patna Divn.			
26	Patna „ 11, '90	Nil	Weather—cold. *Rubbi* crops are doing well. A shower of rain will still do some good to the standing crops. Mustard and pea are in pod. Prospects of poppy favourable. Prices of food-grains are almost stationary.
27	Gya „ 11, '90	Nil	Weather—cold. Harvesting of paddy still going on Prospect of *rubbi* is good. Poppy plants are thriving. No person on relief work; none gratuituously relieved. Food-stock sufficient.
28	Shahabad „ 11, '90	Nil	Weather—seasonable, but rather milder. The prospects of *rubbi* and poppy continue to be good. Sugarcane being pressed. Prices stationary.
29	Durbhunga „ 11, '90	Nil	Weather—mornings foggy, hot during the day. Harvesting of rice completed. *Rubbi* prospects continue favourable. A shower of rain is, however, wanted. Poppy is good. Lands being prepared for indigo. Prices almost stationary.
30	Mozufferpur „ 11, '90	Nil	Weather—rather cloudy during the week. Prospects of *rubbi* crop continue good. Poppy crop in Hajipur backward, and a good outturn not expected.
31	Sarun „ 11, '90	Nil	Weather—seasonable. Prospects of *rubbi* and poppy crops continue good. Sugarcane is being pressed. Outturn estimated at 16 annas.
32	Chumparun „ 11, '90	Nil	Weather—cold and clear; occasionally cloudy. *Rubbi* and poppy in good condition. A good shower of rain within the next fortnight will ensure an excellent crop. New rice selling at 19 seers a rupee. Sugarcane pressing continues.
Bhagulpore Divn.			
33	Monghyr „ 11, '90	Nil	Weather—seasonable. *Aghani* paddy all harvested; outturn on the whole 14 annas. Standing *rubbi* crops doing well.
34	Bhagulpur „ 11, '90	Nil	Weather—rather too warm; again mornings foggy. Rice harvest is almost over. Rain wanted for wheat and other *rubbi* crops.
35	Purneah „ 11, '90	Nil	Weather—not so cold as is usual this time of the year. *Aghani* rice is nearly harvested. Outturn about average. Mustard and *kurthi* being reaped. *Rubbi* crops doing well. Prospects of tobacco good.
36	Maldah „ 11, '90	Nil	Weather—rather hot for the season. Harvesting of winter rice crops still going on in some places. *Rubbi* crops are doing well everywhere except in thana English Bazar, where some damage has been done by insects. Common rice is selling at an average of 17 seers a rupee.
37	Sonthal Perghs. „ 11, '90	Nil	Weather—cold and clear. Harvesting of *dhan* nearly over; the outturn is almost an average one. *Rubbi* crops doing well and promise a good outturn.

	No.	District and date of return.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
ORISSA				
Orissa Divn.	38	Cuttack ..	...	Report not received.
	39	Pooree Jan. 11, '90	Nil	Weather—seasonable. Harvesting of the winter (late *sarad*) crop still continues. *Laghu sarad* was harvested with a good outturn Prices of rice stationary
	40	Balasore „ 11, '90	Nil	Weather—seasonable Scarcely any paddy remains uncut. *Rubbi* crops fair.
CHOTA NAGPORE				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Jan. 11, '90	Nil	Weather seasonable. Crops in excellent condition generally. Poppy doing well. Sugarcane being squeezed.
	42	Lohardugga „ 11, '90	Nil	Weather—seasonable; rather warmer. *Rubbi* crop is doing well, but some rain is wanted. Harvesting of paddy finished. Outturn appears to be fair
	43	Singbhoom „ 11, '90	Nil	Weather—seasonable. Crop prospects good. Sugarcane is expected to yield a full outturn everywhere. *Sarso* and *sorgooja* outturn full in pergunnah Dhalbhum and on an average 12 annas elsewhere Prices stationary.
	44	Manbhoom „ 11, '90	Nil	Weather—seasonable. Winter paddy still being threshed; probable outturn 14 annas. The crops on the grounds are mustard, sugarcane, and *arhar*. The prospects of these crops are promising.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 14th January, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts.	Stock in hand as compiled on—												
	1st week of Jan. 1889.	1st week of Feb. 1889.	1st week of Mar. 1889	1st week of April 1889	1st week of May 1889	1st week of June 1889	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.	Mds.	Mds.
Bullaghatta	3,98,000	7,77,000	12,77,000	12,67,000	12,42 000	7,67 500	8,73,000	7,32 700	6,62,000	5,06,000	4,54,000	2,98,500	3,00,000
Colladanga	76,300	71,400	80,200	87,100	81,200	88 000	86,500	73,700	74,400	71,900	67,400	55,400	63,400
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghat.	6,49,200	6,96,600	7,06,200	7,64,000	7,54,200	6,96,500	6,85,400	6,97,700	5,76,30C	6,74,100	6,33,380	5,86,000	6,00,400
Pathuriaghatta, Posta, and Jorabagan.	4,000	3,500	2,000	3,200	3,000	2,500	2,000	3,000	4,000	5,000	8,000	3,000	4,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,06,60C	1,26,600	1,37,400	1,48,100	1,59,000	1,19,700	1,03,700	1,10,700	72,500	64,550	65,200	68,100	83,750
21 Minor Basars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40.000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreesur, and Chandernagore.	22,530	14,924	20,493	19,792	20,668	19,923	19,906	18,117	14,265	14,382	13,610	14,980	28,425
Total ...	17,46,630	21,80,024	27,15,293	27,79,192	27,50,468	21,84,123	22,60,506	21,30,917	18,93,465	18,25,932	17,31,310	15,13,080	15,63,975
On Railway premises on both sides of the river.	11,491 (on 4th Jan. 1889)	15,074 (on 4th Feb. 1889.)	6,853 (on 5th Mar. 1889.)	23,414 (on 4th April 1889.)	12,496 (on 4th May 1889)	6,578 (on 3rd June 1889.)	7,730 (on 3rd July 1889)	4,179 (on 3rd Aug. 1889)	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)
On boats unloaded ... By Port Commissioners' returns.	49,003 (2nd to 4th Jan. 1889.)	44,923 (1st to 3rd Feb. 1889.)	31,457 (1st to 3rd Mar. 1889.)	23,449 (1st to 3rd April 1889.)	17,963 (1st to 3rd May 1889.)	16,066 (1st to 3rd June 1889.)	25,010 (1st to 3rd July 1889.)	1,32,233 (1st to 3rd Aug. 1889.)	25,33) (1st to 3rd Sept. 1889.)	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)
By Canal returns	1,24,974 (2nd to 4th Jan. 1889.)	1,41,475 (1st to 3rd Feb. 1889.)	80,850 (1st to 3rd Mar. 1889.)	36,713 (1st to 3rd April 1889.)	8,973 (1st to 3rd May 1889.)	15,297 (1st to 3rd June 1889.)	27,106 (1st to 3rd July 1889.)	29,315 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)
Grand Total of Stocks ..	19,31,500	23,83,496	28,34,933	28,62,768	27,89,897	22,22,064	23,20,342	22,96,673	19,48,282	18,97,914	17,81,363	15,49,242	17,90,438
Probable stock available for exportation by sea.	8½ lakhs	13½ lakhs	17½ lakhs	18 lakhs	17½ lakhs	11½ lakhs	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs

Statistical Department,
The 6th January, 1890.

P. Nolan,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 5th to 11th January 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature				Hygrometry				Wind.		Rain	Weather
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity	Prevailing direction.	Miles recorded		
1890		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
Jan	5th	131·3	8·8	29·938	67·6	77·7	19·5	58·2	62·7	0·507	59·3	77	WSW and SW .	66*	Nil	Partially cloudy, ⌓, ≡.
,,	6th	129·1	9·0	30·003	67·5	77·9	19·9	58·0	62·7	·509	59·4	77	SW and WNW ..	38	,,	Chiefly clear, ⌓, ≡.
,,	7th	138·8	8·4	·022	67·2	77·7	19·8	57·9	62·6	·511	59·6	78	WNW and SW by W	61	,,	Chiefly clear, ⌓, ≡.
,,	8th	135·5	9·1	29·981	67·4	78·5	20·2	58·3	62·8	·514	59·8	78	SW by W and WSW	70	,,	Clear, ⌓, ≡.
,,	9th	127·8	8·9	30·006	65·3	76·0	20·7	55·3	59·8	·443	55·6	73	NNW, N and WNW	44	,,	Clear, ⌓, —.
,,	10th	126·5	7·3	29·961	66·3	76·5	20·6	55·9	61·9	·503	59·1	78	WNW and W by N	35	,,	Partially cloudy, ⌓, ≡.
,,	11th	134·0	9·0	·949	66·9	77·0	18·7	58·3	62·2	·499	58·9	75	W by N and WNW	52	,,	Chiefly clear, ⌓.

	Inches
The mean pressure of the seven days	29·980
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·020
	Hours.
The total number of hours of bright sunshine	60·5
The maximum possible number of hours of sunshine	75·5
	°
The mean temperature of the seven days	66·9
The average temperature of the corresponding period for 24 years, S.-G.'s Office	67·2
The extreme variation of temperature	23·2
The maximum temperature	78·5
	Miles
The highest velocity of the wind in one hour from 8 A.M. of the 5th to midnight of the 11th January 1890	9
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	77
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 5th to 11th January 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·11
The total fall from 1st to 11th January 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·11

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew; — fog.

* Movement of wind from 8 A.M. to midnight of 5th January 1890.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 13th January 1890

Meteorological Report of the Province of

STATION OBSERVATIONS.

Meteorological Division	District.	Representative stations.	Air Pressure. Highest, 8 A.M., barometer reading of month.	Air Pressure. Lowest, 8 A.M., barometer reading of month.	Air Pressure. Mean, 8 A.M., for month.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from normal mean.	Temperature. Highest of month.	Temperature. Lowest of month.	Temperature. Mean daily maximum temperature.	Temperature. Mean daily minimum temperature.	Temperature. Mean daily temperature.	Temperature. Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Humidity. Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Cloud. Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree	30·121	29·946	30·030	30 043	—	85·2	53 0	81·5*	59·7‡	67·7*	—	83	—	1·3	—	0 17
		Gopalpore	30·108	29·943	30 023	30 078	—·023	83·7	57·5	79 6	62 0	71 3	+1·7	77	—	1·4	—	0·36
		False Point	30·107	29 932	30 024	30 040	—·039	80 9	52 0	77 5	57 5	67 5	+0·4	85	+5	2 5	0	1 04
	Cuttack	Cuttack	30·070	29·901	29·984	30·070	—·015	84·8	53 9	81·7	59 2	70·5	+0·5	74	+3	2 9	+1·1	Nil
	Balasore	Balasore	30·096	29·899	30·016	30·078	—·015	84·9	50·5	78·6	55 1	66 8	+1·1	81	—	0·5	—	0·02
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs.	Sangor Island	30·100	29·937	30·021	30·058	— 024	81·7	54·8	75·8	60·4	68·1	+0 8	87	+3	2·6	0	0 03
	Midnapore	Midnapore	29 986	29·814	29·907	30·007	—·032	81 3	49·2	78·2	53·3	67·1	+0 5	74	—	1 4	—	Nil
	24-Pergunnahs, Howrah, and Hooghly	Calcutta	30·120	29 938	30·038	30·061	—·026	80·0	51·3	76 4	57 0	66 7	+0·6	81	+2	1 4	—0·6	0·03
	Burdwan	Burdwan	30 030	29·851	29·953	30·060	—·030	83·1	52·3	78 0	57 0	67·5	+0 9	74	+3	1·6	—0 4	Nil
	Bankoora	Bankoora	29·811	29·600	29 730	30 050	—·038	80·6	50 0	77·4	55·2	66·3	+0·2	76	—	1·4	—	Nil
	West Burdwan and Beerbhoom.	Ranigunge	29·800	29·625	29·730†	30·084†	—·024	80·9	50 2	78 5	55 0	66 7	+0·8	78	—	1·2	—	Nil
	Moorshedabad	Berhampore	30·070	29 864	29·985	30·056	—·036	80 1	52·2	77 0	57·1	67 1	+1·3	88	+9	1·6	+0·2	Nil
	Nuddea	Krishnagore	30 092	29 912	30 014	30·064	—·014	81·3	48·4	77·4	55·2	66 3	+0·4	85	—	1·6	—	Nil
	Jessore and Khoolna	Jessore	30·090	29·909	30 012	30·047	—·029	81·2	54 5	77·4	59·1	68·2	+1·7	93	+17	1·7	—0 3	Nil
East Bengal.	Chittagong	Chittagong	30·010	29 827	29·929‡	30·023‡	—·040	84·1	50·1	79·5	60 3	69·9	+1·9	83	+1	5·0	+2·7	0·07
	Chittagong Hill Tracts	Demagri						Observations not received.										
	Backergunge	Barrisal	30·094	29·907	30·020	30·033	—·018	81·8	54·1	77 1	58 4	67·8	+1 2	88	—	0·7	—	0·29
	Noakholly	Noakholly	30 078	29·882	29·994	30·040	—	83·0	54 0	78·7	57 6	68·1	—	88	—	0 1	—	0·15
	Furreedpore	Furreedpore	30 062	29 906	30·008	30 050	—·016	81·5	54·5	74 3‡	59·3	66 7	+1·4	88	—	0·7	—	Nil
	Dacca	Dacca	30 083	29 910	30 007	30·031	—·034	84 6	55 3	78·9	58·9	68 9	+1·1	84	+5	2 1	+0·8	Nil
	Tipperah	Commillah	30 097	29·899	30·004	30 041	—·021	83 4	55·0	79·1	57 6	68 4	+2·0	86	—	0·7	—	Nil
	Mymensingh	Mymensingh	30 067	29 877	29 980	30 040	—·023	81·8	53 4	78·1†	57 6	67·9†	+2·8	93	—	2·1	—	Nil
North Bengal.	Bogra	Bogra	30 042	29·852	29 958	30 025	—·017	81·3	53·4	78 1	56 1	67·1	+0·6	85	—	0·3	—	Nil
	Pubna	Serajgunge	30 070	29·880	29·986	30 035	—·035	81·5	51·9	78·0	56 9	67·5	+2·4	89	—	1·5	—	0 13
	Rajshahye	Rampore Beauleah.	30 060	29·869	29 963	30 036	—·030	79·9	51·7	76·8	56·2	66·5	+2 7	80	—	0·6	—	Nil
	Maldah	Maldah	30·067	29·899	29·985	30 071	—	80·5	48·8	77·7	53·6‡	65·5‡	—	83	—	0·3	—	Nil
	Dinagepore	Dinagepore	30·029	29·823	29·928	30·057	—·006	81·1	49 3	78·5	54·0	66 2	+1·1	86	—	0·5	—	Nil
	Rungpore	Rungpore	30·029	29·819	29·934	30 067	—·030	81·4	48 7	78·1	54·1	66·1	+2·3	92	—	0	—	Nil
	Julpigoree and Cooch Behar.	Julpigoree	29·859	29 650	29 763†	30 066†	—·028	?	49 4	?	55·8	?	?	92	—	0·2	—	Nil
	Darjeeling Hill Tracts	Darjeeling	23 063	22·901	23·004	—	—·023	55 2	35·0	53·8	39·4	46·1	+3·2	76	+2	2 6	—0·5	Nil
North Behar.	Purneah and North Bhagulpore.	Purneah	30 032	29·818	29 930	30·065	—·027	78·2	47·2	75·5	51·2	63 4	+0 4	89	+5	0·4	—0 6	Nil
	Mozufferpore	Mozufferpore						Observations suspended.										
	Durbhunga	Durbhunga	29 991	29·780	29·898	30·076	—·003	79 9	51·6	76·8	55·3	66·1	+2·0	83	—2	0·2	—0·7	Nil
	Chumparun	Motihari	29 942	29 702	29·835	30·078	—·012	78·6	44·9	75·5	49·7	62·6	+1·3	86	—	0·1	—	Nil
	Sarun	Chupra	29 961	29·753	29 879	30·085	—·001	79·3	50·0	75 2	52·8	64·0	+2·4	72	—	0·1	—	Nil
South Behar.	Shahabad	Dehree	29·792	29 010	29·720	30 100	—·016	81·8	49·0	76·0‡	52·5	64·7‡	+2·8	74	—	0·4	—	Nil
		Buxar	29·927	29·708	29 831	30 091	— 020	79 4	46 9	75 3	50 4	62·8	+1 0	72	—	0·6	—	Nil
		Arrah	29·970	29·753	29·871	30·081	—·010	79·9	44·6	76·0	49 7‡	62·9‡	+1·6	77	—	0 6	—	Nil
	Gya	Gya	29·771	29 585	29 691	30·096	—·024	80 9	48·5	70·9	52·2	64·6	+1·3	65	+1	1·2	—0·5	Nil
	Patna	Bankipore	29·905	29·766	29·891	30·087	—·038	79·8	47·8	76·7	51·9	63 8	+1·4	73	—3	0·7	—1·0	Nil
	South Bhagulpore and Monghyr.	Bhagulpore	29·906	29 778	29·882	30·054	—·043	80·3	48 0	77 0	51 2	64·1	+1·7	83	—	0·4	—	Nil
	Sonthal Pergunnahs	Naya Doomka	29·027	29·453	29 547	30·079	—	78 9	47·1	76·0	53·2	64 1	—	79	—	0·3	—	Nil
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·074	27·904	27·997	30·100	—·027	76·1	46 8	73·1	50·9	62·0	+1·2	64	—2	1·6	—0·3	Nil
	Lohardugga and Manbhoom	Ranchee	27 930	27·775	27·862	30·085	—·026	77·0	43·7	73·1	49 1	61·1	+0·9	67	—	2·1	—	Nil
	Singhbhoom	Chyebassa	29·369	29·193	29·293	30·009	—	81·0	45 9	78·0	52 2	65 1	—	75	—	1·2	—	Nil
Assam	Assam	Sibsagar	29·864	29 624	29 769	30·123	—·007	78·5	45·6	73·5	54·2	63·9	+2·7	90	+2	6·9	+2·6	0 33
		Dhubri	30 037	29·820	29 935	30·080	— 048	79 5	52·2	70 2	58·1	67·1	+1·7	89	+1	1·0	—0 3	Nil
		Silchar	30·029	29 820	29 933	30 044	— 029	84 6	52 9	81 4	57·7	69 6	+2·3	90	+3	4·5	+0·9	Nil

* Means of 23 days.
† " 29 "
‡ " 30 "

Bengal for the month of December 1889.

DISTRICT OBSERVATIONS.

RAINFALL. Of month. Mean of district	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	RAINFALL. Since 15th May 1889. Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION
0·35	0·86	−0·51	1·5	1·5	74·88	55·32	+19·56	96·0	82·3	Pooree ... Gopalpore .. False Point ...	Pooree	ORISSA
0·05	0·60	−0·55	0·2	1·3	66·24	51·62	+14·62	92·9	78·7	Cuttack ...	Cuttack	
0·02	0·31	−0·29	0·2	0·7	49·80	52·87	−2·98	83·1	70·2	Balasore ...	Balasore	
0·04	0·34	−0·30	1·0	0·8	58·43	61·94	−3·51	99·5	84·6	Sangor Island ...	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
Nil	0·31	−0·31	0·0	0·6	40·29	51·07	−4·78	86·4	71·1	Midnapore ...	Midnapore	
Nil	0·30	−0·30	0·0	0·8	53·38	51·16	+2·22	91·0	89·0	Calcutta ...	24-Pergunnahs, Howrah, and Hooghly.	
Nil	0·19	−0·19	0·0	0·5	43·83	46·32	−2·49	83·5	74·8	Burdwan ..	Burdwan	
Nil	0·31	−0·31	0·0	0·6	55·88	51·87	+4·01	82·4	81·2	Bankoora ...	Bankoora	
Nil	0·15	−0·15	0·0	0·8	53·44	51·17	+1·27	84·5	82·4	Ranigunge ...	West Burdwan and Beerbhoom.	
Nil	0·17	−0·17	0·0	0·6	51·15	50·10	+1·05	81·9	78·0	Berhampore ...	Moorshedabad	
Nil	0·18	−0·18	0·0	0·4	51·49	48·79	+2·70	87·2	77·1	Krishnagore ...	Nuddea	
0·06	0·26	−0·20	0·8	0·6	53·39	52·72	+0·67	96·5	83·6	Jessore ...	Jessore and Khoolna ...	
0·42	0·54	−0·12	1·5	0·9	100·02	113·08	−13·06	111·0	106·6	Chittagong ...	Chittagong	EAST BENGAL.
0·68	0·58	+0·10	1·5	1·4	65·13	80·93	−15·80	96·0	113·0	Demagri ..	Chittagong Hill Tracts	
0·24	0·40	−0·16	1·0	0·9	77·82	76·30	+1·52	101·9	104·5	Barrisal ...	Backergunge	
0·26	0·75	−0·49	1·5	1·0	90·29	106·41	−16·12	110·5	106·5	Noakholly ...	Noakholly	
0·02	0·14	−0·12	0·3	0·5	60·32	55·27	+5·05	83·2	85·5	Furreedpore ...	Furreedpore	
Nil	0·26	−0·26	0·0	0·8	74·59	59·18	+15·41	105·0	89·8	Dacca ...	Dacca	
0·02	0·38	−0·36	0·8	0·8	55·45	68·66	−13·21	93·1	95·2	Commillah ...	Tipperah	
Nil	0·22	−0·22	0·0	0·6	87·63	66·93	+20·70	105·2	87·8	Mymensingh ...	Mymensingh	
0·01	0·17	−0·16	0·1	0·6	64·81	56·86	+7·95	101·7	76·7	Bogra ...	Bogra	
0·08	0·14	−0·06	1·0	0·7	55·07	52·95	+2·12	102·0	79·9	Serajgunge ...	Pubna	NORTH BENGAL.
Nil	0·11	−0·11	0·0	0·5	54·30	53·38	+0·92	89·6	76·1	Rampore Beauleah.	Rajshahye	
Nil	0·13	−0·13	0·0	0·6	39·76	53·75	−13·99	73·5	82·2	Maldah ...	Maldah	
Nil	0·19	−0·19	0·0	0·6	57·37	57·02	+0·35	82·9	76·0	Dinagepore ...	Dinagepore	
Nil	0·16	−0·16	0·0	0·5	85·16	73·35	+11·81	85·4	75·6	Rungpore ...	Rungpore ...	
Nil	0·18	−0·18	0·0	0·7	117·13	110·79	+6·34	103·0	96·8	Julpigoree ...	Julpigoree and Cooch Behar.	
Nil	0·33	−0·33	0·0	1·2	132·75	120·49	+12·26	122·8	111·0	Darjeeling ...	Darjeeling Hill Tracts.	
Nil	0·12	−0·12	0·0	0·5	74·71	58·18	+16·53	75·0	68·9	Purneah ...	Purneah and North Bhagulpore.	
Nil	0·12	−0·12	0·0	0·5	48·00	43·88	+5·78	69·8	56·2	Mozufferpore ...	Mozufferpore	NORTH BIHAR.
Nil	0·11	−0·11	0·0	0·5	51·84	44·08	+7·76	65·7	56·5	Durbhunga ...	Durbhunga	
Nil	0·21	−0·21	0·0	0·7	63·55	46·12	+17·43	64·5	52·8	Motihari ...	Chumparun ...	
Nil	0·17	−0·17	0·0	0·6	40·13	42·31	−2·18	58·4	56·1	Chupra ...	Sarun	
Nil	0·38	−0·38	0·0	0·7	46·07	30·39	+0·68	68·4	59·1	Dehree ... Buxar ... Arrah ...	Shahabad	SOUTH BIHAR.
Nil	0·20	−0·20	0·0	0·6	37·07	40·97	−3·90	63·8	55·8	Gya ...	Gya	
Nil	0·16	−0·16	0·0	0·5	43·49	40·75	+2·74	62·9	60·5	Bankipore ...	Patna	
Nil	0·10	−0·10	0·0	0·4	42·43	42·61	−0·18	69·4	64·6	Bhagulpore ...	South Bhagulpore and Monghyr	
Nil	0·14	−0·14	0·0	0·5	54·15	50·42	+3·73	83·1	74·8	Naya Doomka ..	Sonthal Pergunnahs	
Nil	0·31	−0·31	0·0	0·6	44·03	49·86	−5·83	83·8	79·6	Hazaribagh ...	Hazaribagh	CHUTIA NAGPUR.
Nil	0·45	−0·45	0·0	0·9	44·34	48·29	−3·95	82·1	83·8	Ranchee ...	Lohardugga	
Nil	0·22	−0·22	0·0	0·7	38·33	46·44	−8·11	96·5	82·4		Manbhoom	
Nil	0·37	−0·37	0·0	1·3	48·76	50·85	−2·09	100·0	90·5	Chyebassa ...	Singbhoom	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sibsagar... Dhubri .. ... Silchar	Assam ..	ASSAM.

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Orissa ...	Pooree ...	Pooree ...																				
		Khurdah ...																				
		Banpur ...																				
		False Point ...																				
		Gop ...																				
		Pipli ...																				
	Cuttack ...	Jaratsingpore																				
		Banki ...																				
		Cuttack ...																				
		Kendrapara ...																				
		Jajpore ...																				
		Dharmsalla ...																				
		Salipore ...																				
	Balasore ...	Chandbali ...																				
		Bhuddruck ...																				
		Soorah ...																				
		Balasore ...																				
		Jellasore ...																				
		Baripodah ...																				
South-West Bengal.	Midnapore ...	Contai ...																				
		Saugor Island																				
		Tumlook ...																				
		Midnapore ...																				
		Ghatal ...																				
		Kukrahaty ...																				
		Heria ...																				
		Bhagwanpore																				
		Garbeta ...																				
	24-Pergunnahs	Diamond Harbour.																				
		Canning Town																				
		Alipore Jail ...																				
		Barrackpore ...																				
		Dum-Dum ...																				
		Baraset ...																				
		Bussecrhat ...																				
	Howrah ...	Howrah ...																				
		Mohesreka ...																				
		(*Colooberiah*).																				
	Hooghly ...	Serampore ...																				
		Hooghly ...																				
		Jehanabad ...																				
	Burdwan ...	Culna ...																				
		Burdwan ...																				
		Cutwa ...																				
		Raneegunge ...																				
		Mankur ...																				
	Bankoora ...	Bankoora ...																				
		Bishenpore ...																				
		Malara ...																				
		Khatra ...																				
		Indas ...																				
		Kotalpore ...																				
		Anda ...																				
		Gangajalghati																				
		Raipore ...																				
		Sonamukhi ...																				
	Beerbhoom ...	Bh. Soory ...																				
		Hetampore ...																				
		Rampore Haut																				
		Bolpur ...																				
		Murarai ...																				
	Nuddea ...	Ranaghat ...																				
		Kishnaghur ...																				
		Chooadanga ...																				
		Meherpore ...																				
		Koosheo ...																				
	Khoolna ...	Satkhira ...																				
		Bagirhat ...																				
		Khoolna ...																				
		Nakipur ...																				
	Jessore ...	Narail ...																				
		Jessore ...																				
		Jhenidah ...																				
		Magoorah ...																				
		Bongong ...																				
	Moorshedabad	Kandi ...																				
		Berhampore ...																				
		Lalbagh ...																				
		Azimgunge ...																				
		Jungipore ...																				
		Laigola ...																				
		Jugunge ...																				
		Akhriguni ...																				
		Patkabari ...																				
East Bengal	Chittagong ...	Cox's Bazar ...																				
		Chittagong ...																				
		Kutubdia ...																				
		Satkanya ...																				
	Chittagong Hill Tracts.	Rangamati ...																				
		Rama ...																				

in Bengal in December 1889.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st Dec. 1889.	Average rainfall from 1st January up to 31st December.	Station.	District.	Meteorological division.
...	...	...	0·08	0·04	0·09	...	...	...	...	...	3	1·4	0·21	0·73	0·09	80·80	54·68	Pooree ...	Pooree ..	ORISSA.
..	...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·50	Nil	78·86	59·31	Khurdah.		
...	...	...	...	0·14	...	...	...	...	...	...	1	1·7	0·14	1·29	0·14	66·92	52 85	Banpur.		
..	...	...	...	0·65	0·39	...	...	...	..	...	2	1·3	1·04	0 66	0·65	80·33	60 45	False Point.		
...	...	...	...	...	...	...	...	...	..	...	Nil	?	Nil	?	Nil		?	*Gop.*		
												?		?			?	*Pipli.*		
...	...	...	...	...	...	...	..	...	...	...	Nil	1·0	Nil	0·39	Nil	56·40	51·93	Jagatsingpore.	Cuttack.	
...	...	...	...	...	...	...	...	..	..	..	Nil	1·2	Nil	0·81	Nil	54·03	52·31	Banki.		
...	...	...	...	...	...	...	...	...	..	...	Nil	1·4	Nil	0·48	Nil	70·37	58·08	Cuttack.		
...	...	...	...	...	0·26	...	..	...	..	.	1	1·0	0·26	0·48	0·26	74·18	57·10	Kendrapara.		
...	...	...	...	...	...	...	...	...	..	...	Nil	1·0	Nil	0·71	Nil	59·83	60·00	Jajpore.		
...	...	..	...	...	...	...	...	...		...	Nil	?	Nil	?	Nil	61·25	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	74·07	?	*Salspore.*		
...	...	...	...	...	0·12	...	..	...		..	1	0·9	0·12	0·58	0·12	57·54	54·80	Chandbali	Balasore.	
...	...	...	...	...	...	...	...	...	.	..	Nil	0·7	Nil	0·37	Nil	61·43	58·53	Bhuddruck.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·5	Nil	0 13	Nil	49·64	56·88	Sorah.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·9	Nil	0·34	Nil	50·07	60·74	Balasore.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·3	Nil	0·11	Nil	40 73	57 29	Jellasore.		
...	...	...	...	...	...	...	...	...	..	..	Nil	0 8	Nil	0·22	Nil	60·51	60·17	Baripodah.		
...	...	...	...	...	0·05	...	...	...	...	.	1	0·7	0·05	0·34	0·05	57·07	68 04	Contai ...	Midnapore ...	SOUTH-WEST BENGAL.
...	...	...	...	...	0·03	...	...	...	..	..	1	1 1	0·04	0·29	0·03	58·25	74 21	Sangor Island		
...	...	...	...	...	...	...	...	...	.	...	Nil	0·5	Nil	0·26	Nil	52·30	54·45	Tumlook		
...	...	...	...	...	...	...	...	...	..	...	Nil	0·8	Nil	0·28	Nil	55·08	59·58	Midnapore.		
...	...	...	...	...	...	...	...	...	..	..	Nil	0·6	Nil	0·37	Nil	46·39	62·15	Ghatal.		
...	...	...	...	...	...	...	...	...	,	...	Nil	?	Nil	?	Nil	62·97	?	*Kukrahaty.*		
...	...	...	...	...	...	...	...	...	.	.	Nil	?	Nil	?	Nil	67·05	?	*Heria.*		
...	...	...	...	...	...	...	...	...	..	..	Nil	?	Nil	?	Nil	57·09	?	*Bhagwanpore*		
...	...	...	...	...	...	...	...	...	..	..	Nil	?	Nil	0·21	Nil	47·77	57·46	*Garbeta.*		
...	...	...	...	...	0·04	...	...		....	...	1	0·7	0·04	0 27	0·04	60·50	66·66	Diamond Harbour.	24-Pergunnahs	
...	...	...	...	...	0·17	...	..	...	...	...	1	?	0·17	?	0·17	60 88	?	*Canning Town.*		
...	...	...	...	...	...	...	...	...	...	.	Nil	0 9	Nil	0·33	Nil	58 28	63·30	Alipore Jail.		
...	...	...	...	...	...	...	...	...	..	..	Nil	0·6	Nil	0 30	Nil	54·55	56·03	Barrackpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·30	Nil	59·12	59·99	Dum-Dum.		
...	...	...	...	...	...	...	...	...	..	...	Nil	0·3	Nil	0·20	Nil	61·40	58·80	Baraset.		
...	...	...	...	...	...	...	...	...	..	...	Nil	0·6	Nil	0·22	Nil	63·36	62 44	Busserhat.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·27	Nil	64·11	61·36	Howrah	Howrah.	
...	...	...	...	...	...	...	...	..	...	...	Nil	1·0	Nil	0·30	Nil	60·27	60·06	Mohesreka (*Oolooberiah*)		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·27	Nil	58·42	58·29	Serampore ..	Hooghly.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·26	Nil	40·40	59 80	Hooghly.		
...	...	...	...	...	...	0·03	..	..	...	.	1	0·7	0 03	0·19	0·03	45·03	62·54	Jehanabad.		
...	...	...	...	...	...	...	..	..	..	...	Nil	0·3	Nil	0·21	Nil	43·77	52·85	Culna ...	Burdwan.	
...	...	...	...	...	...	...	..	..	...	...	Nil	0·9	Nil	0·17	Nil	49·31	57·19	Burdwan.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0 10	Nil	45 08	55·30	Cutwa.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0 12	Nil	58 26	53·03	Ranegunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50·74	?	*Mankur.*		
...	...	...	...	...	...	...	..	...	...	.	Nil	0·8	Nil	0·17	Nil	53·74	56·41	Bankoora	Bankoora.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·30	Nil	62·54	58·21	Bishenpore		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·23	Nil	?	55·51	Mallara.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·5	Nil	0·46	Nil	63·36	61·18	Khatra.		
...	...	...	...	...	...	...	..	...	...	...	Nil	?	Nil	?	Nil	48·75	?	Indas.		
...	...	...	...	...	...	...	..	...	...	...	Nil	?	Nil	?	Nil	52 91	?	Kotalpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	42·17	?	Anda.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	61 51	?	Gauxajalghati.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	0·22	Nil	60·39	57·49	*Raspore.*		
...	...	...	...	...	...	...	...	...	...	..	Nil	?	Nil	?	Nil	58 02	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	...	..	.	Nil	0·8	Nil	0·16	Nil	61·85	55·88	Bh. Soory	Beerbhoom.	
...	...	...	...	...	...	...	...	...	...	..	Nil	0 6	Nil	0 12	Nil	49·85	55·08	Hetampore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·18	Nil	52·92	56 45	Rampore Haut		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	57·82	?	*Bolpur.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	53·30	?	*Murarai.*		
...	...	...	...	...	...	...	...	...	.	...	Nil	0·3	Nil	0·22	Nil	59·55	55·47	Ranaghat	Nuddea.	
...	...	...	...	...	...	...	...	...	...	.	Nil	0·4	Nil	0 15	Nil	45 48	55·65	Kishnaghur.		
...	...	...	...	...	...	...	...	...	..	...	Nil	0·5	Nil	0·15	Nil	53·90	60 37	Chooadanga.		
...	...	...	...	...	...	...	...	...	..	..	Nil	0·3	Nil	0·18	Nil	07 80	56·28	Meherpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0 19	Nil	59·44	62·11	Koushtea.		
...	...	...	...	...	0·01	...	...	..	.	...	1	0·6	0·01	0·34	0·01	57·00	64·49	Satkhira	Khoolna	
...	...	...	...	...	0·31	...	...	...	...	...	1	0·7	0·31	0·27	0·31	59·10	69·86	Bagirhat.		
...	...	...	...	...	0·18	...	...	...	.	.	1	1·7	0·18	0·32	0·18	59·85	64·79	Khoolna.		
...	...	...	...	...	0·30	...	...	...	...	...	1	?	0·30	?	0·30		?	*Nakipur.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·23	Nil	51·75	54 05	Narail ...	Jessore.	
...	...	...	...	...	...	...	...	...	.	.	Nil	0·6	Nil	0 19	Nil	60·75	67 01	Jessore.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·5	Nil	0·17	Nil	50 71	62 09	Jhenidah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Ni	0 16	Nil	61·89	59·.3	Magoorah.		
...	...	...	...	...	...	...	...	...	..	..	Nil	0·3	Nil	0 34	Nil	46 75	59·47	Bongong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·0	Nil	0·25	Nil	57·97	55·27	Kandi ..	Moorshedabad.	
...	...	...	...	...	...	...	...	...	...	.	Nil	0·6	Nil	0 12	Nil	48·07	55·30	Berhampore.		
...	...	...	...	...	...	...	...	...	..	.	Nil	0 4	Nil	0·10	Nil	50 10	56·32	Lalbagh.		
...	...	...	...	...	...	...	...	...	..	.	Nil	0·4	Nil	0 13	Nil	?	55 35	Azimgunge.		
...	...	...	...	...	...	...	...	...	...	..	Nil	0·8	Nil	0·15	Nil	60 80	53·19	Jungipore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·14	Nil	53·.6	54 54	Lalgola.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	47 49	?	Jaikunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	46·68	?	*Akhriguni.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Patkabari.*		
...	...	...	...	...	0·13	...	...	...	..	..	1	0·9	0·13	0·36	0·13	129·03	143·94	Cox's Bazar	Chittagong ...	EAST BENGAL.
...	...	...	...	0·34	0·37	...	...	...	.	.	2	0·9	0·71	0·57	0·37	84 40	105·57	Chittagong.		
...	...	...	0·02	...	0·03	...	...	...	...	...	2	?	0·05	?	0·03	115 44	?	*Kutubdia.*		
...	...	...	...	0·10	...	...	...	...	...	...	1	?	0·10	?	0·10	64·52	?	*Satkanya.*		
...	...	...	...	...	0·40	...	...	...	...	...	1	1·0	0·40	0·53	0·40	71·38	93·97	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	0·79	0·16	...	..	...	.	...	2	1·8	0·95	0·55	0·79	71 76	89·92	Ruma.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL —*concld.*	Backergunge...	Patuakhally ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Perozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burrisal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gournaddi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banphal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Noakholly ...	Noakholly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Fenny ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hatiskpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore...	Madaripore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Furreedpore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dacca ...	Munshigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dacca ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Narainsunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manicksunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Joydebpore ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tipperah ...	Comilla ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...
		Brahmunberia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandra-pore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nasirnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudkandi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kasba ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mymensingh	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Atia (*Tungail*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamalpore ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Netrokona ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sohornakhally	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durgapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sherpore Town	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dewangany ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BENGAL	Pubna ...	Pubna ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Serajgunge .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogra ..	Sherpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowkhilla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bogra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Panchbibi ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahye ...	Beauleah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nattore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naogaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manda ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...
		Chanchal ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nisbganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dinagepore ..	Mohadebpore ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Churamon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raigunge ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinagepore ...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baloorghat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rungpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kurigram .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagdogra .. (*Nilphamari*).	..	...	...	..	...	...	...	...	...	..	...	.	...	...	...	...	...	...	...	...
		Ulipore ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
	Julpigoree ...	Julpigoree ..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Doar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Falacotta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dohiganj ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhogotpore (*Nagrakatta*).	...	..	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar..	Dinhatta .	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cooch Behar	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mickliguuge	.	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matabhanga .		..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Darjeeling Hill	Buxa ..	..	..	...	...	...	...	0·01	...	...	...	..	...	...	...	...	...	...	...	...	...
		Siliguri .	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Darjeeling ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kalimpong .	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kurseong ..	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BEHAR	Purneah .	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arraeah ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Purneah ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gondwara ..		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore	...	...	...	.	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matiari ..	..	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliagunj ..	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Bhagul pore.	Maddapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soopoi)	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj .		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in December 1889—*continued.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st December 1889.	Average rainfall from 1st January up to 31st December.	Station.	District.	Meteorological division.
...	...	...	...	...	0·05	...	...	...	...	...	1	0·9	0·05	0·45	0·05	91·44	97·21	Patuakhally	Backergunge.	EAST BENGAL—*concld.*
...	...	...	...	...	0·20	...	...	...	...	...	1	0·7	0·20	0·27	0·20	76·52	78·66	Perozepore.		
...	...	...	...	...	0·41	...	...	...	...	...	1	1·0	0·44	0·25	0 41	77·25	79·30	Burrisal.		
...	...	...	...	...	0·27	...	...	...	...	...	1	1·1	0·27	0·47	0·27	85·54	91·90	Bhola.		
...	...	...	...	...	..	...	...	...	...	...	Nil	?	Nil	?	Nil	68·68	?	*Gournaddi.*		
...	...	...	...	...	0·35	...	...	...	...	...	1	?	0·35	?	0·35	97·09	?	*Bauphal.*		
...	...	...	...	...	0·12	...	...	...	...	...	1	0·9	0·12	0·37	0·12	109·68	112·38	Noakholly ...	Noakholly.	
...	...	...	...	...	0·35	0·05	...	...	...	...	2	1·0	0·40	0·24	0 35	89·80	121·67	Fenny.		
...	...	...	...	...	0·39	...	...	...	...	...	1	?	0·39	?	0·39	84 90	?	*Harishpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	92·25	?	*Ramganj.*		
...	...	...	...	...	0·06	...	...	...	...	...	1	0·3	0·06	0·13	0·06	64·31	67·69	Madaripore ...	Furreedpore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·12	Nil	69 89	68·95	Furreedpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·13	Nil	65·19	62·95	Goalundo.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·31	Nil	83·00	85·44	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·21	Nil	80·28	72·97	Dacca.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·34	Nil	84·49	73·40	Narainguage.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·12	Nil	73 11	61·82	Manickgunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	78·48	?	*Joydebpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·39	Nil	56·46	78·61	Agartola ...	Hill Tipperah.	
...	...	...	...	...	0·08	...	...	...	...	...	1	0·9	0·08	0·25	0·08	73·15	92·65	Comilla ...	Tipperah.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·40	Nil	70·91	90·33	Chandpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·26	Nil	61·67	79·90	Brahmunberia.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	65·75	?	*Ramchandra-pore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	89·78	?	*Nasirnagar.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	57·19	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	71·46	?	*Kasba.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	75·45	?	*Laksham.*		
...	...	...	...	...	0·02	...	...	...	...	...	Nil	0·7	Nil	0·30	Nil	81·88	83·34	Kishoregunge.	Mymensingh.	
...	...	...	...	...	...	...	...	...	...	...	1	0·4	0·02	0·49	0·02	70·26	64 01	Atia (*Tangail*).		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·12	Nil	105·55	92·69	Mymensingh.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0 26	Nil	89·30	75·87	Jamalpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·17	Nil	137·71	86 69	Netrokona.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	63·03	?	*Subornakhally.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	162·93	?	*Durgapore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	94·53	?	*Sherepore Town*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Dewanganj.*		
...	...	...	...	0 04	..	...	...	...	...	...	1	0·7	0·04	0·11	0·04	56·71	64·20	Pubna ...	Pubna ...	NORTH BENGAL.
...	...	...	...	...	0·13	...	...	...	...	...	1	0·8	0·13	0·14	0·13	64·46	60·95	Serajgunge. ...		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·22	Nil	60·67	64·17	Sherpore ...	Bogra.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0 16	Nil	66 31	61·99	Nowkhilla.		
...	...	...	...	0·03	...	...	...	...	...	...	1	0·5	0·03	0·12	0 03	73·35	74·69	Bogra.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·18	Nil	68·74	60·49	Panchbibi.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·06	Nil	50·28	58·44	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·11	Nil	63 41	62·24	Nattore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil		Nil	62·29		*Naogaon.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	40·07	?	*Lalpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	46 47	?	*Manda.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·33	Nil	54·80	58·83	Maldah ...	Maldah.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·07	Nil	31·92	58·75	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	43·33	?	*Gajol.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	55·21	?	*Sibganj.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·17	Nil	57 43	60·48	Mohadebpore...	Dinagepore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·15	Nil	56 64	56·64	Churamon.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·14	Nil	50·64	62·33	Kaigunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·10	Nil	70·83	74·54	Dinagepore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·25	Nil	64·74	53 13	Balourghat.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	91·69	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·16	Nil	92·98	68 83	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·12	Nil	61·45	83·76	Kungpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·23	Nil	98·50	86·70	Kurigram.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·19	Nil	94·86	90·57	Bardogra.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	84·66	?	(*Nilphamari,*) *Ulipore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·08	Nil	122·89	128·28	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	133 98	?	*Alipore Doar.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	138·83	?	*Falscotta.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	98·41	?	*Debigang.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	149 62	?	*Bhogotpore* (*Nagrakatta.*)		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·19	Nil	106·61	110·84	Dinaatta		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·10	Nil	130·38	129·86	Cooch Behar...	Cooch Behar.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·16	Nil	128·07	117·82	Mickligunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0 8	Nil	0·13	Nil	126·70	124·33	Matabhanga.		
...	...	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	6·57	Nil	211·45	213·27	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	...	...	...	1	1·0	0·01	0·11	0 01	124·45	106 68	Siliguri. ...		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·21	Nil	138·84	120 01	Darjeeling.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·30	Nil	102 31	88 90	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	Kurseong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·14	Nil	105·02	74·73	Kissengunge ...	Purneah ...	NORTH BENGAL.
...	...	...	...	...	...	...	...	...	...	...	Nil	0 5	Nil	0·09	Nil	82·16	68·36	Arrareah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·15	Nil	60·41	64·16	Purneah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Goodwara.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Baleramporo*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Mattara.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Kalmaganj.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	0 4	Nil		Nil	66·30	53·71	Maddapore ..	North Bhagul-pore	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·05	Nil	71·64	50·60	Soopool.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	0·12	Nil	91·21	?	*Protabganj.*		

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
North Behar —*contd.*	Durbhunga ...	Tajpore ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani ...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	..	...	.	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Roshera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
		Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.
		Para ...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...
		Mahua ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Sitahar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
	Chumparun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah ...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhurwa ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sarun ...	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sewan ...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
South Behar	Shahabad ..	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhubooah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...
		Mohaniah ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
		Sheerghati ..	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.		...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
	Patna ..	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
		Dinapore ...	...	...	...	..	...	..	...	...	...	..	..	..	...	...	...	...	...	...	...	...
		Behar ...	...	...	...	...	...	.	..	...	..	...	..	...	...	...	...	...	...	...	...	...
		Barrh ...	...	...	...	...	.	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bickram ...	...	...	..	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Hulsa ...	...	...	...	.	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ..	Begoosarai ...	...	...	...	...	..	...	...	.	..	...	...	.	...	...	...	...	...	...	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	..
		Gogri ...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	..
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...		...
		Kolgong ...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	.
		Bangaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	.	...	. .	...	...	...	...	...	...	...	...	..
		Pakour ..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...
		Deoghur ...	...	...	.	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...		.	. .	...	...	..	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...
Chutia Nagpur.	Hazaribagh ..	Pachamba (*Giridi*).	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Seuntagurah ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	.	...	...
		Mahudi Hills	...	..	...	...	...	...	...	..	..	...	...	...	...	...	...	. .	...	..	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	.	...	..
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karaydeha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kamghar ...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	..	...	...
	Lohardugga..	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
		Ranchi ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Palamow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ralumat ...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...
		Hosainabad ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	..	...	...	...	..	...	...	..	..	...	...	...	...	...	...	...	...	...	...	..
	Singbhoom ...	Chyebassa ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	.	...	...	...	...
		Ghatsila ...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...
		Baharagura...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ..	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
		Barrabhoom...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...	...	...	...	...	...	...	...	. .	...	.	...	...	...	...		...	...	...	...	.
		Chas ...	.	...	...	...	...	...	..	..	..	..	. .	...	...	...	..	...	...	...	...	...

Bengal for the month of December 1889—*concluded.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1889 up to 31st Dec. 1889.	Average rainfall from 1st January up to 31st December.	Station.	District.	Meteorological division.
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·08	Nil	48·30	45·28	Tajpore ...	Durbhunga ...	North Behar —*concld.*
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·17	Nil	54·01	47·93	Durbhunga.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·07	Nil	66·71	47·85	Madhubani.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	74·47	?	*Bahera.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	60·07	?	*Roshera.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·12	Nil	59·86	46·56	Sitamarhi ...	Mozufferpore.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·08	Nil	53·56	43·99	Mozufferpore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·12	Nil	46·45	44·23	Hajipore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Parw.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Mahua.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Sonhar.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50 00	?	*Pupri.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·15	Nil	76·68	48·26	Motihari ...	Chumparun.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·23	Nil	56·25	51·27	Bettiah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	74·09	?	*Bagaha.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	56·21	?	*Burhurwa.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·17	Nil	40·82	46·26	Gopalgungo...	Sarun.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·14	Nil	48·06	45·65	Sewan.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·09	Nil	44·30	39·65	Chuprah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·21	Nil	50·03	39·40	Buxar ...	Shahabad ...	South Behar.
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·66	Nil	45·31	41·20	Dehree.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·35	Nil	40·21	43·08	Bhubooah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·28	Nil	31·79	42·35	Sasseram.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0 6	Nil	0 14	Nil	45·59	44·95	Arrah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Mohaniah.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·36	Nil	37·38	44·15	Aurungabad...	Gya.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·19	Nil	44·50	41·19	Gya.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·22	Nil	42·93	42·29	Nowadah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·18	Nil	37·23	42·81	Jehanabad.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	37·43	?	*Arwal.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	27·54	?	*Daudnagar.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	31·80	?	*Sheerghati.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	18·27	?	*Rajauli.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	33·75	?	*Pakri Barawan.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·10	Nil	55·38	41·90	Patna ...	Patna.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·18	Nil	49·07	42·50	Dinapore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·13	Nil	45·65	44·28	Behar.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0 3	Nil	0·12	Nil	41·87	42·37	Barrh.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	45·33	?	*Bickram.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	39·66	?	*Hilsa.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·08	Nil	53·28	42·43	Begoosserai ...	Monghyr.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·10	Nil	44·99	45 73	Monghyr.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·09	Nil	43·17	45·16	Jamui.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	66 36	?	*Gogri.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	45·57	?	*Sheikpura.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·09	Nil	48·79	47·70	Bhagulpore ...	South Bhagulpore.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·14	Nil	42·47	45·78	Banka.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50·43	?	*Kolgong.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Bangaon.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·06	Nil	63·06	35·69	Rajmehal ...	Sonthal Pergunnahs.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·13	Nil	53·57	47·89	Godda.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0 5	Nil	0·18	Nil	77·91	60·92	Pakour.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·23	Nil	60 69	57·59	Nya Doomka.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·16	Nil	42·51	52·89	Deoghur.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·14	Nil	47·63	51·79	Jamtara		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	61·28	?	*Mohagama.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Nanikat.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·17	Nil	42·01	50·93	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·32	Nil	51·36	49·79	Hazaribagh.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·32	Nil	39·30	55·23	Semtagurah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0 4	Nil	0 30	Nil	?	50 41	Mahudi Hills.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·33	Nil	45·75	64·64	Jhoomrah Hills		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	33·20	?	*Barhi.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50 39	?	*Chatra.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	42 13	?	*Karagdeha.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Kamghar.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·61	Nil	48·99	52·52	Lohardugga...	Lohardugga.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·21	Nil	53·43	50·18	Ranchi.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0 8	Nil	0·28	Nil	36·56	45 73	Palamow.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Silli.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Balumat.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Hoosnabad.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Garwah.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·35	Nil	50·81	54·96	Chyebassa ...	Singbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	42·37	?	*Chakradharpore.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	60·44	?	*Ghatsila.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	57·57	?	*Baharagura.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·26	Nil	46·40	50·83	Purulia ...	Manbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·19	Nil	35·12	47·35	Gobindpore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	48·98	?	*Raghunathpore.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	47·33	?	*Barrabhoom.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Jhalda.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	?	?	*Chas.*		

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE MONTH OF DECEMBER 1889.

THE normal meteorology in December of Bengal and Assam is usually very simple, and the north-east monsoon conditions are almost always present in a well-marked degree. Temperature generally steadily diminishes, and is decidedly low, while pressure increases and becomes very high; humidity remains low, and there is an almost complete absence of cloud. Rainfall is also usually entirely absent from the province, except when the normal conditions become almost reversed by the occurrence of barometric disturbances which appear over Northern India, and drift in a southerly or south-easterly direction. When such depressions pass through the province, the sky becomes heavily clouded, temperature usually increases, particularly at night, while pressure falls with the advance of the depression. If the depression is at all considerable, general light rain will also usually fall. It is from such actions as these that practically the whole of the rainfall of December in Bengal is in most years received, and from the nature of the case the occurrence of any rainfall at all in this month is uncertain, while its amount is always liable to considerable variation. A second class of disturbances may occur in the form of cyclonic storms in the Bay; but usually in December such storms are generated in the extreme south of the Bay, and they are rarely sufficiently large and intense to affect the weather in Bengal to any considerable extent. If, however, such a storm should happen to advance in a north-westerly direction into the northern half of the Bay, then again the normal weather conditions in Bengal will be practically reversed and will become similar to those described as occurring during the passage of the land-formed storms. In this case, however, the rainfall as a rule will be entirely confined to the southern districts of Bengal, and will not penetrate at all into such districts as Behar.

The average rainfall in Bengal is therefore small in all districts; it is slightly over half an inch in Orissa, about equal to a third of an inch in Chutia Nagpur and East Bengal, and to about a fifth of an inch in South-West Bengal and South Behar; while in North Bengal and North Behar the average fall is even less than a fifth of an inch.

Meteorology of the month.—The chief features in the meteorology of December have been—

1st.—The complete absence of storms of the usual cold-weather type which form in Northern India and advance in a south-easterly direction.

2nd.—The occurrence of two cyclonic storms in the Bay: the first more or less of the usual character, which formed in the south of the Bay and advanced in a westerly direction across the extreme south of the peninsula, while the second was a most abnormal storm. It occurred very much later in the year than cyclonic storms have usually hitherto been formed. It was also formed rather further north than usual, and finally drifted in a north-westerly direction towards the North Madras coast. It was also a very severe storm.

3rd.—The pressures recorded in Bengal were in all cases below the normal, the usual defect averaging about two or three-hundredths of an inch; the defects were generally greatest over an area represented by such stations as Bankipur, Bhagulpur, Burdwan, and Berhampur on the west and Dhubri on the east, where the defect equalled about four-hundredths of an inch.

4th.—Temperature was in excess for the greater part of the month, and the mean temperature for the province of Bengal was about one and-a-half degrees in excess of the normal, while in Assam the excess was larger than two degrees.

5th.—The air was decidedly more moist than usual, the excess in the percentage of humidity ranging up to seventeen per cent. at Jessore.

6th.—Cloud proportion was above the normal in the southern districts and below it over the northern half of the province

7th.—As there were no land-formed or cold-weather storms, there was no general rainfall over the province; but owing to the nature of the second cyclonic storm in the Bay referred to above, moderate showers were received in some of the southern districts of the province

The first half of December was a period during which north-east monsoon conditions were present in Bengal and over the greater part of the Bay in fairly well pronounced degree. In Bengal itself temperature and humidity were low and pressure rather high, while a steady northerly wind current blew over the whole province, the skies were almost cloudless, and rainfall was entirely absent. In the Bay also fine weather was reported during the whole of this period, and there was an almost complete absence of rain along the Madras coast, though at this period rain generally occurs here. On the 16th of December however, conditions commenced to change in the south of the Bay, pressure began to fall along the South Coromandel coast, while elsewhere it was rising, and winds along the Burma coast showed indraught towards a disturbed area in the south of the Bay. It is probable on this day a small cyclonic storm had formed in the extreme south of the centre of the Bay. On the morning of the 17th it had advanced in a westerly direction, and the centre was then probably to the north-east of Trincomalee and east-south-east of Negapatam. On the morning of the 18th the storm had commenced to cross the south of the peninsula, and the centre was at 8 a.m. a short distance to the south-south-west of Negapatam. It afterwards apparently entirely crossed the peninsula. It was a storm in which the winds were of only moderate violence, and squally weather only obtained along the Coromandel coast, but a heavy wave of

rainfall was brought by the storm and gave to the Madras coast and the south of the peninsula general and rather heavy rain, which lasted for several days. The storm, however, was too far distant from Bengal to cause any considerable alteration in the weather, and up to about the 20th of the month the conditions in Bengal remained those of the ordinary north-east monsoon, as previously described. At this time a severe storm was formed in the Bay, the description of which, as given in the weekly report, is as follows:—

On December 21st conditions in Bengal remained unaltered, but skies clouded up heavily over the south of Burma. Drizzling rain commenced over this area, and pressure fell slightly at Diamond Island, while elsewhere it was generally rising. Winds also at the South Burma stations commenced to show distinct indraught towards the south of the Bay and at Diamond Island, instead of the light winds usual at this season, winds had increased to almost a gale. On this day, therefore, it is clear that weather had became very disturbed over the south of the Bay, and it is probable that a cyclonic storm had commenced to form. On the 22nd the area of stormy weather was still quite in the south of the Bay and probably about Longitude 88° E. The storm, therefore, appeared on this day to have drifted in a westerly direction, and probably the centre of the storm was not further north than Negapatam. At this time all the indications appeared to point to the probability that the storm would advance across the extreme south of the peninsula, or even across the north of Ceylon. On the morning of the 23rd, the storm was probably to the east-north-east of Negapatam and at some distance from land, and it was moving slowly in a north-westerly direction. On the 24th it had again advanced in a north-westerly direction, and its centre was probably to the east of Nellore or east-north-east of Madras; while on the morning of the 25th it had come much nearer the land, and its centre was to the south-east of Masulipatam. Even on the morning of the 25th it was apparent that the storm had ceased to intensify, but it was on this date a rather severe storm; but by the morning of the 26th, and particularly from midnight of the 25th, the storm had commenced to fill up rather rapidly. On this date it had become only a barometric depression, but it was accompanied by fairly strong winds, and the position of its centre was decidedly nearer the land than on the previous day, and it was perhaps even a little to the south-west of its previous position. On the morning of the 27th the depression had quite passed inland, the centre crossing the coast apparently between Masulipatam and Nellore during the afternoon or evening of the 26th. The storm in its progress was accompanied by only a moderate barometric depression as indicated by the readings at the coast stations, but it will be observed that the storm centre was at no time very near to any meteorological station while it existed as a severe storm. Decidedly low pressures, however, appear to have been experienced by the vessel *Java* which was involved in the storm. The strength of the winds in the northern half of the storm was decidedly great, and for two days a gale of wind was blowing at some of the ports on the west coast. Certain observations taken on board the S.S. *Java*, which was involved in the storm, also show that hurricane winds and very severe weather accompanied the northern half of the storm, but winds in the southern half appear to have been comparatively feeble The rainfall in connection with the storm at the land stations was also only moderate.

As is usually the case, directly a rather severe storm is formed in the Bay, weather conditions commenced to change in Bengal. Temperature at first began to rise slowly, but from about the 23rd or 24th, when the skies had clouded over quickly, the night temperatures rose very rapidly and became very high. The storm in its north-westerly advance apparently also caused a wave of moist winds from the sea to advance over Bengal, and on about the 24th at many stations the sky was almost overcast, while humidity as well as temperature was high. In Orissa and South-East Bengal, and in parts of South and even North Bengal, so much moisture was thus brought up that light showers commenced to fall at a few stations, and dull and rather gloomy weather obtained for some days At this period, therefore, the general conditions were almost the reverse of normal north-east monsoon weather, but with the gradual breaking up of the storm on the 26th, and with its disappearance inland on the 27th, conditions had begun slowly to improve again in Bengal on the 26th and 27th of the month, and at the close of the month again fine weather with almost cloudless skies, rather rapidly reducing temperature with fairly low humidity, an increasing pressure, and complete absence of rain again obtained; or, in other words, again normal cold-weather conditions had set in over the province.

Pressure.—The variations of pressure during the month were not of any great importance. The mean pressure at the commencement of December varied from a twentieth to a tenth of an inch below the normal. During the second week of the month, when the cold-weather conditions were present rather strongly, the mean pressure became almost normal, and this continued to be the case up till the last week, when the conditions generally became influenced by the existence of the severe storm in the Bay, when pressure was again in distinct defect of the normal. For the whole month, therefore, the mean pressure has been generally below the normal by amounts varying from two to four-hundredths of an inch. The largest defects were generally registered at Bhagulpur, Bankipur, Burdwan, Bankoora, and Berhampore, in the western districts of the province, and at Dhubri in Assam, and at Chittagong in the eastern districts; but even in these cases the defects do not exceed four-hundredths of an inch.

Temperature.—The temperature variations during the month have been rather large. At the commencement the mean temperature was nearly normal; for the second week a general

defect of about a degree was registered, but in South-West Bengal there was a defect of about three degrees. In the third week the mean temperature had become almost normal, but in the fourth week, owing to the influence of the disturbed conditions brought about by the storm in the Bay, a very rapid increase in the night temperatures took place, and temperature generally became rather largely in excess of the normal; the excess in South-West and East Bengal and in South Behar averaging from five to six degrees. For the whole month, therefore, the average mean temperature has been above the normal, the excess ranging from about one degree in Orissa and South-West Bengal to nearly two degrees in East and North Bengal, while in Assam the excess is larger than two degrees. The general variation of temperature from the normal during the month is best shown by the following table, which gives the variations of the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province from the normal values, week by week, throughout the month:—

Stations.	Week ending 6th December 1889.			Week ending 13th December 1889.			Week ending 20th December 1889.			Week ending 27th December 1889.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack	−2·8	−0·6	−0·9	−0·5	−3·9	−1·7	−1·8	−3·2	−2·0	+1·2	+7·8	+4·5
Calcutta	−0·9	−1·3	−1·1	−1·5	−4·2	−2·9	−0·9	−1·7	−1·3	+3·0	+8·0	+5·5
Dacca	−1·7	+1·3	−0·3	−1·6	−2·6	−2·1	−0·2	+0·9	+0·4	+3·9	+6·3	+5·1
Burdwan	−0·9	+0·1	−0·4	−1·6	−3·4	−2·5	−0·9	−1·2	−1·1	+3·6	+8·3	+6·0
Patna	+0·9	+0·4	+0·6	+0·2	−1·9	−0·9	+0·2	−0·6	−0·3	+4·0	+5·0	+4·4
Gya	+0·8	+1·2	+1·0	+0·6	+1·2	+0·8	+0·2	−0·9	−0·4	+3·2	+3·9	+3·5
Purneah	−1·1	+1·4	+0·1	−2·5	−1·5	−2·1	−1·6	+2·5	+0·4	+2·2	+5·0	+3·6
Hazaribagh	+1·6	−0·4	+0·6	+0·4	−2·0	−0·8	+1·0	−0·6	+0·2	+3·2	+4·8	+3·9
Darjeeling	+2·7	+2·8	+2·7	+2·6	−0·3	+1·1	+5·4	+1·9	+3·6	+7·9	+1·7	+4·8

Rainfall.—As previously stated, rain occurred towards the end of the month in some of the southern districts in connection with a wave of moist winds brought up by the storm in the Bay. The only districts, however, which received any rainfall of importance were the Pooree district in Orissa and the Chittagong, Chittagong Hill Tracts, Backergunge, and Noakholly districts of East Bengal. A few showers were also received in the following districts:—Cuttack, Khoolna, and Pubna. The falls in East Bengal generally averaged 0·15 inch and in Orissa 0·12 inch, but elsewhere they were of no importance.

The following table gives in a condensed form the summary of the rainfall information in Bengal for the whole year. It gives a comparison between the actual monthly and total rainfall of the year, with the normal values in each of the seven meteorological divisions of Bengal; the actual falls being expressed as percentages of the normal amounts. From these figures it will be seen that all the districts, except Chutia Nagpur, have received good falls during the year, while in Chutia Nagpur there has been a defect of 17 per cent.:—

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Actual rainfall of the year 1889 expressed as a percentage of the normal fall for the period.
Orissa ...	16	120	18	26	75	123	90	117	55	150	835	22	111
South-West Bengal	182	122	35	62	55	140	84	71	90	112	1,523	5	98
East Bengal ...	79	81	20	86	67	113	92	94	89	133	335	42	96
North Bengal ...	553	170	10	46	40	126	120	85	117	44	713	6	101
North Behar ...	480	260	23	40	43	162	130	87	147	8	400	Nil	118
South Behar ...	339	291	73	14	57	143	94	94	114	40	365	Nil	104
Chutia Nagpur ...	121	122	47	130	45	122	77	76	72	71	439	Nil	83

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of December 1889 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month			Rainy days.			Since 15th May 1889.	
	Highest observed during month	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month.	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	84·9°	50·5°	79·3°	58·7°	69·0°	+0·9°	0·13	0·55	−0·43	0·6	1·1	−0·5	62 01	53·08
South-West Bengal	82·1	48·4	77·4	56·8	67·1	+0·8	0·01	0·21	−0·20	0·2	0·6	0·4	52·37	51·49
East Bengal	84·6	53·4	77·9	58·5	68·2	+1·7	0·15	0·36	−0·21	0·6	0·8	−0·2	75·53	73·72
North Bengal	81·4°	48·1°	77·9°	55·1°	66 5°	+1·8°	0·01	0·17	−0·16	0·1	0·6	−0·5	73·13	70 09
North Behar	79·9	44·9	75·8	52·2	64·0	+1·5	Nil	0·14	−0·14	0·0	0·5	−0·5	57·66	48·19
South Behar	81·8	44 6	76·3	51·4	63 9	+1·6	Nil	0·20	−0·20	0·0	0·5	−0·5	44·16	43·30
Chutia Nagpur	77·0°	43·7°	73·1°	50·0°	61·6°	+1·1°	Nil	0·34	−0·34	0·0	0·8	−0·8	43·08	48·91
Assam	84·6	45·6	77·0	56·7	66·9	+2·2								

* Pooree, Julpigoree, and Chyebassa not included.

Meteorological Office, Bengal,
The 14th January 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	30·083	30·046	?	N	151	?	?	54·4	4 & 9 Jan.	?	57·3	?	?	64·1
		Gopalpore	30·026	30·076	—·048	NNW	213	81·7	4th Jan.	60·0	4 & 5 ,,	79·6	61·4	70·5	+6·4	65·4
		False Point	30·023	30·040	—·063	NW	120	80·4	7th—9th Jan.	63 0	4th ,,	79·0	57·3	68·2	—0·1	63·4
	Cuttack	Cuttack	29·984	30·069	—·038	Calm	21	83·3	7th, 9th, 10th Jan.	55·0	4th ,,	82·1	58·8	70·5	—1·1	63·5
	Balasore	Balasore	30·005	30·067	—·051	NNW	124 6	81·3	7th, 9th Jan.	53·3	4th ,,	79·5	55·8	67·7	+0·8	61·7
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Sangor Island	30·023	30·080	—·061	North-westerly.	147	77·2	7th ,,	57·9	9th, 10th Jan.	75·3	59 D	67·6	+0·5	64·6
	Midnapore	Midnapore	29 898	30·057	—·071	N	31·7	82·3	5th ,,	54·2	9th, 10th Jan.	80·2	56·8	68·5	+2·7	61·6
	24-Pergunnahs / Howrah / Hooghly	Calcutta	30·026	30 049	—·071	N	51	78·5	9th ,,	55·3	9th ,,	76·9	57 2	67·0	+1·8	61·2
	Burdwan	Burdwan	29·935	30·041	—·085	North-westerly.	30 9	80·5	8th ,,	53 7	9th ,,	78 8	57 4	68·1	+2·4	60·9
	Bankoora	Bankoora	29·717	30·039	—·074	W	50	80·1	8th ,,	53·3	9th ,,	78·3	56 6	67 5	+2·3	59·5
	Beerbhoom / West Burdwan	Raneegunge	29·716	30·069	—·064	W	45·4	80·7	6th ,,	54·4	9th ,,	79·1	56·8	67·9	+2·7	60·3
	Moorshedabad	Berhampore	29·971	30·043	—·081	NW	40·2	79·1	7th ,,	55·7	9th ,,	77·3	57·0	67·2	+2·6	59·6
	Nuddea	Krishnaghur	30·000	30·070	—·048	WNW	50·9	80·3	7th ,,	53·2	9th ,,	78·9	55·1	67·0	+2·4	61·3
	Jessore / Khoolna	Jessore	30·010	30·035	—·070	Calm	22·9	79·7	7th ,,	57·9	9th ,,	78 7	59·1	68·9	+4·1	61·2
	Chittagong	Chittagong	29 930	30·044	—·059	Calm & W	33·6	80·1	5th ,,	55·6	7th ,,	79 2	60·2	69 7	+4·0	63·3
East Bengal.	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·022	30·035	—·053	Calm	28·2	79·3	8th Jan.	56·1	4th ,,	77·7	59 9	68·8	+5 1	64·5
	Noakholly	Noakholly	30·005	30·051	—	Variable	53·3	79·0	7th & 10th Jan.	50·0	8th ,,	77·9	57·9	67·9	—	65·8
	Furreedpore	Furreedpore	30·005	30 047	—·048	Calm	39	74 0	4, 5, 8, 10 Jan.	57·5	9th ,,	73·6	58·2	66·0	+2·8	61·9
	Dacca	Dacca	30·004	30 028	—·077	Variable	67·9	81·1	5th ,,	55·8	9th ,,	79·5	58 4	69 0	+3·1	63·2
	Tipperah	Commillah	30·017	30·054	—·041	SE	30·7	80·9	5th ,,	56·5	8th ,,	79·0	58·4	68·7	+4·6	64·3
	Mymensingh	Mymensingh	29 982	30·013	—·055	ENE	55·0	76·9	5th ,,	60·5	10th ,,	75·3	61·5	68·4	+3·3	62·0
North Bengal.	Rogra	Rogra	29·935	30·022	—·064	Calm	24·9	80·8	5th ,,	55·3	4th ,,	77·6	56·5	67·0	+2·1	59·8
	Pubna	Serajgunge	29·984	30·033	— 067	SSE	23·4	81·4	5th ,,	56·0	4th ,,	78·3	56·7	67·5	+4·8	61·0
	Rajshahye	Rampo Boalleah	29 902	30·036	— 059	N	53·7	78·9	5th ,,	55·2	4th ,,	77·2	56·7	66 9	+3·3	60·3
	Maldah	Maldah	29·971	30·057	—	NW	61·9	80·0	5th ,,	53·5	9th ,,	78·8	55·7	67·3	—	62·4
	Dinagepore	Dinagepore	29·925*	30·053	— 033	NE	55	80·1	5th ,,	55 2	4th, 7th, 10th Jan.	77·8	56·1	67 0	+4·6	61·3
	Rungpore	Rungpore	29 937	30 009	—·078	E	28	80·0	5th ,,	52·7	4th ,,	77·3	55·9	66·6	+5·5	61·7
	Julpigoree / Cooch Behar	Julpigoree	29·755	30 060	—·086	North-erly.	21·5	?	8th ,,	55 4	4th ,,	?	58·7	?	?	60·1
	Darjeeling Hill Tracts	Darjeeling	23·989	—	—	WSW	02·1	53·7	4th & 5th Jan.	35·0	4th ,,	53·4	37·7	45·5	+4·7	40·8
	Purneah / North Bhagulpore	Purneah	29·917	30·052	—·070	Calm	26·4	77·7	8th ,,	50·0	4th ,,	74 3	52·2	63·2	+2·3	56·3
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·890	30·060	—·061	WNW	34	78·9	6th Jan.	54·0	9th ,,	76·5	53·3	65·1	+4·3	58·1
	Chumparun	Motihari	29·825	30·070	—·039	Variable	76·2	?	.....	43·9	5th ,,	?	50·1	?	?	55·0
	Sarun	Chupra	Observations incomplete.													
South Behar.	Shahabad	Dehree	29·717	30·097	—·045	SW	116·0	77·9	9th Jan.	49·5	9, 10 ,,	76·6	52·8	64·7	+4·0	58·7
		Buxar	29·821	30 085	—·040	WNW	50·8	76 9	6th ,,	48·9	8th ,,	7 ·1	51·5	6·9	+2	56·1
		Arrah	29·871†	30 080†	—·032†	Calm	47·2	78·0	5th ,,	49·3	9th ,,	76·1	51·7	63·9	+4·0	55 8
	Gya	Gya	29 682	30·087	—·047	S	103·9	77·9	7th ,,	50·4	9th ,,	76 6	52·7	64·7	+1 7	57·4
	Patna	Bankipore	29 879	30·076	—·068	SW	19·5	77·5	6th ,,	50·2	8th ,,	75 6	51·5	61·5	+3·9	57·8
	South Bhagulpore / Monghyr	Bhagulpore	30·883	30 035	—·060	Calm & WNW	43	79·1	6th ,,	53·0	9th ,,	76·7	54·6	65·6	+4·4	58 7
	Sonthal Pergunnah	Doomka	29·533	30 064	—	NNW	48·3	78·6	6th ,,	51 9	9th ,,	76·9	54·8	65·8	—	59·1
Chutia Nagpur.	Hazaribagh	Hazaribagh	27 903	30 092	—·045	Variable	117·6	74·3	10th ,,	50·3	9th ,,	72·9	51·0	61 4	+1·7	58·7
	Lohardugga / Manbhoom	Ranchee	27·854	30 078	—·054	Calm	92·5	76·0	8th ,,	47·9	8th ,,	73·1	50 9	62·0	+1·5	57·4
	Singhbhoom	Chyebassa	29·282	30·058	—	SSW	23·8	81·5	8th ,,	40·8	10th ,,	75·9	53·1	66·0	—	60·3

* Means of six days. | † Means of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last [illegible] years. *Humidity* of the atmosphere is expressed as percentage saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number of [illegible] numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past [illegible] stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 10th of January 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. OF WEEK. Mean for district.	Normal mean.	RAINFALL. Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 1st May 1889. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station	DISTRICT.	METEOROLOGICAL DIVISION
83	0·6	Nil	Nil	0·01	Nil	0·02	−0·02	74·88	55·19	+19 69	0·0	0·1	Pooree	Pooree	ORISSA.
77	0 1	Nil											Gopalpore		
88	1·0	Nil											False Point		
75	1·4	Nil	Il	0·04	Nil	0·04	−0·04	66 24	51 50	+14·65	0 0	0·1	Cuttack	Cuttack	
88	0	Nil	Nil	0·05	Nil	0·10	−0 10	49 89	52 70	−2·81	0·0	0·1	Balasore	Balasore	
93	0·1	Nil	Nil	0·00	Nil	0·09	−0 09	58 43	62 10	−3·67	0 0	0·1	Saugor Island	South-West Midnapore	NORTH-WEST BENGAL.
														South 24-Pergunnahs	
79	0 9	Nil	Nil	0 09	Nil	0·18	−0 16	46 29	51 23	−4 94	0·0	0·2	Midnapore	Midnapore	
92	0 9	Nil	Nil	0·08	Nil	0 15	−0 15	53 38	51·33	+2·05	0·0	0 2	Calcutta	24-Pergunnahs ...	
														Howrah	
														Hooghly ...	
76	1 4	Nil	Nil	0·07	Nil	0 07	−0 07	47 83	46·38	−2·55	0·0	0·2	Burdwan	Burdwan ...	
82	0·9	Nil	Nil	0 07	Nil	0 07	−0 07	55 88	52·36	+3 52	0·0	0·2	Bankoora	Bankoora ...	
80	1 7	Nil	Nil	0 10	Nil	0·10	−0 10	52 44	51 28	+1 16	0·0	0·2	Ranegunge	Beerbhoom ...	
														West Burdwan ...	
95	0	Nil	Nil	0·10	Nil	0·10	−0 10	51·15	50·12	+1·03	0·0	0 2	Berhampore	Moorshedabad	EAST BENGAL.
88	0 1	Nil	Nil	0 07	Nil	0 08	−0 08	51 49	48 97	+2·52	0 0	0·2	Krishnaghur	Nuddea	
93	0·7	Nil	Nil	0 07	Nil	0 11	−0·11	53 39	53 78	+0 61	0 0	0 2	Jessore	Jessore	
														Khoolna	
93	3·1	Nil	Nil	0 00	Nil	0 08	−0 08	100 02	113 10	−13·08	0 0	0·2	Chittagong	Chittagong	
			Nil	0 13	Nil	0 15	−0 15	65 13	80·78	−15·65	0·0	0 3	Demagiri	Chittagong Hill Tracts	
93	0·3	Nil	Nil	0·19	Nil	0 24	−0 24	77 82	76 56	+1 26	0·0	0 3	Barrisal	Backergunge ...	EAST BENGAL.
91	0	Nil	Nil	0 19	Nil	0 37	−0 37	90·29	106 20	−15 91	0·0	0 3	Noakholly	Noakholly ...	
95	1·4	Nil	Nil	0·07	Nil	0 10	−0·10	60 32	55 51	+4 81	0 0	0 2	Furreedpore	Furreedpore	
93	1 1	Nil	Nil	0·08	Nil	0 10	−0·10	74·59	59 33	+15·26	0 0	0 2	Dacca	Dacca	
90	1·0	Nil	Nil	0·16	Nil	0 21	−0·21	55 45	69 03	−13·58	0·0	0 3	Commillah	Tipperah ...	
94	2 6	Nil	Nil	0 08	Nil	0·09	−0 09	87·65	67 30	+20 35	0 0	0 2	Mymensingh	Mymensingh	
93	0	Nil	Nil	0 05	Nil	0·06	−0 06	64 61	56·99	+7 62	0 0	0 2	Bogra	Bogra	
96	0 4	Nil	Nil	0 06	Nil	0 07	−0 07	55 07	52 96	+2 11	0 0	0 2	Serajgunge	Pubna	
90	0	Nil	Nil	0 16	Nil	0·16	−0·16	54 30	53 48	+0 82	0·0	0 2	Rampore Beauleah	Rajshahye ...	NORTH BENGAL.
88	1 0	Nil	Nil	0 09	Nil	0 09	−0 09	39 76	53 84	−14 08	0 0	0 2	Maldah	Maldah ...	
89	1 1	Nil	Nil	0 05	Nil	0·05	−0·05	57·37	56 65	+0 72	0·0	0 2	Dinagepore	Dinagepore ...	
93	0 6	Nil	0·02	0·19	0 02	0 09	−0 07	85 18	73 81	+11 37	0 2	0 2	Rungpore	Rungpore ...	
89	2 7	0·03	0 00	0 02	0 06	0 02	+0·04	117 19	111 22	+5 97	0 6	0 1	Julpigoree	Julpigoree ...	
														Cooch Behar ...	
84	5 4	0 16	0 22	0 08	0 24	0·11	+0·13	133 97	120·37	+13 60	1 5	0·3	Darjeeling	Darjeeling Hill Tracts	
94	0 4	Nil	Nil	0·03	Nil	0 07	−0·07	74 71	56 21	+16 50	0 0	0·2	Purneah	Purneah ...	
			Nil	0 10	Nil	0 12	−0·12	48 66	42 73	+5 93	0·0	0 2		North Bhagulpore	
90	0	Nil	Nil	0 00	Nil	0·12	−0·12	51 84	44 16	+7·68	0·0	0 1	Mozufferpore	Mozufferpore ...	NORTH PEHAR.
90	0	Nil	Nil	0·05	Nil	0 06	−0 06	63 55	46 19	+17 36	0 0	0·1	Durbhunga	Durbhunga	
			Nil	0 06	Nil	0 06	−0 06	40 13	42 27	−2·14	0 0	0 2	Motihari	Chumparun	
82	0	Nil											Chupra	Sarun ...	
83	0·1	Nil	Nil	0 06	Nil	0 08	−0 08	40·07	39 68	+0·39	0·0	0 2	Dehree		
84	1·0	Nil											Buxar	Shahabad	
													Arrah		
75	0 6	Nil	Nil	0 07	Nil	0 10	−0 10	37·07	40 99	−3 92	0·0	0·2	Gya	Gya	SOUTH BEHAR.
85	0	Nil	Nil	0·07	Nil	0·10	−0 10	43·49	40 88	+2 61	0 0	0 2	Bankipore	Patna ...	
89	0 6	Nil	Nil	0 16	Nil	0 00	−0 06	42 43	43·14	−0 71	0 0	0 2	Bhagulpore	South Bhagulpore	
85	0	Nil	Nil	0 09	Nil	0·09	−0 09	54·13	50 45	+3 73	0·0	0·2	Doomka	Monghyr ...	
73	1·4	Nil	Nil	0 19	Nil	0 19	−0 19	43 03	50 30	−7·27	0·0	0 3	Hazaribagh	Southal Pergunnahs	
71	0 3	Nil	Nil	0 20	Nil	0 20	−0·20	44 34	48 84	−4·50	0·0	0 3		Hazaribagh	CHUTIA NAGPUR.
			Nil	0 09	Nil	0 00	−0 09	38 33	46 54	−8·21	0·0	0 2	Ranchi	Lohardugga	
														Manbhoom	
74	0 7	Nil	Nil	0·09	Nil	0·12	−0·12	48 76	50 90	−2·14	0·0	0·2	Chyebassa	Singbhoom ...	

...n years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
...nuoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
...7 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of January 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1889.	Average rainfall from 16th May to date
			Saturday, 4th January 1890.	Sunday, 5th January.	Monday, 6th January.	Tuesday, 7th January.	Wednesday, 8th January.	Thursday, 9th January.	Friday, 10th January.	Number of rainy days.	Rainfall of week.				
Orissa ..	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	80·65	51·08
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	70·57	56·25
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	65·50	48·85
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	76·80	63·27
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli											?		?
	Cuttack	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	73·97	46·78
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	52·43	49·32
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	73·18	54·03
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	72·03	52·78
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	57·64	53·14
		Dharmsala	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore .	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	54·64	52·03
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	57·66	51·32
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	46·05	50·87
		Balasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	46·61	57 84
		Jellasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	39·59	58·43
		Rampodah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	54·79	53·64
South-West Bengal.	Midnapore ..	Contai .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	55·13	61·06
		Saugor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	58·74	66·76
		Tumlook ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	49·40	50 89
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 19	46·26	48·51
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	43 19	51 20
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·65	?
		Hersa ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·06	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·73	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	63·41	58·03
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·80	
		Alipore Jail ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	51·80	55·46
		Barrackpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	51 79	49·82
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·58	51·31
		Barasat .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	57·61	49·82
		Buserhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 12	60·92	54·24
	Howrah .	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	59·12	51·32
		Mohesreka (*Oolobersah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	54·64	51·72
	Hooghly	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	55·27	49·80
		Hooghly ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	56·92	47·84
		Jehanabad ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	41·16	54·70
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	41·32	45·96
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	47·07	49·64
		Cutwa .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	43·11	47·51
		Raneegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	55·83	48·76
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·71	?
	Bankoora ..	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	50·79	51·19
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	57·49	51·86
		Mallara ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06		51·64
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	65·91	53·34
		Indas .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·44	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Baipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·33	?
	Beerbhoom	Bh. Soory ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	59·06	53·30
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	47·07	53·91
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	47·76	51·7
		Baipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·97	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea .	Ranaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	55·80	46·6
		Kishnaghur ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	42·95	45 8
		Chooadanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	49·81	50·7
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	53·05	47·30
		Kooshtea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	55·91	54·1
	Khoolna .	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	52·51	54 8
		Bagirhat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·00	60·9
		Khoolna .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	55·78	54·37
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	49·47	45·4
		Jessore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	62·35	53·57
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	50·56	53·0
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 06	56·48	48 9
		Bongong ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	46·01	51·44
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	55·38	50·7
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·16	50 9
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	47·13	50·29
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13		50·7
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	55·01	48·7
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	59·09	50·5
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·25	?
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·81	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ..	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	123·80	135·1
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	76·42	93·7
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Sitakunya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·66	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	63·04	83·3
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	67·20	79·2
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	87·20	87·2
		Perozepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	73·16	69·3
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	72·03	67·2
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	79·26	81·1

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of January 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 4th January 1890.	Sunday, 5th January.	Monday, 6th January.	Tuesday, 7th January.	Wednesday, 8th January.	Thursday, 9th January.	Friday, 10th January.	Number of rainy days.	Rainfall of week.				
EAST BENGAL —*concld.*		*Gournaddi* ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·31	?
		Baupàal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	92·89	?
	Noakholly ...	Noakholly .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	102·17	107·45
		Fenny .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	75·38	100·38
		Harishpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	82·96	?
		Ramganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	96·75	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	60·85	55·10
		Furreedpore..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	69·80	55·95
		Goalundo .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	56·29	52·66
	Dacca ...	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	76·33	69·65
		Dacca ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	78·69	68·15
		Narainguage	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	80·36	59·51
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	67·89	49·70
		Jaydebpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·81	?
	Hill Tipperah	Agartola ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	44·08	61·12
	Tipperah ...	Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	62·17	75·63
		Chandpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·82	75·44
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	50·68	61·17
		Ramchandra-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·14	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·59	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·20	?
		Kasba ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·41	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·09	?
	Mymensingh..	Kishoreegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	69·56	69·76
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	61·00	55·09
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	96·55	73·71
		Jamalpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	85·14	64·81
		Netrokona ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	123·93	72·64
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·08	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·09	?
		Dewanganj .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·31	?
NORTH BENGAL.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	49·87	53·38
		Serajgunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	50·26	52·45
	Bogra ...	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	62·06	57·11
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	60·98	53·90
		Bogra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	70·63	60·28
		Panchbibi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	64·96	56·43
	Rajshahye ...	Beauleah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·20	52·65
		Nattore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	58·84	54·53
		Naogaon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	57·87	50·76
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·72	?
		Manda .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	50·53	51·37
		Chanchal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	28·96	50·29
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·77	?
	Dinagepore ...	Mohadeopore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	53·63	55·93
		Churamon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	51·81	51·93
		Raigunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	52·25	57·27
		Dinagepore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	67·84	63·06
		Balooghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	61·23	50·95
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·47	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	57·53	51·40
		Rungpore ...	.....	.....	0·09	.....	.....	.....	.....	1	0·09	0·09	0·11	74·50	74·07
		Kurigram ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	90·97	73·88
		Hardeora (*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	87·69	84·74
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·00	?
	Julpigoree ..	Julpigoree ...	.....	.....	.....	0·05	.....	.....	.....	1	0·05	0·05	0·03	123·33	116·48
		Alipore Duor	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·18	?
		Fallacotta ...	.....	.....	.....	0·20	.....	.....	.....	1	0·20	0·20	?	127·63	?
		Debipany ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·93	?
		Bhagalpore (*Nagrakatta*).	.....	.....	0·12	0·22	0·08	.....	.....	3	0·42	0·42	?	138·03	?
	Cooch Behar	Dinhatta .	.....	.....	0·19	.....	.....	.....	.....	1	0·19	0·19	0·03	98·19	95·78
		Cooch Behar .	.....	.....	.....	0·05	.....	.....	.....	1	0·05	0·05	0·02	125·39	117·88
		Mekhligunge .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	121·37	105·21
		Mathabhanga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	117·68	111·17
	Darjeeling Hill.	Buxa ..	.....	.....	.....	0·10	0·41	.....	.....	2	0·51	0·51	0·23	191·00	191·94
		Silliguri ..	.....	.....	.....	.....	0·03	.....	.....	1	0·03	0·03	0·01	120·74	102·53
		Darjeeling ..	.....	.....	.....	.....	0·01	0·13	.....	2	0·14	0·16	0·11	123·03	109·23
		Kalimpong .	.....	.....	.....	.....	0·16	.....	.....	1	0·16	0·16	0·01	81·52	82·17
		Kurseong ...	.....	.....	.....	0·12	0·36	0·15	.....	3	0·63	0·63	?	168·98	?
NORTH BEHAR	Purneah ...	Kissengunge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	102·37	69·90
		Arrareah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	79·01	63·37
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	63·45	61·19
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Mazari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Kaliaganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	North Bhagul-pore.	Maddapore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	60·85	40·14
		Scopool ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	67·26	47·75
		Prutabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·85	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	42·44	42·76
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	50·01	45·36
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	63·14	44·47
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·96	?
		Koshera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	55·06	42·69
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	48·41	41·91
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	42·52	41·31
		Pare ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·69	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·02	?
		Sushar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·00	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of January 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 4th January 1890.	Sunday, 5th January.	Monday, 6th January.	Tuesday, 7th January.	Wednesday, 8th January.	Thursday, 9th January.	Friday, 10th January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since latest month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.. ..	.. ..	... ..	Nil	Nil	Nil	0·06	74·79	44·24
		Bettiah ...	.....	. ....	... ..	... ..	... ..	. . ..	... .	Nil	Nil	Nil	0·05	52·29	47·54
		Bagaha ...	.....	.... .	.....	.....	. ....	.....	.....	Nil	Nil	Nil	?	66·87	?
		Harharwa .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Saran ...	Gopalgunge .	... ..	... .	.....	.....	.....	. ....	.....	Nil	Nil	Nil	0·04	35·46	42·77
		Dewan .	. ..	.....	.....	. ....	.....	.....	.....	Nil	Nil	Nil	0 07	41·20	41·30
		Chuprah ...	. . .	.....	.....	.. ...	.....	... ..	... ..	Nil	Nil	Nil	0·09	40·75	40·02
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	47·45	37·95
		Dehree .	.. ..	.....	.....	.....	.....	... ..	... ..	Nil	Nil	Nil	0·04	42 05	39·35
		Bhaloosh ...	.....	.....	... ..	.....	.....	... ..	.. ..	Nil	Nil	Nil	0 07	38·16	40·35
		Nasseram ..	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·08	29·41	40·29
		Arrah ...	.....	.. ..	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·09	42·09	39·78
		Mohaniah ...	.....	.....	.....	.....	.....	.. ..	. ....	Nil	Nil	Nil	?	?	?
	Gya .	Aurungabad .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	35·42	42·36
		Gya ...	.. ..	.....	... ..	.....	.....	.....	... ..	Nil	Nil	Nil	0·07	39 85	42·14
		Nowadah ...	.....	.....	.....	.....	. ....	.....	.....	Nil	Nil	Nil	0·08	39·50	39·47
		Jehanabad ...	.....	.....	.....	.....	... ..	.....		Nil	Nil	Nil	0·15	33·40	39 58
		Arwal ...	.....	....	.....	... ..	... ..	.....	. ..	Nil	Nil	Nil	?	34·34	?
		Daudnagar .	.....	.....	.....	.....	.....	.....	. ..	Nil	Nil	Nil	?	26·69	?
		Sherghatti ...	. . ..	.....	.....	.....	.....	.. ..	.....	Nil	Nil	Nil	?	29·29	?
		Rajauli .	.....	.....	... ..	.....	.....	.. ...	.....	Nil	Nil	Nil	?	17·92	?
		PakriBarawan	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna ...	Patna ...	.....	.....	.....	.....	... ..	....	.....	Nil	Nil	Nil	0·12	51·49	41·55
		Dinapore ..	.....	.....	.....	.....	... ..	.....	... ..	Nil	Nil	Nil	0·09	45·53	41·98
		Behar ...	.....	... ..	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·09	41·08	41·41
		Barrh ...	.....	.....	...	.....	... ..	.....	.....	Nil	Nil	Nil	0·09	35·84	39·44
		Bikram ...	.....	. ...	.....	... ..	.....	.....	.....	Nil	Nil	Nil	.	43·28	?
		Hilsa ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	35·21	?
	Monghyr ...	Begoosorai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	47·02	39 09
		Monghyr .	.....	.....	... ..	. ....	.....	. ....	.....	Nil	Nil	Nil	0·07	41·07	46·16
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 05	39·48	42 41
		Gogri ...	. . ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·33	?
	South Bhagulpore	Bhagulpore ...	.....	... ..	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·04	45 06	41·80
		Banka .	... ..	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	0 09	38·34	43·30
		Kolgong ...	.....	... ..	... ..	.....	.....	.....	.....	Nil	Nil	Nil	?	40·97	?
		Bangaon ...	.....	... ..	.....	... ..	.....	.....	.... .	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	59·90	52·08
		Godda ...	.....	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	0·09	49 04	47·28
		Pakour ...	.....	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	0·05	73·59	55·13
		Nya Doomka	.....	.....	... ..	.....	.....	.....	. .	Nil	Nil	Nil	0·15	56·75	53·86
		Deoghur ...	.....	.....	... ..	.....	.....	.....	. .	Nil	Nil	Nil	0·09	40·40	50·29
		Jamtara ...	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	0 15	45·21	43·89
		Mohagama ...	... ..	.....	... ..	.....	.....	.....	.. ..	Nil	Nil	Nil	?	56·41	?
		Nemihat ...	.....	.....	.....	.....	. ....	.....	.....	Nil	Nil	Nil	?	53·87	?
Chutia Nagpur.	Hazaribagh ..	Pachamba (*Gyridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	38·90	47·19
		Hazaribagh ...	... ..	.....	... ..	.....	.....	.....	. ..	Nil	Nil	Nil	0·17	49·10	46·71
		Semzagurah .	. ..	.. ..	... .	.....	.....	.....	.....	Nil	Nil	Nil	0·15	36·24	46·66
		Mahudi Hills	... .	.....	... .	... ..	.....	.....	..	Nil	Nil	Nil	0·28	.	47·55
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	... .	Nil	Nil	Nil	0·26	43·00	62·29
		Barhi ...	.....	.....	.....	... ..	.....	.....	...	Nil	Nil	Nil	?	31·86	?
		Chutra ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	.	46·04	?
		Karagdeha ...	.....	.....	. . .	.....	.....	.....	..	Nil	Nil	Nil	.	39·35	.
		Ramghar .	.. ..	.....	.....	.....	.....	.....	... .	Nil	Nil	Nil	?	.	?
	Lohardugga .	Lohardugga	.....	.....	.. . .	.....	.....	.....	.. ...	Nil	Nil	Nil	0·37	45·24	50·63
		Ranchi ...	.... .	.....	.... .	.....	.....	.....	.....	Nil	Nil	Nil	0·10	53·61	51·63
		Palamow ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·14	54·16	42·76
		Silli ...	.....	.....	.. ..	.....	.....	. ....	.....	Nil	Nil	Nil	?	53·80	?
		Balumat ...	.. ..	.... .	.....	.....	... .	....	. .	Nil	Nil	Nil	?	?	?
		Homemabad..	.....	...	. ..	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·77	.
	Singbhoom	Chyebassa ...	. ..	... .	... ..	.....	.....	. ..	... ..	Nil	Nil	Nil	0·13	46·76	51·10
		Chakradharpore.	.....	.....	.....	.....	.....	.. ..	.....	Nil	Nil	Nil	?	40·80	?
		Ghatsilla ...	.....	.....	.. ..	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	?
		Baharagora	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	45·46	48·61
		Gobindpore ...	.....	.....	... .	.....	.. ...	... ..	..	Nil	Nil	Nil	0·10	38·10	44·61
		Kashinath-pore.	... ..	.....	.....	... ..	.....	... ..	.....	Nil	Nil	Nil	?	45·91	?
		Barrabhoom	.....	... .	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·33	?
		Jhalda ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	?	51·43	?
		Chas ..	.....	.....	.....	.....	.....	... ..	... ..	Nil	Nil	Nil	?	58·56	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 14*th January* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 10TH JANUARY 1890.

NORMAL north-east monsoon conditions obtained over the whole of Bengal throughout the previous week. Over the greater part of the province similar conditions have again prevailed during the present week, but there has been an exception to the prevailing fine weather over a part of the north, and to a smaller extent over part of the centre, of the province, from the fact that a very feeble area of relatively low pressure was formed on the 5th which included many stations in the centre of the province, stretching from Dinagepur on the north to Jessore in the south and from Bankoora on the west to Serajgunge in the east, and round which there was a feeble kind of cyclonic circulation of winds, the centre of the circulation being to the east of Berhampore The feeble area of low pressure was again perceptible on the 6th, the centre being apparently a little north of its position on the previous day, and again there was a slight circulation of winds round the centre. On the 7th the lowest pressure in the province was at Bogra, near which apparently the feeble low-pressure area again existed, but on the 8th pressure had become slightly low over a part of North and East Bengal, while on the 9th the lowest pressure in the province had retreated southwards to Burrisal, when conditions became practically normal again. It will be thus seen that there was a tendency for slightly disturbed conditions to set in over the centre and north of the province for the period, the 6th to the 9th of January. The disturbance was, however, not sufficient to do more than give slightly cloudy weather at some of the stations in the centre of the province, but in the hills and at the stations nearest the hills the disturbance showed itself by giving rather heavily-clouded skies and light rain showers. These showers were practically entirely confined to the Julpigoree, Cooch Behar, and Darjeeling Hills districts. In most cases the falls were slight only, and the only station which received a fall larger than half an inch was Kurseong.

Over the remainder of the province fine north-east monsoon weather has continued, though, as is frequently the case when weather is slightly disturbed, temperature and humidity have been somewhat high ; but the skies have remained almost cloudless, and rain has been entirely absent from the remainder of the province for the whole week.

Pressure—On the 4th of January fell very slowly at some of the stations in the centre of the province, while it was rising at some of the stations in East and North Bengal. A further general fall took place on the following day except at some of the south-eastern stations. On the 6th a rather rapid rise took place, which was continued on the 7th, but on the 8th pressure had fallen moderately again, though there was again a rise at the end of the week. For the whole province for the week the mean pressure has been considerably in defect of the normal, the average defect ranging from about five to eight-hundredths of an inch.

Temperature—Has been generally increasing during the week, and in all districts, except Orissa, the mean temperature has been rather considerably in excess of the normal, the excess ranging up to more than four degrees in East and North Bengal. For the whole province the mean temperature has been 2·8° in excess of the normal

The general distribution of temperature during the week, its range from day to night, and its variation from the normal, are best shown in the following table, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are compared with the normal It will be seen that both day and night temperatures have been in excess of the normal, the night temperatures, if anything, showing rather the greater excess :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 10th January 1890.

	Normal mean maximum temperature for the week ending 1oth January.	Actual mean maximum temperature for the week ending 10th January 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 10th January.	Actual mean minimum temperature for the week ending 10th January 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 10th January.	Actual mean daily temperature for the week ending 10th January 1890.	Variation of actual mean from the normal.
Cuttack	83·7	82·1	—1·6	59·8	58·8	—1·0	71·8	70·5	—1·3
Calcutta	76 1	76·9	+0·8	54·6	57·2	+2·6	65·4	67·0	+1·6
Dacca	77·0	79·5	+2 5	54·8	58·4	+3 6	65·9	69 0	+3·1
Burdwan	77·3	78·8	+1·5	54 3	57 4	+3·2	65·7	68·1	+2·4
Patna	72·4	75·6	+3 2	48·9	53·3	+4 4	60 7	64·5	+3·8
Gya	75·0	76·6	+1 6	51·3	52·7	+1 4	63·1	64 7	+1·6
Purneah	74·5	74 3	—0·2	47·5	52 2	+4 7	60·9	63·2	+2·3
Hazaribagh	71 6	72 9	+1·3	49·3	51 9	+2 6	60·5	62·4	+1 9
Darjeeling	46·9	53·4	+6 5	35·7	37·7	+2 0	41·3	45·5	+4·2

Rainfall.—A few showers have fallen in the Julpigoree, Cooch Behar, and Darjeeling Hills districts, but the falls are as a rule small. The largest fall is one of 0·63 inch at Kurseong and of 0 42 inch at Nagrakotta, but in all other cases the falls have been less than a quarter of an inch In other districts, beyond a slight shower at Rungpore, there has been absolutely no rain.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 10th of January 1890 :—

Meteorological Divisions.	Temperature						Rainfall								
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 18th May 1889.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average	Average.	Normal average.
Orissa*	83·3	53 5	80·0	58·3	69 2	0	Nil	0·04	—0 04	0 0	0 1	—0·1	Nil	0·05	62·01	53·53
South-West Bengal ...	82 3	53 2	78 2	57·3	67 7	+2·5	Nil	0·08	—0·08	0 0	0·2	—0·2	Nil	0·11	52·37	51·67
East Bengal	81·1	55 8	77·5	59·2	68·4	+4·1	Nil	0·12	—0·12	0 0	0 2	—0·2	Nil	0 16	75 53	73 87
North Bengal*	81 4	52·7	77·8	56·3	67 0	+4·5	0·02	0·07	—0·05	0·2	0 2	0	0·02	0·07	73 14	69 94
North Behar	78·9	50·0	75 4	54·0	64·7	+3·3	Nil	0·06	—0·06	0 0	0·2	—0 2	Nil	0 08	57·66	48 27
South Behar	79 1	48 9	76·3	53·1	64·7	+3·4	Nil	0·07	—0·07	0 0	0·2	—0·2	Nil	0 08	44·16	43·42
Chutia Nagpur	76·0*	47 0*	73·0*	51 4*	62 2*	+1·6*	Nil	0·16	—0 16	0 0	0·3	—0·3	Nil	0·17	43 08	49·05

* Pooree, Julpigoree, Motiharee, Chupra and Chyebassa not included.

Meteorological Office, Bengal ; A. Pedler,
The 14th January 1890. *Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 5th to 11th January 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Jan. 1890 ...	5th ...	29·992	69·7	79·9	20 4	59·5	73 4	65 5	·524	60 3	63	.....
,, ,, ...	6th ...	30·094	69 7	79 9	20 5	59 4	71 6	65·6	·552	61 7	71	...
,, ,, ..	7th ...	·120	69 1	79·9	21 6	58 3	71 6	65 6	·552	61 7	71	...
,, ,,	8th ...	·058	70·4	80 9	21·0	59·9	72·6	66 6	·574	62 9	72	.....
,, ,, ...	9th ...	·100	67·3	77·9	21·2	56 7	70 6	63 6	496	58 7	66	...
,, ,, ...	10th ...	·053	67·4	77 9	21·0	56 9	69 6	64 1	·526	60·4	73	..
,, ,, ...	11th ...	·025	69·0	78 9	19 9	59·0	71·1	65 6	·558	62·1	73	.. ...

		Inches.
The mean 10 A.M. pressure of the seven days		30 063
	°	
The mean temperature of the seven days		68 9
The extreme variation of temperature		24·2
The maximum temperature		80·9
	%	
The mean 10 A.M. relative humidity of the seven days		70
	Inches.	
The total fall of rain from 5th to 11th January 1890		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office. India ;
The 13th January 1890.

MEMORANDUM.

THE total number of deaths registered during the month of November 1889 in the districts of Bengal amounted to 147,795, against 148,610 in the preceding month, 138,989 in November 1888, and an average of 155,663 in the corresponding months of the previous five years 1884—88. These figures correspond to annual death-rates of 26·88, 27·00, 25·44 and 28·20 respectively. It will thus be seen that while the death-rate for November 1889 was less than that of the preceding month and of the average mortality of November, it was in excess of the mortality of November 1888. Of the 147,795 deaths registered in November 1889, 76,066, or 27·84 per thousand, were males and 71,729, or 25·92 per thousand, were females.

2. The highest death-rates were returned in order of sequence from the following districts. For comparison the mortality in them during November 1888 is also exhibited :—

Districts.	Ratio per *mille* during—		*Districts.*	Ratio per *mille* during—	
	Nov. 1889.	Nov. 1888.		Nov. 1889.	Nov. 1888.
Serampore	47 04	29·76	Shahabad ...	33·60	39·48
Monghyr	40·32	32 04	Dinajpur ...	33·48	33 12
Jessore	37 02	33 24	Gya ...	32·76	33 48
Backerganj	37·08	27·96	Noakhali ...	32 40	29 04
Cuttack	37·08	13 80	Bhagulpore ...	32 28	32 04
Hughli	36·40	27·84	Khulna ...	32 16	32·76
Julpaiguri	35·40	35·64	Rajshahye ...	31·68	26 64
Poori	35 04	16 68	Howrah ...	29 64	24·00
Balasore	34 56	17·76			

3. The following statement compares the rates of mortality under the several heads of disease during the three periods, viz., November 1889, 1888, and the average for that month of the five years 1884—88 :—

	Ratio per *mille* during—		
	November 1889.	November 1888.	Mean of previous five years, 1884—88.
Cholera	·96	1·32	1·92
Small-pox	·01	·03	·02
Fever	20·76	19·56	21·60
Bowel-complaints	·72	·60	·84
Injury	·24	·01	·24
Other causes	3·84	3·48	3·36

The only noticeable point indicated by the above figures is that cholera was considerably less fatal in November 1889 than in either of the past periods with which that month is compared, and that fever as compared with November 1888 has increased somewhat.

4. In the statement below the districts are exhibited in which the highest proportions of deaths were recorded :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other Causes.*	Ratio per *mille.*
Cuttack	7·92	Monghyr	35 52		
Serampore	5·40	Julpaiguri	33·24	Poori	18·60
Jessore	4·80	Dinajpur	31·80	Backerganj ...	10·68
Poori	4·56	Jessore	30·48		
Balasore	4 56	Purneah	29 16		
Howrah	2 76	Rajshahye	28·92		
Faridpore	2·64	Gya	28·80		
		Serampore	28·56		
		Noakhali	27·96		
		Shahabad	27·96		
		Rungpore	26·64		
		Bhagulpore	26·40		
		Hughli	26·04		
		Khulna	25·32		
		Backerganj	25 32		
		Hazaribagh	24·36		
		Maldah	24·12		

5. The following table exhibits the death-rates among the five principal *classes* which comprise the population of the Bengal province, viz., Hindus, Mahomedans, Other classes, Buddhists, and Christians, arranged so as to show the graduated rates of mortality among them respectively :—

Classes.	Ratio per *mille*—	
	Nov. 1889.	Nov. 1888.
Hindus	27·48	24 84
Mahomedans	26 52	27 12
Other classes	16·20	18·60
Buddhists	15 48	15 84
Christians	14·64	15 48

6. Referring to mortality in relation to *Age*, infants under one year furnished a death-rate of 190·32 per 1,000 of the living, against 172·32 per 100 in November 1888, and old men of 60 years and upwards of 73·08 per 1,000, against 64·68 in November 1888. The mortality under the other groups of ages ranged from 38·52 per 1,000 among persons between 50 and 60 years of age to 12·00 per 1,000 among persons between 10 and 15 years. The corresponding proportions in November 1888 were 35·04 and 11·88 respectively.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 13th January 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of November 1889

		3			4							5							6		7		8		9
		POPULATION			MORTALITY ACCORDING TO— Disease. Deaths from—							Ratio per 1,000 of population per annum							Comparison with previous periods.		Sex. Deaths among—		Ratio per 1,000 of population per annum		
DIVISIONS	DISTRICTS.	Males.	Females.	Total.	Cholera.	Small pox.	Fevers.	Bowel complaints	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints	Injury.	Other diseases	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females	Ratio of male deaths to every 100 female deaths, calculated on the proportion which mortality bears to the total male and female population.
BURDWAN	Burdwan	669,295	722,598	1,391,893	38	...	2,233	67	13	491	2,842	.24		19.20	.48	.10	4.20	24.48	24.13	19.69	1,463	1,376	26.25	23.80	114
	Bankura	507,136	534,616	1,041,752	2	2	1,100	33	7	244	1,388	.01	.01	12.60	.36	.06	2.52	15.72	17.23	16.45	757	651	17.40	14.16	123
	Birbhum	381,563	412,865	794,428	12		1,349	5	12	250	1,628	.12		19.08	.07	.12	5.58	23.44	27.24	24.72	738	890	25.08	25.80	97
	Midnapore	1,243,195	1,272,370	2,515,565	114	15	4,081	279	47	853	5,389	.45	.06	19.41	1.08	.13	3.98	25.44	22.92	23.97	2,779	2,571	23.76	24.24	110
	Hughli	315,695	347,335	663,030	39	...	1,410	119	20	209	1,797	.70	.	26.04	2.76	.36	5.23	35.40	29.61	27.84	982	974	37.31	33.60	111
	Serampore	174,386	177,569	351,955	160	...	838	165	11	208	1,382	5.40	.	28.56	5.52	.36	6.96	47.04	34.44	29.78	694	688	47.76	46.44	101
	Total (Hughli including Serampore).	490,081	524,924	1,015,005	199		2,278	324	34	413	3,338	2.28	.	26.88	3.72	.36	5.88	39.36	31.32	28.44	1,676	1,662	41.01	37.92	103
	Howrah	316,479	318,902	635,381	147	3	791	244	30	350	1,575	2.76	.04	14.88	4.93	.36	6.69	29.64	23.43	24.00	807	768	30.43	28.97	105
PRESIDENCY	24 Pergunnahs	860,841	812,521	1,673,362	149	8	2,434	153	47	433	3,274	.96	.04	17.40	1.03	.24	3.36	23.41	19.12	32.53	1,770	1,504	24.60	22.21	111
	Nuddea	805,779	849,942	1,655,721	74	...	2,396	15	35	533	3,013	.45	...	17.28	.10	.24	3.60	21.74	24.40	29.91	1,565	1,413	23.28	20.40	113
	Jessore	959,271	990,105	1,949,376	782	...	4,928	21	34	372	6,133	4.80	...	30.48	.12	.12	2.23	37.92	27.12	33.24	3,153	2,958	39.53	36.45	103
	Murshidabad	586,483	640,307	1,226,790	71	...	2,135	14	17	274	2,515	.72	.	20.88	.13	.12	2.64	24.63	27.93	33.49	1,279	1,236	26.16	23.16	111
	Khulna	568,402	511,546	1,079,948	70	...	2,279	14	29	608	2,990	.72	.	25.32	.11	.24	5.64	32.16	25.34	32.76	1,432	1,483	30.12	34.35	89
RAJSHAHYE	Dinajpur	782,292	732,054	1,514,346	...	.	4,018	8	29	184	4,239		...	31.80	.06	.12	1.44	33.48	27.12	33.12	2,144	2,035	32.88	33.33	98
	Rajshahye	660,710	678,893	1,339,603	4	...	3,240	20	43	237	3,544	.01	.	29.03	.13	.33	2.04	31.65	30.00	28.64	1,773	1,774	32.44	31.33	102
	Rungpore	1,067,701	1,030,263	2,097,964	12	...	4,670	16	20	343	5,061	.06	..	26.64	.08	.10	1.94	28.92	20.83	31.56	2,640	2,424	29.61	28.23	103
	Bogra	372,193	361,200	733,393	8	...	1,242	1	16	212	1,513	.04	.	20.88	.01	.24	3.36	24.72	25.16	25.44	768	745	24.72	24.72	100
	Pubna	648,311	663,417	1,311,728	77	...	2,015	9	20	103	2,224	.63	...	22.08	.07	.12	.84	24.00	26.53	27.84	1,352	1,272	24.95	23.93	103
	Darjiling	89,351	66,294	155,645	...	...	279	32	2	61	374		..	21.96	2.40	.12	4.68	24.80	31.20	28.32	146	178	24.23	32.16	81
	Julpaiguri	305,972	276,418	582,390	1	...	1,617	13	10	81	1,722	.01	...	33.24	.24	.12	1.56	35.41	32.28	35.64	873	847	34.29	36.72	93
DACCA	Dacca	1,033,863	1,082,487	2,116,350	71	5	2,904	274	51	955	4,255	.36	.02	16.32	1.44	.24	5.40	24.13	20.04	21.60	2,395	1,959	26.84	21.60	123
	Faridpore	805,989	825,745	1,631,734	352	2	2,703	64	27	567	3,714	2.64	.01	19.80	.36	.12	4.03	27.12	20.16	20.16	1,923	1,776	23.18	25.83	111
	Backergunj	973,479	927,410	1,900,889	25	...	4,038	63	65	1,709	5,891	.15		25.32	.36	.36	10.63	37.04	24.94	37.98	2,861	3,037	35.25	39.12	99
	Mymensing	1,555,840	1,501,103	3,056,943	29	13	4,034	64	27	765	4,917	.10	.04	15.91	.24	.09	3.00	19.58	13.74	17.54	2,637	2,290	20.64	18.24	113
CHITTAGONG	Chittagong	531,649	600,692	1,132,341	...	...	1,850	91	35	177	2,153		.	19.56	.96	.38	1.80	22.80	22.63	19.44	1,051	1,103	24.04	21.98	109
	Noakhali	415,248	405,524	820,772	6	...	1,919	17	33	244	2,222	.05		27.[illegible]	.12	.48	3.48	33.40	24.00	29.04	1,033	1,159	30.61	34.20	89
	Tipperah	768,450	745,911	1,514,361	20	1	2,197	68	44	610	2,940	.12	.007	17.40	.35	.24	5.04	15.08	20.23	26.52	1,514	1,425	24.00	23.65	106
PATNA	Patna	856,511	895,053	1,751,559	42	6	3,017	200	39	621	3,925	.24	.03	20.76	1.32	.24	4.20	27.00	34.63	27.54	1,913	2,042	24.70	27.36	93
	Gya	1,043,441	1,081,241	2,124,682	51	16	5,100	42	74	520	5,803	.24	.09	28.80	.12	.36	2.83	32.76	4.72	33.49	2,845	2,958	32.53	32.76	92
	Shahabad	950,250	1,014,659	1,964,909	177	24	4,378	65	51	821	5,516	1.08	.12	27.46	.24	.24	3.12	35.04	42.13	30.48	2,535	2,651	31.76	31.63	113
	Mozufferpore	1,265,731	1,316,329	2,582,060	325	...	3,388	167	60	370	4,310	1.44	...	15.72	.72	.24	1.68	17.92	27.73	16.20	2,209	2,101	21.51	19.21	113
	Durbhunga	1,295,788	1,337,659	2,633,447	423	1	4,065	141	49	306	4,985	1.92	.003	18.48	.60	.12	1.32	22.68	20.04	19.92	2,734	2,259	25.30	20.16	123
	Sarun	1,085,847	1,199,832	2,285,679	74	11	1,951	307	67	1,716	4,126	.38	.04	10.24	1.56	.24	9.12	21.74	23.40	16.03	2,170	1,936	23.83	19.83	120
	Chumparun	870,627	850,981	1,721,608	41	23	2,602	23	29	458	3,176	.24	.12	18.12	.12	.12	3.84	22.32	20.33	23.76	1,737	1,468	23.88	20.61	115
BHAGULPORE	Monghyr	969,124	1,000,650	1,969,774	75	3	5,533	54	45	616	6,326	.38	.01	33.52	.24	.24	3.72	40.32	53.56	32.04	3,293	3,327	41.80	39.94	105
	Bhagulpore	979,119	987,039	1,966,158	144	2	4,342	54	33	722	5,297	.84	.01	26.40	.24	.12	4.32	33.28	38.38	32.04	2,619	2,629	32.64	31.92	102
	Purneah	937,080	911,607	1,848,687	187	...	3,123	5	22	81	3,418	1.20		20.16	.08	.12	.48	22.08	24.36	33.36	1,813	1,605	23.16	21.00	110
	Maldah	356,998	353,450	710,448	67	...	1,395	6	9	81	1,558	.96	.	24.12	.96	.12	1.32	23.75	35.64	70.32	853	780	29.04	24.00	123
	Sonthal Pergunnahs	785,330	782,763	1,568,093	57	...	1,615	28	15	232	1,947	.36		12.34	.12	.10	1.68	14.89	18.60	13.64	1,120	827	17.04	12.60	134
ORISSA	Cuttack	877,702	917,363	1,795,065	1,203	8	2,683	392	84	1,156	5,551	7.92	.06	17.89	2.52	.48	7.93	37.08	26.40	13.89	2,753	2,798	37.53	36.60	102
	Pooree	442,604	441,873	884,477	340	38	496	286	55	1,381	2,599	4.58	.46	6.60	3.84	.72	18.60	35.04	24.36	16.63	1,331	1,218	37.03	34.68	107
	Balasore	461,461	483,819	945,280	360	...	1,293	562	15	494	2,724	4.57	.	16.82	7.08	.12	6.24	34.56	26.52	17.76	1,411	1,315	36.61	32.52	112
CHOTA NAGPORE.	Hazaribagh	544,903	559,839	1,104,742	...	..	2,245	38	27	204	2,514	..		24.38	.35	.24	2.16	27.24	34.40	30.36	1,305	1,212	28.59	26.93	110
	Lohardugga	796,657	812,587	1,609,244	...	2	1,776	108		491	2,377	.	.01	13.20	.73		3.48	17.64	24.24	22.44	1,233	1,123	18.50	16.50	112
	Singbhum	226,681	227,094	453,775	2		461	16	13	106	600	.05	..	12.12	.36	.24	2.76	15.84	18.24	19.44	326	274	17.16	14.40	119
	Manbhum	625,428	832,900	1,458,328	2	13	1,076	77	15	197	1,380	.01	.12	12.12	.84	.12	2.16	16.08	19.92	13.80	724	656	16.44	14.70	112
	TOTAL FOR THE PROVINCE.	32,663,700	33,195,534	65,859,234	6,821	196	114,239	4,451	1,418	21,671	147,795	.96	.01	20.76	.72	.24	3.84	26.83	27.00	25.44	76,068	71,729	27.84	25.92	107

		10					11					12										13									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
DIVISIONS.	DISTRICTS.	Deaths among—					Ratio per 1,000 of population per annum.					Deaths.										Ratio per 1,000 of population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	2,311	503	...	...	...	24·96	22·80	...	...	525	289	216	113	143	339	272	308	237	404	200·04	36·28	15·48	10·08	13·93	15·81	14·64	24·12	29·28	60·00
	Bankura	...	1,224	60	...	74	...	16·20	15·45	...	10·41	271	142	137	69	81	131	127	130	180	201	96·48	13·92	10·80	7·56	10·20	8·76	10·32	22·56	24·90	43·03
	Birbhum	...	1,401	272	...	15	...	27·12	20·04	...	12·33	413	245	189	74	78	155	106	123	114	191	236·88	36·72	22·32	10·92	13·92	11·68	10·32	17·04	23·76	49·56
	Midnapore	...	4,810	283	...	239	...	25·93	20·64	...	24·36	1,141	645	421	190	263	711	500	459	457	785	219·00	23·36	14·52	9·12	13·68	12·84	16·34	23·40	35·76	68·88
	Hughli	1	1,699	376	...	...	41·28	35·83	32·88	...	...	383	234	138	68	109	221	197	210	171	25	273·13	41·41	24·12	13·08	21·54	20·40	22·08	33·24	42·81	63·84
	Serampore	1	1,162	219	...	...	32·70	47·76	41·04	...	...	219	172	133	63	73	148	143	135	139	157	282·32	64·68	47·28	24·72	27·84	25·20	29·52	38·64	65·88	96·72
	Total (Hughli including Serampore).	2	2,761	375	...	...	36·72	40·08	36·38	...	...	605	376	271	131	182	369	340	345	310	409	269·04	49·56	31·80	16·92	23·83	23·08	24·72	35·52	59·88	87·00
Presidency ...	Howrah	6	1,287	282	...	...	35·04	30·72	25·56	...	...	351	202	88	66	63	161	142	116	121	266	226·08	35·64	13·41	13·72	13·84	15·81	18·12	22·80	25·20	82·20
	24-Pergunnahs ...	11	2,142	1,121	...	...	12·9	21·72	21·48	...	...	515	436	263	124	162	371	309	267	276	524	147·28	28·56	14·16	9·60	14·23	14·28	14·88	20·16	35·41	62·40
	Nuddea	10	1,485	1,618	...	...	18·6	22·80	21·90	...	...	637	427	273	138	135	215	241	214	224	409	206·88	25·20	12·34	10·56	13·56	11·16	11·84	17·64	21·96	46·92
	Jessore	1	2,480	3,257	...	...	24·36	38·64	37·44	...	...	873	1,042	745	368	357	535	577	473	370	758	203·40	64·48	30·84	21·84	28·81	21·48	26·16	29·32	35·41	76·80
	Murshidabad ...	...	1,159	1,126	...	...	...	26·16	22·81	...	...	391	331	294	152	117	213	221	233	177	348	170·52	23·08	19·21	18·00	14·16	12·48	15·12	22·44	27·60	59·64
	Khulna	...	1,292	1,608	...	...	...	29·52	31·69	...	...	607	417	210	135	191	306	272	214	17	393	242·40	38·16	16·56	14·76	24·12	19·20	21·96	25·32	33·48	73·56
Rajshahye ...	Dinajpur	1	1,920	2,312	...	6	26·16	34·44	31·60	...	50·16	769	779	438	203	246	471	490	337	228	279	263·52	53·76	20·64	16·20	25·20	21·81	25·02	27·48	31·2	44·58
	Rajshahye	...	644	2,860	...	...	...	28·72	32·6	...	...	627	521	335	181	262	447	394	272	163	28	239·64	38·88	21·41	16·20	30·12	23·28	24·36	35·4	27·72	49·24
	Rungpore	...	1,895	3,169	...	...	...	27·84	29·04	...	...	810	730	484	184	290	653	600	448	384	500	190·20	36·24	17·52	10·92	17·76	21·90	23·56	27·36	37·05	52·20
	Bogra	...	289	1,224	...	...	...	24·60	24·72	...	...	316	209	139	77	85	163	157	118	89	145	255·24	25·92	13·68	12·72	17·16	16·08	17·88	21·81	29·28	47·16
	Pubna	1	767	1,856	...	...	108·24	25·44	23·40	...	...	241	424	349	203	174	240	290	199	144	383	80·52	28·32	19·32	19·32	22·08	14·16	19·20	19·54	24·48	50·04
	Darjiling	10	830	21	11	2	111·84	31·09	30·[illegible]	6·98	37·44	[illegible]	[illegible]	23	24	20	71	58	33	22	29	184·60	33·12	14·76	13·36	18·12	24·96	27·04	23·60	36·3	40·92
	Julpaiguri	...	1,069	635	...	23	...	31·41	34·48	...	72·72	474	231	93	54	62	174	208	118	93	138	351·36	49·41	12·84	10·20	17·76	21·60	27·43	29·01	32·88	51·24
Dacca ...	Dacca	20	1,948	2,347	...	...	27·24	26·40	22·44	...	...	890	532	255	176	210	337	383	287	233	889	181·44	21·96	16·20	9·24	15·48	13·92	16·34	18·36	21·84	78·48
	Faridpore	2	1,465	2,237	...	...	8·64	27·72	27·43	...	...	475	471	310	193	200	318	312	295	280	624	240·76	26·52	16·48	11·32	19·92	15·60	16·20	22·69	31·20	76·32
	Backergunge ...	5	1,599	4,[illegible]	2	...	16·08	30·60	40·36	4·92	...	1,547	964	640	211	219	494	422	323	350	853	397·20	41·61	26·88	13·96	15·96	17·23	19·56	22·56	39·81	103·44
	Mymensing	...	1,[illegible]	3,020	...	78	...	22·80	17·76	...	38·00	727	862	378	257	230	630	552	471	364	778	113·38	16·41	9·00	10·09	13·44	14·76	15·64	21·36	27·90	51·72
Chittagong ...	Chittagong	1	551	1,511	80	...	11·28	24·0	22·58	19·93	...	284	397	191	83	90	181	186	177	177	371	103·08	32·23	11·12	7·68	12·24	13·08	16·20	21·84	31·44	72·24
	Noakhali	1	441	1,780	...	...	20·40	24·96	35·04	...	...	451	396	223	85	78	148	163	130	123	392	217·92	42·36	20·16	11·40	13·44	18·44	13·48	22·32	33·12	109·5
	Tipperah	...	1,0[illegible]	1,948	...	...	...	23·84	23·16	...	...	656	364	173	137	180	331	244	104	214	467	223·36	20·85	8·76	9·84	16·92	15·84	14·81	17·52	31·08	71·[illegible]
Patna ...	Patna	5	3,5[illegible]	377	...	...	23·04	27·87	21·12	...	...	864	492	219	124	140	290	306	394	513	859	192·96	27·84	11·28	8·58	10·56	11·52	14·35	25·44	49·20	80·16
	Gya	...	5,223	551	...	...	...	33·12	29·88	...	...	743	798	359	219	183	474	508	681	701	1,094	208·44	34·41	14·76	14·64	15·72	16·08	19·32	25·56	59·28	105·63
	Shahabad	1	5,196	323	...	...	43·44	31·20	25·85	...	...	844	5[illegible]3	341	176	133	451	594	576	606	1,195	230·88	28·44	13·32	10·32	12·96	17·52	23·76	31·92	60·60	118·04
	Mozufferpore ...	...	3,5[illegible]1	484	...	...	...	20·16	18·48	...	...	247	497	333	189	165	422	511	595	562	781	63·60	18·24	10·20	8·76	11·76	17·[illegible]4	10·56	26·40	33·84	59·16
	Durbhunga	1	4,494	578	...	...	36·84	23·04	19·68	...	...	355	755	347	326	285	567	623	526	514	662	92·40	28·08	10·32	15·33	19·08	15·72	18·45	21·44	36·12	56·40
	Sarun	...	3,7[illegible]0	366	...	...	...	23·44	16·20	...	...	467	451	213	140	123	319	430	441	465	1,049	104·32	20·64	7·56	6·96	10·32	11·52	14·64	23·08	39·60	91·32
	Chumparun	4	2,761	4[illegible]0	...	...	24·72	22·56	20·7[illegible]	...	...	29[illegible]	376	320	167	110	331	311	305	369	604	81·12	22·08	15·72	10·68	11·52	13·88	14·53	20·52	42·60	75·72
Bhagulpore ...	Monghyr	...	6,083	532	...	6	...	41·16	31·90	...	9·96	951	1,2[illegible]0	45[illegible]	2[illegible]4	119	433	387	564	629	1,519	330·28	61·32	18·00	14·23	10·50	16·80	1[illegible]·84	33·12	62·04	161·16
	Bhagulpore	...	4,913	384	...	...	...	33·36	24·7[illegible]	...	...	880	701	407	238	204	536	513	574	548	714	279·46	35·60	15·60	13·44	17·28	19·08	21·16	36·12	60·64	59·40
	Purneah	...	1,918	1,503	...	...	...	21·21	23·23	...	...	291	430	237	217	213	419	451	465	331	320	92·28	23·64	12·09	13·80	18·60	16·03	30·60	29·64	39·60	41·28
	Maldah	...	929	659	...	...	...	29·40	26·76	...	...	225	272	180	83	90	124	143	112	83	222	13[illegible]·12	39·01	21·84	14·40	18·00	15·84	17·04	20·04	27·04	61·68
	Sonthal Pergunnahs	1	1,151	130	...	665	3·81	16·20	14·23	...	13·03	354	274	148	124	129	208	157	140	156	20	135·96	15·36	7·80	8·16	13·58	10·68	8·88	13·96	23·70	31·20
Orissa ...	Cuttack	5	5,420	126	...	...	25·53	37·29	31·80	...	...	1,141	780	425	248	268	507	489	415	451	827	364·56	41·16	15·84	15·48	25·32	19·92	24·45	31·20	46·92	88·08
	Pooree	...	2,374	23	...	...	...	25·28	21·40	...	...	4	269	148	98	116	247	269	279	242	434	347·68	27·48	13·92	13·08	20·70	18·72	25·58	39·84	49·08	1[illegible]·84
	Balasore	4	2,676	41	...	5	58·20	35·[illegible]4	20·64	...	12·24	686	347	190	91	104	236	254	256	215	361	339·04	35·28	16·08	10·44	16·32	17·16	23·04	33·12	51·96	87·48
Chota Nagpore.	Hazaribagh	...	2,140	243	...	131	...	27·72	27·48	...	21·36	38[illegible]	372	251	129	83	189	231	213	243	401	153·33	23·32	16·41	13·20	15·08	12·48	17·52	26·34	53·76	112·32
	Lohardugga ...	24	1,210	166	...	906	7·92	16·68	25·[illegible]	...	18·48	8[illegible]4	337	213	141	114	204	252	242	239	296	91·20	16·92	9·36	9·60	11·88	9·12	13·44	21·96	37·68	54·60
	Singbhum	2	590	8	...	...	7·22	15·72	41·16	...	...	10[illegible]	83	49	21	29	52	60	71	60	71	142·80	16·[illegible]8	7·80	4·80	9·12	8·28	8·64	21·72	31·92	43·68
	Manbhum	1	1,277	54	...	48	21·72	16·08	14·16	...	8·61	108	177	124	86	161	151	149	117	123	152	82·92	15·24	8·16	9·60	13·32	10·68	12·00	16·08	28·70	34·92
	TOTAL FOR THE PROVINCE.	119	98,051	47,249	193	2,383	14·64	27·48	26·52	15·48	16·20	24,558	20,183	12,179	6,733	6,706	14,373	14,241	13,355	12,549	32,557	190·32	36·12	14·76	13·00	16·20	15·60	17·83	25·08	38·52	73·08

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 13th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

THE principal Municipalities in Bengal returned, during the week ending 28th December 1889, the birth and death-rates of 24 and 27·9 per 1,000 of population, respectively, as opposed to 25·2 and 30 2 per 1,000 in the preceding week ending 21st December, indicating a falling off in the registration of both births and deaths.

2. These events were returned in the highest proportions by the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Ranaghat	59·9	Poori	73·4
Utterpara	47·2	Serampore	68·7
Howrah	38·4	Naraingunj	62·1
Serampore	35·3	Jessore	61·2
Hughli and Chinsurah	34·5	Utterpara	56 6
Rampore Beauleah	34·2	Ranaghat	53·9
Santipore	33·3	Darjiling	51·9
Naraingunj	33·1	Hughli and Chinsurah	44·3
		Comillah	42·4
		Dacca	36·3
		Burdwan	33·6
		Howrah	31·5
		Purneah	31·2
		Gya	30·1

3. Referring to the specific diseases, there was a diminution of mortality from fever, while the fatal results from the other diseases exhibited only fractional differences—*vide* statement appended below :—

	Ratio per *mille* during the weeks ending—	
	28th December 1889.	21st December 1889.
Cholera	3·2	2·4
Small-pox	·4	·2
Fever	10·4	12·8
Bowel-complaints	4·8	5·2
Injury	·6	·5
Other causes	8·4	9·1

4. The following Municipalities returned conspicuously high mortality from cholera, small-pox, fever, bowel-complaints, and the unspecified diseases coming under the head of "Other causes" :—

Cholera.	Ratio per *mille.*	*Small-pox.*	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Naraingunj ...	33·1	Poori ...	12·6	Darjiling ...	37·0	Serampore ...	23·6	Poori ...	27·3
Comillah ...	30·8			Ranaghat ...	35·9	Hughli and Chinsurah ...	14·8	Serampore	25 5
Chittagong ...	23·5			Poori ...	20·9	Poori ...	12·6	Dacca ...	14·9
Dacca ...	9·1			Purneah ...	20·8	Howrah ...	11·4	Gya ...	11·6
Howrah ...	6·3								

5. The death-rates according to *Sex*, *Class* and *Age* stood as shown below :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	32·0	Christians	7·5	Under 1 year ...	200·8
Females	23·5	Hindus	28·5	1 and under 5 years ...	22·9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	146	Mahomedans	27·0	5 „ 10 „ ...	11·3
		Buddhists	25·7	10 „ 15 „ ...	8·6
				15 „ 20 „ ...	18·0
				20 „ 30 „ ...	17·5
				30 „ 40 „ ...	19·3
				40 „ 50 „ ...	26·2
				50 „ 60 „ ...	32·9
				60 years and upwards ...	91·0

The 13th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 28th December 1889.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,417	34,480	6	4	10	9·2	6·1	15·3	150	1	...	11	3	...	7	22	1·5	...	16·8	4·6	..	10·7	33·6	45·8	10	12	28·8	39·0	72
Midnapore ...	Midnapore ..	16,927	16,633	33,560	11	5	16	17·0	7·7	24·8	220	...	...	6	3	...	7	16	...	...	9·3	4·6	...	10·8	24·8	17·0	5	11	15·4	34·4	44
Hughli ...	Hughli and Chinsurah.	15,858	15,929	31,687	12	9	21	19·7	14·8	34·5	133	1	—	12	9	...	5	27	1·6	...	19·7	14·8	..	8·2	44·3	72·2	16	11	53·5	36 1	144
Serampore ...	Serampore ...	13,469	12,937	26,406	10	8	18	19·6	15·7	35·3	125	1	2	7	12	...	13	35	2·0	3·9	13·7	23·6	...	25·5	68·7	70·7	22	13	84·4	52·2	161
	Utterpara	3,946	2,464	5,510	2	3	5	16·9	28·3	47·2	66	3	...	...	1	...	2	6	28 3	...	...	9·4	...	18·9	56·6	56 6	2	4	34·1	84·4	40
Howrah ...	Howrah	53,153	37,660	90,813	36	31	67	20 6	17·8	38 4	116	11	1	10	20	1	12	55	6 3	·6	5·7	11·4	·6	6 9	31·5	29·2	35	20	34·2	27·6	126
	Bali	7,836	6,979	14,815	2	3	5	7·0	10·5	17·5	66	1	...	3	2	...	...	6	3·5	...	10·5	7·0	...	...	21·1	24 6	3	3	19·9	22·4	86
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	1	2	3	1·9	3·8	5 7	50	...	...	3	...	...	2	5	...	...	5·7	...	...	3·8	9·5	22·7	1	4	3·9	14·6	21
	Ranaghat	4,923	4,655	8,583	9	1	10	53·9	6·0	59·9	200	...	...	6	2	...	1	9	...	...	33·9	12·0	...	6·0	53·9	41·9	6	3	77·5	33·5	233
	Santipore	13,708	15,979	29,687	11	8	19	19·3	14 0	33·3	137	...	...	7	...	...	2	9	...	...	12·3	.	...	3·5	15·8	5·2	5	4	19·0	13·0	146
Jessore ...	Jessore	4,830	3,665	8,495	...	4	4	...	24 5	24·5	No male birth.	3	...	3	...	...	4	10	18 3	...	18·3	...	...	24·5	61·2	73·5	7	3	75·4	42·6	173
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	5	13	21·0	13·1	34·2	160	...	...	7	1	2	1	11	...	...	18·4	2·6	5·3	2·6	28 9	34·2	7	4	33·3	23·0	143
Darjiling ..	Darjiling	4,579	2,439	7,018	1	3	4	7 4	23·2	29·6	33	...	...	5	...	...	2	7	...	...	37·0	...	...	14·8	51·9	22·2	4	3	43·6	61·0	70
Dacca ...	Dacca	42,782	37,379	80,161	9	14	23	5·8	9·1	14·9	64	14	...	9	7	3	23	56	9·1	...	5·8	4·5	1·9	14·9	36·3	36·6	39	17	47·4	23·6	204
	Naraingunj ...	7,605	4,956	12,561	4	4	8	16·5	16·5	33·1	100	3	...	3	1	...	3	15	33·1	...	12·4	4·1	...	12·4	62·1	70·4	13	2	88·9	21·0	419
Chittagong ...	Chittagong ...	13,340	8,790	22,130	4	...	4	9 4	...	9 4	No female birth.	10	.	1	...	...	1	12	23 5	...	2·3	...	...	2·3	28·2	30·5	10	2	39·0	11·3	354
Tipperah ..	Comillah	8,153	5,353	13,506	1	6	7	3 9	23·1	27 0	16	8	...	2	...	...	1	11	30·8	...	7·7	...	...	3·9	42 4	46·2	7	4	44 6	38·9	116
Patna	Patna City ...	78,762	81,475	160,237	21	31	52	6·8	10·1	16·9	67	2	...	18	12	1	19	53	·6	...	5·8	3·9	·3	6·2	16·9	14 0	29	23	19·1	14·7	126
Gya	Gya	38,290	37,831	76,121	18	14	33	12·3	9·6	21·9	128	2	...	24	1	...	17	44	1 4	...	16·4	·7	...	11·6	30·1	32·1	23	21	31·2	28·9	111
Shahabad ...	Arrah	20,960	22,505	43,465	14	6	20	16·7	7·2	23·9	233	...	...	13	2	2	...	17	...	...	15·5	2·4	2·4	.	20 3	12·0	7	10	17·4	23·1	74
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	6	5	11	7·3	6 1	13·4	120	..	...	9	4	2	3	18	...	...	10·9	4·9	2·4	3·6	21·9	20·7	11	7	24·3	18·5	133
Durbhanga ..	Durbhanga ...	33,774	32,322	66,096	16	15	31	12 6	11·8	24 4	106	...	...	12	3	...	5	20	...	..	9·4	2·4	...	5·9	15·7	23 8	10	10	15·4	16·1	94
Sarun	Chupra	25,116	26,554	51 670	13	16	29	13·1	16 1	29·2	81	...	...	3	1	.	10	14	...	...	3·0	1·0	...	10·1	14·1	20·1	10	4	20·7	7·8	286
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	14	33	17·2	12 7	29 9	135	..	...	12	...	...	9	21	...	...	10·9	...	...	8·1	19·0	34·4	14	7	24·6	13·1	184
Monghyr ..	Monghyr	28,154	29,366	57,520	17	12	29	15·4	10·8	26 2	141	...	...	11	8	1	8	28	...	...	9·9	7·2	·9	7·2	25·3	33 4	20	8	36·9	14 2	257
Purneah ...	Purneah	8,463	6,553	15,016	2	2	4	6·9	6·9	13·9	100	...	...	6	1	.	2	9	...	...	20·8	3·5	...	6·9	31·2	48·5	3	6	18·4	47·6	38
Poori	Poori	13,247	11,537	24,784	4	8	12	8·4	16·8	25·2	50	..	6	10	6	...	13	35	...	12·6	20·9	12 6	...	27 3	73·4	99·2	20	15	76·5	67·6	116
	Total ...	550,986	510,588	1,061,574	257	233	490	12·6	11·4	24·0	110	65	9	213	99	13	172	570	3·2	·4	10·4	4·8	·6	8 4	27·9	30·2	339	231	32 0	23 5	139

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan ...	Burdwan	...	14	8	...	...	...	30·7	40·5	...	...
Midnapore ...	Midnapore ...	...	16	...	...	...	...	32·1	...	...	...
Hughli ...	Hughli and Chinsurah	...	24	3	...	...	...	40·4	25·3	...	...
Serampore ...	Serampore ...	...	29	6	...	...	...	59·8	332·6	...	...
	Utterpara	...	6	...	...	...	...	56·6	...	...	...
Howrah ...	Howrah	1	33	16	...	...	27·5	29·0	40·6	...	...
	Bali	...	5	1	...	...	...	19·4	39·7	...	...
Nuddea ...	Kishnaghur ...	...	2	3	...	...	...	5·6	18·8	...	...
	Ranaghat	...	7	2	...	...	...	49·7	76·2	...	...
	Santipore	...	7	2	...	...	...	17·6	11·6	...	...
Jessore ...	Jessore	...	6	4	...	...	...	69·2	54·4	...	...
Rajshahye ...	Rampore Beauleah	...	6	5	...	...	...	31·5	26·5	...	...
Darjiling ...	Darjiling	...	7	...	...	...	...	79·2	...	...	...
Dacca	Dacca	...	34	22	...	...	...	43·9	29·1	...	...
	Naraingan j ...	...	9	6	...	...	...	74·6	30·6	...	...
Chittagong ...	Chittagong ...	...	2	9	1	...	...	17·9	30·6	216·7	...
Tipperah ...	Comillah	...	2	9	...	...	...	17·5	63·3	...	...
Patna	Patna City ...	...	41	11	...	...	...	17·9	14·0	...	...
Gya ...	Gya	...	34	10	...	...	...	29·5	32·3	...	...
Shahabad ...	Arrah	...	7	10	...	...	...	11·7	41·9	...	...
Mozufferpore ..	Mozufferpore ...	...	12	6	...	...	...	20·8	25·9	...	...
Durbhanga ...	Durbhanga ...	...	16	2	...	...	...	19·3	5·9	...	...
Sarun	Chupra	...	12	2	...	...	...	15·7	8·7	...	...
Bhagulpore ...	Bhagulpore ...	...	11	10	...	...	...	14·4	30·2	...	...
Monghyr ...	Monghyr	...	24	4	...	...	...	29·9	16·5	...	...
Purneah ...	Purneah	...	7	2	...	...	...	39·7	18·4	...	...
Poori ...	Poori	...	35	...	...	...	...	74·2	...	...	...
	TOTAL ...	1	415	153	1	...	7·5	28·5	27·0	25·7	...

MORTALITY ACCORDING TO— Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
3	...	1	...	1	4	4	4	3	2
3	1	...	...	...	1	2	2	2	5
4	1	1	1	...	3	4	2	2	4
7	...	2	1	2	2	3	5	7	6
1	...	...	...	...	...	1	2	1	1
10	7	5	...	3	7	6	6	5	6
1	...	...	...	...	...	...	1	...	4
1	...	...	...	1	1	...	...	...	2
...	1	...	...	2	1	...	1	2	2
2	...	...	...	1	...	1	2	...	3
3	1	1	1	...	1	...	1	1	1
2	1	...	...	...	2	2	1	2	1
...	1	...	...	...	2	1	2	...	1
8	1	1	4	3	13	7	5	5	2
4	1	...	...	...	4	4	...	2	...
...	...	1	...	1	1	3	6	...	...
1	...	...	...	...	1	4	...	1	4
12	2	4	2	2	3	5	5	4	13
6	5	...	...	1	5	2	2	4	13
3	...	...	3	1	1	1	1	...	7
2	4	3	...	...	...	...	3	2	4
3	3	2	...	2	1	1	2	2	4
5	2	...	...	2	2	...	...	...	3
1	4	...	1	...	3	1	1	2	3
5	1	1	1	3	3	3	2	...	4
2	...	...	...	1	3	...	2	...	1
9	5	2	2	2	2	4	5	2	2
98	41	24	16	28	71	63	63	49	115

MORTALITY ACCORDING TO— Age. Ratio per 1,000 of Population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
236·4	...	22·3	...	16·6	26·3	30·2	47·1	63·5	76·2
210·0	22·1	...	...	...	7·1	18·3	27·9	50·4	142·1
259·0	23·4	18·0	21·0	...	67·6	36·4	24·9	40·0	100·3
512·7	...	41·4	23·4	47·6	19·3	31·4	77·1	199·1	224·3
323·0	...	...	...	...	...	49·0	148·4	141·3	300·0
252·1	65·7	41·3	...	21·3	16·0	13·2	26·5	47·4	83·2
143·6	...	...	...	...	...	...	26·9	...	284·2
104·3	...	...	...	25·3	10·3	...	...	...	60·2
...	65·4	...	...	166·9	34·5	...	51·3	143·6	182·3
123·1	...	...	...	23·4	...	12·0	29·6	...	79·4
804·1	105·3	65·6	78·2	...	25·3	...	49·5	92·4	113·5
256·2	36·7	...	...	...	25·0	29·9	21·2	83·3	54·0
...	86·9	...	...	...	52·0	56·3	150·3	...	307·7
219·2	7·1	5·2	26·2	21·4	44·1	31·2	31·0	54·9	84·0
745·5	45·6	...	...	...	77·9	97·2	...	133·0	...
...	...	20·8	...	21·5	11·2	46·8	133·2	...	...
175·1	...	...	...	...	18·3	104·3	...	64·9	306·8
144·3	7·1	13·4	7·2	9·3	5·4	11·2	13·3	14·7	48·9
174·3	40·9	...	...	9·9	17·7	13·3	19·6	31·6	181·9
121·1	...	...	35·3	16·2	6·6	8·1	11·1	...	126·2
108·9	51·5	34·7	...	...	...	...	31·3	33·0	86·5
100·2	20·5	13·3	...	25·9	5·9	4·7	14·0	23·7	65·1
184·3	20·1	...	...	30·0	11·3	...	...	...	45·9
43·6	38·4	...	8·3	...	14·3	5·6	8·3	24·4	115·5
175·1	6·4	7·4	9·1	41·3	15·1	46·6	16·3	...	58·0
367·5	...	...	...	53·3	47·5	...	56·1	...	61·4
1,544·6	144·7	46·4	55·4	55·9	19·7	51·3	78·2	46·6	37·8
200·3	22·9	11·3	8·6	18·0	17·5	19·3	26·2	32·9	91·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 12th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for Irrigation up to the end of October 1889.

CIRCLE.	DISTRICT.	CANAL.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								RAINFALL, 1889-90.		RAINFALL, 1888-89.		REMARKS.
								Five years, all crops.	Five years, Kharif.	ANNUAL LEASES.										
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.	Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.	
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st Reach.	1,342	442	189	10,483	8,925	.....	10,483	.....	384	12	.....	.....	396	10,879	8·45	60·19	0·63	57·58	
		Taldunda, 2nd Reach.	586	239																	
		Machgong ...	776	252	240	27,748	23,067	.....	27,748	.....	222	14	.....	.....	236	27,984	8·75 / 11·15	56·35 / 63·53	0·10 / 1·80	42·72 / 46·93	
		Kendrapara ...	1,067	652·23	516·54	47,959	46,239	.....	51,305	42	3,963	36	.....	.....	4,061	55,366	5·20	59·06	0·46	54·44	
		Gobri ...	372·62	69·07	39 90	1,844	1,457	.....	2,148	.....	215	3	.....	.....	218	2,366	8·50	60·62	0·55	44·42	
		Gobri Extension	648	82·57	22·61	1,840	.....	.....	1,559	.....	7	.....	.....	.....	7	1,566	No gauge fixed.				
		Paitamoondi	885	253·17	170·28	7,506	7,133	.....	9,303	.....	543	.....	.....	.....	543	9,846	... ..	.....	.....	... ..	
		High Level, Range I.	609	261·91	213·85	18,240	16,343	.....	17,188	.....	480	3	.....	.....	483	17,671	[8·31	63·08	0·05	37·59	
		High Level, Range II.	727·16	64·00	17·57	2,370	1,986	.....	2,374	.....	61	.....	.....	.....	61	2,435	.....	.....	.....	.....	
	Balasore ...	High Level, Range III.	727·16	611·05	562·00	35,749	11,310	.....	34,096	.....	.....	83	.....	.....	83	34,184	4·13	40·48	1·79	49·41	
		Total ...	.....	.....	.....	153,829	116,480	.....	156,204	42	5,895	156	... .	... .	6,093	162,297	.. ...	.... .	.....	.. ...	
	Total of the corresponding period of last year.		.....	.....	.....	.....	.....	.....	111,655	112	2,625	169	.....	.....	2,906	114,561	.....	.....	.....	... ..	
SOUTH-WESTERN.	Midnapore ...	Midnapore ...	1,411	1,061	530	61,584	46,530	.....	60,208	.....	.....	.....	.....	.....	.....	60,208	2·27	42·08	0·79	61·50	Whole month discharging.
		Panchkoorah ...	522	93	60	3,493	4,616	.....	4,335	.....	.....	.....	.....	.....	.....	4,335	4·45	49·54	1·85	55·16	24 days discharging.
	Howrah ...	Tidal Reaches Ranges I and II.	.....	.....	.....	357	389	.....	312	.....	.....	.....	.....	.....	.....	312	.....	.....	.....	.....	
		Total ...	.....	.....	.....	65,434	51,535	.....	64,855	.....	.....	.....	.....	.....	.....	64,855	... ..	.....	.....	.....	
	Total of the corresponding period of last year.		.....	.....	.....	.....	.....	.....	52,334	5	.....	.....	.....	.....	5	52,339	.....	.....	.....	.....	
SOUTH	Shahabad ...	Western Main ...	4,343	3,139	136	14,804	13,254	14,988	.....	2,762	767	159	38	284	4,010	18,998	0·86	41·93	0·30	39·72	
		Buxar	1,226	953	749	61,219	48,086	44,168	.....	21,618	321	2,006	843	3,335	28,122	72,290					
		Arrah	2,000	1,945	1,824	119,867	122,369	86,459	.....	27,445	.....	2,194	192	8,373	38,204	124,663	1·71	41·10	0·28	36·49	
	Patna and Gya.	Eastern Main ...	1,466	1,332	1,145	1,319	1,570	1,091	.....	702	... ..	13	2	.....	717	1,808	.....	45·67	.....	41·15	
		Patna				51,625	52,315	36,764	.....	17,453	216	271	287	.....	18,227	54,991					
		Total ...	.....	.....	... ..	249,834	237,594	183,470	.....	69,980	1,304	4,643	1,361	11,993	89,280	272,750	.....	.....	.....	.....	
	Total of the corresponding period of last year.		.....	.....	.....	.....	.....	159,921	.....	53,994	1,003	3,050	330	9,054	67,431	257,352	.....	.....	.....	.....	
	Grand Total ...		.....	.....	.....	468,097	405,609	183,470	221,059	70,022	7,199	4,799	1,361	11,993	95,373	499,903	.... .	.....	.....	.....	
	Grand Total of the corresponding period of last year		.....	.....	.....	.....	.....	159,921	163,989	54,111	3,628	3,219	330	9,054	70,342	424,252	.....	.....	.....	.....	

CALCUTTA;
13th January 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 11th January 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 11th January 1890.			Week ending Saturday, the 12th January 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	2,151	2,99,830	5,298	1,745	4,01,590	7,290
Jute	248	1,51,400	2,642	199	1,25,225	2,252
Firewood	161	93,775	1,363	147	81,425	1,207
Other articles	1,107	2,50,460	3,707	1,200	2,22,620	3,398
Total ...	3,667	7,95,465	13,010	3,291	8,30,860	14,147

Note.—The total amounts of tollage for the week ending the 4th January 1890 and the corresponding week of the previous year should be Rs. 11,963 and Rs. 11,603 instead of Rs. 21,963 and Rs. 11,963 as published at page 60 of the Supplement to the *Calcutta Gazette* of the 8th January 1890.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of October 1889, *as compared with the same month of the previous year.*

Staples.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	6,440	2,226	8,310	2,190	8,666	10,410	.....	1,744
Cotton, raw	64	221	41	98	285	189	140	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,720	77	2,922	207	2,797	3,029	.....	232
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2,354	1,343	1,868	6,690	3,697	8,558	.....	4,861
5.—Others	760	5,380	1,610	4,555	6,140	6,165	.....	25
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	8	664	10	869	672	879	.....	207
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	12,295	1	9,670	12,295	9,671	2,624	.....
b.—Unscrewed	141	49,664	58	71,361	49,805	71,419	.....	21,614
2.—Gunny-bags and cloth	125	853	149	1,724	978	1,873	.....	895
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	703	146	800	95	849	985	.....	136
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	408	9	410	11	417	421	.....	4
3.—Others	212	24	153	34	236	189	47	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	90	781	175	1,708	871	1,883	.....	1,012
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	99	772	121	427	871	548	323	.....
3.—Others	428	729	481	293	1,157	773	384	.....
Railway plant and rolling-stock	3,917	1,883	2,424	815	5,800	3,239	2,561	.....
Salt	3,138	26	3,289	29	3,164	3,318	.....	154
Sugar—								
1.—Drained	481	206	663	318	688	981	.....	293
2.—Undrained								
Tea—								
1.—Foreign	.....	2,298	18	1,748	2,298	1,766	532	.....
2.—Indian								
Wood—								
1.—Timber	84	83	141	128	167	269	.....	102
2.—Firewood	1,989	.....	1,814	.....	1,989	1,814	175	.....
Tobacco	47	1,398	66	1,249	1,445	1,315	130	.....
All other articles of merchandise—								
1.—Unmanufactured	2,370	1,050	2,498	1,465	3,420	3,963	.....	543
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Section) ...	641	.....	606	.....	641	606	35	.....
Total ...	27,220	82,128	28,620	105,593	109,348	134,213	6,957	31,822

Comparative Statement of traffic, Eastern Bengal State Railway, for October 1889.

INCREASES.

	Tons
Jute, screwed	2,624
Is due to extensive despatches during the month from Goalundo, Rungpore, Kaunia, and Haldibari chiefly.	
Hay, straw and wooloo	35
From Mogra Hât principally.	
Firewood	175
From Bansra and Canning principally.	

DECREASES.

Coal	1,744
Due to sufficient stock for railway and flotilla purposes.	
Rice	4,861
This decrease is due to a partial failure of the crops.	
Jute, unscrewed	21,614
Heavy decrease is due to the dulness of the market, and an increase in the despatches of baled jute, and also to the jute crop having come down unusually earlier in 1888.	

CALCUTTA, *the 30th December* 1889.

F. P. QUINLAN,
Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of October 1889, *as compared with the same month of the previous year.*

STAPLES.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,014	1	904	....	1,015	968	47	.....
Cotton, raw	1	1	2	.....	2	2	....	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	358	.....	270	.	358	270	88	.....
b.—In boxes .								
2.—Indian—								
a. In bales and bundles .. .								
b.—In boxes								
Grains—								
2.—Rice	127	28	6	314	155	320	.....	165
5.—Others	82	93	59	139	175	198	.....	23
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	1	28	...	28	29	28	1	. ....
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	.....	.....	26	...	26	.....	26
b.—Unscrewed	.....	5,428	.....	12,021	5,428	12,021	.....	6,593
2.—Gunny bags and cloth	4	1	3	.....	5	3	2	.....
Metals—								
1.—Copper, unwrought								
2. Brass, unwrought								
3.—Brass and copper, wrought	30	9	54	24	30	78	.....	39
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	97	.....	96	.....	97	96	1	.....
3.—Others	91	.....	51	.....	91	51	40	.
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	31	45	91	97	76	188	.....	112
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	.....	739	3	386	739	389	350	.....
3.—Others	7	54	40	24	65	64	1	..
Railway plant and rolling-stock	35	20	94	87	55	181	...	96
Salt	217	4	228	.....	221	228	... ..	7
Sugar—								
1.—Drained	15	171	16	295	186	311	.....	125
2.—Undrained								
Wood—								
1.—Timber	...	.....	24	25	. .	49	.....	49
2.—Firewood								
Tobacco	16	30	28	22	52	50	2	.....
All other articles of merchandise—								
1.—Unmanufactured	393	179	300	298	574	598	.....	24
2.—Manufactured								
Total ...	2,521	6,841	2,333	13,756	9,362	16,089	582	7,289

Comparative Statement, Bengal Central Railway, for October 1889.

INCREASES.

	Tons.
Coal	138
This slight increase is probably due to a greater demand required for railway and flotilla consumption.	

DECREASES.

Jute	6,846
There was no great demand, and the market was steadily dull throughout this month.	

CALCUTTA, *the 7th January* 1890.

F. P. QUINLAN,
Examiner of Accounts.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the four weeks ended 23rd November 1889, as compared with the same period of 1888.

Staples.	1889.		1888.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living — Horses, ponies, and mules	No. 635	8,819	No. 637	7,553	No.	1,266	No. 2	.....
Animals, living — Cattle	,, 1,088	5,144	,, 503	3,776	,, 525	1,368	,, ...	.....
Animals, living — Sheep and goats	,, 4,026	3,232	,, 3,213	2,257	,, 813	975	,, ...	.....
Animals, living — Other kinds	,, ...	.....	,, ...	.....	,, ...	.....	,, ...	.....
Borax	1,115	778	314	237	801	521	.....	.....
Canes and rattans	95	75	97	72	.....	3	.....	.....
Caoutchouc (Indian-rubber)	.....	.....	.....	.....	.....	.....	2	.....
Chinese and Japanese ware	37	60	88	119	.....	.....	.....	.....
Coal and coke, up	5,62,399	1,45,617	5,20,789	1,71,517	41,810	.....	51	59
Coal and coke, Ditto, down	19,55,617	2,64,037	24,03,727	3,39,507	.....	.....	.....	26,000
Cotton, raw	2,08,890	1,04,427	63,203	61,812	1,45,677	44,115	4,48,110	75,470
Cotton, manufactured — Twist and yarn (European)	7,749	9,048	7,693	10,186	76	.....	.....	.....
Cotton, manufactured — Ditto (Indian)	12,907	7,483	14,380	9 106	.....	.....	.....	240
Cotton, manufactured — Piece-goods (European)	1,55,550	1,75,205	1,93,390	2,22,390	.....	.....	1,383	1,623
Cotton, manufactured — Ditto (Indian)	22,547	20,352	27,700	25,930	.....	.....	37,840	47,184
Drugs and medicines — Asafœtida	387	252	681	412	.....	.....	5,153	5,578
Drugs and medicines — Other sorts, not intoxicating	1,433	1,690	1,672	1,735	.....	.....	274	210
Drugs and medicines — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	735	528	810	456	125	72	139	45
Dyeing materials — Indigo	47,909	1,02,751	29,301	60,207	18,608	42,544	.....	.....
Dyeing materials — Madder or manjit	.....	.....	.....	.....	.....	.....	.....	.....
Dyeing materials — Safflower	110	19	146	30	.....	.....	36	11
Dyeing materials — Turmeric	7,460	5,546	7,666	5,740	.....	197	206	.....
Dyeing materials — Other kinds	5,881	2,954	6,277	2,889	.....	65	396	.....
Earthenware and porcelain	742	1,835	752	1,853	.....	.....	10	18
Fibrous products — Jute, raw	65,402	10,688	1,50,979	28,204	.....	.....	85,577	17,026
Fibrous products — Do., manufactured (gunny bags and cloths)	59,636	32,416	60,139	32,621	.....	.....	503	205
Fibrous products — Other fibres, raw	20,523	5,703	27,361	6,508	.....	.....	6,838	715
Fibrous products — Ditto, manufactured	1,149	419	1,221	369	.....	50	74	.....
Fruits & Nuts — Cocoanuts	5,401	2,299	5,552	2,904	.....	.....	151	607
Fruits & Nuts — All other kinds	41,538	37,320	30 998	32,906	4,540	5,014	.....	.....
Grain & Pulses — Wheat	2,21,665	70,935	3,63,065	89,475	.....	.....	1,41,400	18,540
Grain & Pulses — Gram and pulses	1,77,728	53,318	2,33,138	87,658	.....	.....	55,410	29,340
Grain & Pulses — Rice, husked	4,65,338	59,929	4,90,0 8	92,4 9	.....	.....	30,480	32,500
Grain & Pulses — Do., unhusked	30,812	5,163	74,8 2	8,233	.....	.....	35,070	3,070
Grain & Pulses — Other rain and spring crops	1,47,372	29,167	1,57,852	28 8 7	.....	300	10,480	.....
Government stores	20,163	25,309	23,525	26,436	.....	.....	3,362	1,067
Gums and resins	5,517	3,993	4 5 8	3,2 4	934	709	.....	.....
Hides & Skins — Hides of cattle	50,158	24 7 8	53,290	28,998	.....	.....	3,132	4,210
Hides & Skins — Skins of sheep, goats, and small animals	12,087	5,007	12,493	6,620	.....	.....	406	1,559
Horns	636		1,1 0	552	.....	.....	512	414
Lac — Lac, dye	374	193	374	193	.....	.....	.....	.....
Lac — Do., shell	11,018	8,492	16,899	13,35	.....	.....	5,581	4,867
Lac — Do., stick and other kinds	16,585	5,170	21,426	6,188	.....	.....	4,841	1,018
Leather — Leather, unmanufactured	2,373	3,888	2,836	4,509	.....	.....	283	621
Leather — Ditto, manufactured	2,929	4,154	3,9 5	6,078	.....	.....	993	1,925
Liquors	15,337	14,527	16,2 6	14,0 5	.....	502	908	.....
Mats	603	220	575	183	228	37	.....	.....
Minerals	1,18,102	20 855	88,28	17,156	30,717	3,699	.....	.....
Metals and manufactures of — Brass and copper	28,048	21,818	13,353	9,079	12,695	12,739	.....	.....
Metals and manufactures of — Iron	85,566	48,675	1,05,507	54,44	.....	.....	19,941	.....
Metals and manufactures of — Other metals	7,601	6,763	4,235	3,743	.....	.....	.....	5,774
Oils	93,061	56,789	53,027	28,346	40,034	28,443	.....	.....
Opium	12,102	13,781	32,255	32,412	.....	.....	20,153	18,631
Paints and colours	15,412	2,085	2,771	2,049	12,641	36	.....	.....
Provisions — Ghee	23,902	16,559	22,289	13,801	1,613	2,754	.....	.....
Provisions — Other kinds	8,434	7,501	8,048	8,697	.....	.....	224	1,396
Railway materials, Construction Account	60,867	1,697	82,259	2,676	.....	.....	21,392	979
Railway materials, Ditto ditto, Foreign	1,24,832	65,207	1,04,326	62,82	20,506	2,380	.....	.....
Salt	6,47,776	1,32,065	5,38,327	1,11,207	1,14,549	10,858	.....	.....
Saltpetre, &c. — Saltpetre	65,983	27,215	53,674	22,183	12,309	5,032	.....	.....
Saltpetre, &c. — Other saline substances	10,565	3,798	16,868	4,792	.....	.....	6,303	994
Seeds — Oil-seeds — Linseed	1,40,300	48,949	3 83,700	1,10,86	.....	.....	2,34,340	61,920
Seeds — Oil-seeds — Mustard and rape	1,44,391	32,870	1,30,61	27,370	13,780	5,500	.....	.....
Seeds — Oil-seeds — Til or ginjelly	3,818	1,041	7,008	1,941	.....	.....	3,190	900
Seeds — Oil-seeds — Other oilseeds	71,901	23,904	84,501	24,894	.....	.....	12,600	990
Seeds — Other seeds — Indigo seed	2,964	929	5,454	1,339	.....	.....	2,490	419
Seeds — Other seeds — Tea seed	.....	.....	.....	.....	.....	.....	.....	.....
Seeds — Other seeds — Other kinds	94,144	19,585	37,384	9,296	56,760	10,290	.....	.....
Silk — Silk, raw	1,354	968	1,474	1,030	.....	.....	120	62
Silk — Do., manufactured (European)	.....	.....	.....	.....	.....	.....	.....	.....
Silk — Do., ditto (Indian)	233	286	189	188	44	98	.....	.....
Special	15,907	7,858	10,780	7,33	5,147	520	.....	.....
Stone and marble	1,13,650	14,518	90,0 8	11,715	26,998	2,803	.....	.....
Sugar — Sugar, refined	64,348	21,001	75,475	20,05	.....	335	11 127	.....
Sugar — Do., unrefined	1,21,989	35,011	53,191	16,711	68,798	18,097	.....	.....
Tea — Tea, Indian	4,134	4,319	4,874	6,344	.....	.....	740	2,025
Tea — Do., Foreign	66	41	55	36	11	5	.....	.....
Tobacco	33,760	14,903	27,391	10,570	6,37	4,33	.....	.....
Wood — Timber	26,281	5,0 8	19,009	2,902	6,771	2,101	.....	.....
Wood — Firewood	20,910	1,382	15,8 4	952	5,056	430	.....	.....
Wool — Wool, raw	1,409	716	1,884	1,080	.....	.....	475	364
Wool — Do., manufactured (European)	.....	.....	.....	.....	.....	.....	.....	.....
Wool — Wool, manufactured (Indian)	4,412	5,375	5,362	7,062	.....	.....	950	1,687
Wool — Shawls	.....	.....	.....	.....	.....	.....	.....	.....
All other articles of merchandise	2,14,076	1,57,878	2,72 439	1,76,691	.....	.....	57,453	18,713
Bones	22,135	5,972	22,163	6,112	.....	.....	28	140
Potatoes	37,993	25,1 8	28,052	15,13	9,961	10,018	.....	.....
Total	68,27,074	21,06,401	74,43,234	22,74,257	6,54,900	2,22,451	12,71,160	3,90,307

General remarks on the fluctuation of staples carried over the East Indian Railway during four weeks ended 23rd November 1889.

INCREASES.

Cotton.—The increase under this head is due to despatches of cotton from stations in the North-Western Provinces to Calcutta for export and to Bombay for local consumption.

Indigo.—Due to the season this year being earlier than last.

Fruits, other kinds.—This was in betelnuts from Howrah.

Minerals.—Principally in lime from Rajband, Durgapur, Raneegunge, and Asansol on the chord line and from Katni on the Jubbulpore line for Calcutta.

Brass and Copper.—This increase was in despatches of the unmanufactured article from Howrah and of manufactured ware from Mirzapur; the corresponding month of 1888 showed a heavy decline in the brass and copper traffic owing to the high rates then prevailing.

Oil.—This increase was in kerosine oil from Howrah.

Potatoes.—Due chiefly to despatches of hill potatoes from the North-Western and Oudh and Rohilkhand Railways.

Other rain and spring crops.—There was a decrease in the weight carried attended with an increase in earnings, and this was principally due to there having been in 1888 a heavy short-distance traffic coming to us from the Bengal and North-Western Railway.

Railway material, Foreign.—The increase was due to considerable despatches, during the early portion of the month, of permanent-way materials for the Delhi-Umballa-Kalka Railway.

Salt.—This was chiefly in the despatches of salt from Howrah.

Saltpetre.—The increase was principally from Patna and from the Bengal and North-Western and Oudh and Rohilkhund Railways to Howrah.

Stone.—Chiefly in despatches of road metal from Pakur on the loop line to Calcutta.

Sugar and jaggree.—In earnings the largest increase was from stations on the Patna-Gya line, which despatch principally to the Great Indian Peninsula Railway *vid* Jubbulpur. In weight carried we dealt with a heavy cross and short-lead traffic from the Oudh and Rohilkhund Railway *vid* Aligarh and the North-Western Railway.

Tobacco.—Principally from Barh and the Tirhoot State Railway.

DECREASES.

Coal and coke.—In upwards traffic there was an increase in the weight carried attended with a decrease in the earnings, and this was due to the shorter average lead. The decrease in the downward traffic is due to consignments for export having been held back owing to a difficulty in obtaining steamers in which to ship coal.

Piece-goods.—The decrease was principally in despatches from Howrah, which were very brisk during the corresponding period of 1888.

Jute, raw.—The decrease was principally in traffic from the Assam-Behar State Railway *vid* Sahebgunge owing to the jute crop in the Purneah district having suffered this year owing to floods.

Wheat.—Due to there being no demand for export to Europe.

Gram and Pulses.—There were exceptional despatches last year from Delhi and the Punjab to Howrah to meet requirements on the east coast, where a famine was apprehended.

Rice (husked and unhusked).—There was an increase in the downward traffic, but despatches up-country fell off owing to there having been an exceptional demand last year.

Hides and skins.—The decrease was principally in despatches from the Tundla district to Howrah owing to want of demand.

Lac.—Principally in shellac from Mirzapur to Howrah.

Iron.—The decrease was principally in consignments from the Barakar Iron Works and in despatches of sugarcane rollers from Delhi and Delhi-Shahdara.

Opium.—Despatches were held over by the Government authorities owing to unsettled weather.

Seeds.—The decrease was chiefly in linseed, and was due to exhaustion of stocks.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *8th January* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the last 10 *days of December* 1889, *on* 1,525½ *miles open*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period .	306,189	3,99,349 10 0	35,75,782 30	8,29,203 0 0	36,039 14 0	12,65,492 8 0	93,300½	118,204	211,504½
Or per mile of railway	.....	261 12 6	.....	543 9 0	24 3 5	829 8 11	..	.....	
For previous 25 weeks of half-year	5,995,471	67,81,948 1 0	5,38,80,113 30	1,22,49,471 10 0	2,87,399 7 5	1,92,68,819 2 5	1,645,449½	2,034,427½	3,679,877½
Total for 26 weeks ...	6,301,660	71,81,297 11 0	5,74,55,896 20	1,30,78,674 10 0	2,74,339 5 5	2,05,34,311 10 5	1,738,750½	2,152,631½	3,891,382
COMPARISON.									
Total for corresponding period of previous year ...	275,693	3,54,376 2 1	36,63,108 30	8,39,471 14 5	—37,862 14 5	11,35,885 1 10	83,320½	128,542½	210,862½
Per mile of railway corresponding period of previous year	.....	251 14 5	.....	550 4 8	—57 9 6	744 9 7	..	.....	...
Total to corresponding date of previous year	6,076,968½	69,11,491 0 6	6,25,84,315 30	1,33,58,091 11 3	3,44,838 5 5	2,06,15,021 1 3	1,712,728½	2,186,443½	3,899,171½

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

Receipts for the last 9 days of December 1888.			Receipts for the last 10 days of December 1889.			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	11,35,885	745	1,525½	12,05,493	850	1,525½	3,23,39,720	547	1,525½	3,25,61,067	547	21,341	.....

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for the last 10 *days of December* 1889, *on* 57½ *miles open*

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A P	Mds. s.	Rs. A. P.	Rs A. P.	Rs A. P			
Total traffic or the period ...	19,507	11,315 7 0	52,079 0	3,119 0 0	50 0 0	14,825 0 0	2,547	1,892	4,439
Or per mile of railway	341	198 2 9	910 20	60 2 1	0 14 0	259 2 10	.....	.....	.....
For previous 25 weeks of half-year	*340,835	*1,94,173 6 0	†11,12,808 20	†57,769 13 0	‡1,662 9 3	2,53,605 12 3	39,905½	18,186	58,089½
Total for 26 weeks ...	360,342	2,05,508 13 0	11,64,887 20	61,269 6 0	1,712 9 3	2,68,430 12 3	42,450½	20,078	62,528½
Comparison									
Total for corresponding period of previous year . ..	16,286	8,977 15 4	50,746 30	2,661 14 0	652 12 9	12,292 10 1	2,393	824	3,216
Per mile of railway corresponding period of previous year .	285	156 15 4	887 10	46 8 7	11 6 7	214 14 6	.....	.....	.....
Total to corresponding date of previous year	347,173½	1,90,802 3 6	10,81,477 30	61,963 9 0	2,067 1 6	2,54,832 14 0	48,059	17,970	66,029

* Added number of passengers 7,745 and Rs. 5,247
† Ditto maunds 53,500 „ 804 } on account of differences between the approximate and audited returns to week ended 23rd November 1889.
Ditto „ 52
‡ Ditto

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the last 9 days of December 1888.			Receipts for the last 10 days of December 1889			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs	Rs.	Rs.
57½	12,293	215	57½	14,825	259	57½	3,03,753	105	57½	*3,22,431	171	13,673	.....

* Added Rs. 6,143 on account of difference between the approximate and audited figures to week ended 23rd November 1889.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the last 10 *days of December* 1889, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ..	22,680	5,936 12 0	10,601 20	424 6 0	10 0 0	6,371 2 0	1,296	90	1,386
Or per mile of railway ...	.....	266 13 2	.. ...	19 1 2	0 7 2	286 5 6	.....	.....	.....
For previous 25 weeks of half-year	*440,748	*1,07,968 2 0	†2,35,232 10	†6,849 1 0	‡155 3 6	1,14,992 6 6	23,958	2,112	25,070
Total for 26 weeks ...	463,428	1,13,924 14 0	2,45,923 30	7,273 7 0	165 3 6	1,21,363 8 6	24,254	2,202	26,456
Comparison.									
Total for corresponding period of previous year	21,534½	5,519 0 0	8,462 10	370 5 0	13 10 6	5,902 15 6	1,180	74	1,254
Per mile of railway corresponding period of previous year	.....	244 0 9	.	16 10 3	0 9 10	265 4 10	.... .	... .	....
Total to corresponding date of previous year	464,551½	1,14,980 15 5	1,35,528 20	5,371 11 0	182 6 0	1,20,535 0 5	24,258	1,284	25,542

* Added number of passengers 1,250 and deducted Rs. 614
† Ditto maunds 11,570 and „ 57 } on account of differences between the approximate and audited returns to week ended 23rd November 1889
‡ Ditto „ 6

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for the last 9 days of December 1888.			Receipts for the last 10 days of December 1889.			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,933	265	22½	6,371	286	22½	2,06,882	218	22½	*2,03,996	235	....	2,886

* Deducted Rs. 551 on account of difference between the approximate and audited figures to week ended 23rd November 1889.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for last 10 days of December 1889, on 747 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-Mile Run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 10 days ..	182,780	1,05,310 0 0	8,57,090 0	2,19,100 0 0	31,120 0 0	3,55,930 0 0	33,000	47,000	80,000
Or per mile of railway ...	245	141 0 0	1,147 0	293 0 0	†18 0 0	452 0 0	.....	.....	... .
For previous 25 weeks of half-year	3,593,408	16,58,444 0 0	1,59,46,756 0	40,47,210 0 0	4,41,127 0 0	*61,46,781 0 0	552,766	745,091	1,298,857
Total for 26 weeks .	3,776,188	17,63,754 0 0	1,68,03,846 0	42,66,310 0 0	4,72,647 0 0	65,02,711 0 0	585,766	793,091	1,378,857
COMPARISON.									
Total for corresponding 9 days of previous year ...	171,372	70,903 0 0	8,89,715 0	2,38,181 0 0	50,659 0 0	3,59,743 0 0	29,969	40,170	70,139
Per mile of railway corresponding period of previous year ..	255	105 0 0	1,322 0	354 0 0	†36 0 0	495 0 0	.....	.....	.....
Total to corresponding date of previous year	3,575,846	16,13,140 0 0	1,62,61,990 0	42,03,141 0 0	4,71,636 0 0	62,86,917 0 0	548,261	807,717	1,355,978

* Audited up to week ending 23rd November 1889.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for last 9 days of December 1888.			Receipts for last 10 days of December 1889.			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889-90	Total decrease in 1889-90
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	3,59,743	535	747	3,55,940	477	673	82,42,389	314	722	*86,38,163	307	3,95,774	... .

* Audited up to week ending 23rd November 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for last 10 days of December 1889, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-Miles Run.		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds s.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 10 days ...	33,940	15 250 0 0	45,860 0	3,540 0 0	580 0 0	19,380 0 0	5,500	3,000	8,500
Or per mile of railway	259	122 0 0	367 0	28 0 0	5 0 0	155 0 0	.....	.....	.....
For previous 25 weeks of half-year	689,877	2,42,726 0 0	13,82,562 0	1,25,067 0 0	5,496 0 0	*3,73,279 0 0	89,633	56,438	146,131
Total for 26 weeks ...	723,217	2,57,976 0 0	14,28,422 0	1,28,607 0 0	6,046 0 0	3,92,629 0 0	95,193	59,438	154,631
COMPARISON.									
Total for corresponding last 9 days of previous year	28,330	15,398 0 0	61,810 0	3,510 0 0	280 0 0	19,108 0 0	3,310	4,161	7,471
Per mile of railway corresponding period of previous year ..	227	123 0 0	494 0	28 0 0	2 0 0	153 0 0	.....	.....	.....
Total to corresponding date of previous year	694,533	2,37,980 0 0	15,05,021 0	1,44,205 0 0	2,168 0 0	3,84,353 0 0	93,629	65,943	159,570

* Audited up to week ending 23rd November 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for last 9 days of December 1888.			Receipts for last 10 days of December 1889			Total receipts from 1st April 1889 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	19,168	153	125	19,380	155	125	5,46,155	112	125	*5,72,477	117	26,322	... ..

* Audited up to week ending 23rd November 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for last 10 days of December 1889, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 10 days	24,060	8,280 0 0	50,540 0	5,490 0 0	230 0 0	14,000 0 0	3,600	3,300	6,900
Or per mile of railway ..	280	96 0 0	588 0	64 0 0	3 0 0	163 0 0	..	..	..
For previous 25 weeks of half-year	385,488	1,26,578 0 0	7,39,090 0	62,298 0 0	5,191 0 0	*1,94,067 0 0	62,670	22,418	85,088
Total for 26 weeks ..	409,548	1,34,858 0 0	7,90,230 0	67,788 0 0	5,421 0 0	2,08,067 0 0	66,270	25,718	91,988
COMPARISON.									
Total for corresponding last 9 days of previous year	19,305	6,309 0 0	32,035 0	3,734 0 0	154 0 0	10,227 0 0	3,100	858	3,958
Per mile of railway corresponding period of previous year	224	73 0 0	453 0	44 0 0	2 0 0	119 0 0	.....	.....	.....
Total to corresponding date of previous year	374,430	1,19,101 0 0	4,16,548 0	34,465 0 0	4,917 0 0	1,58,483 0 0	65,804	17,196	83,089

* Audited up to week ending 23rd November 1889.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for last 9 days of December 1888.			Receipts for last 10 days of December 1889.			Total receipts from 1st April 1888 to 31st December 1888			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs	Rs		Rs.	Rs.	Rs.	Rs.
86	10,227	119	86	14,000	163	86	2,23,474	67	86	*2,83,234	84	59,760	.. .

* Audited up to week ending 23rd November 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for last 10 days of December 1889, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	4,158	1,592 0 0	24,123 0	1,326 0 0	29 0 0	2,949 0 0	727	363	1,090
Or per mile of railway ..	153	58 0 0	885 0	49 0 0	1 0 0	108 0 0	.....	.....	.....
For previous 24 weeks of half-year	79,209	28,440 0 0	2,36,286 0	14,949 0 0	1,505 0 0	44,954 0 0	12,052	10,146	22,798
Total for the half-year ..	83,367	30,032 0 0	2,60,411 0	16,277 0 0	1,534 0 0	47,903 0 0	13,779	10,509	23,888
COMPARISON.									
Total for corresponding period (for last 9 days) of previous year	3,639	1,367 0 0	18,126 0	1,066 0 0	15 0 0	2,448 0 0	654	505	1,159
Per mile of railway corresponding week of previous year ...	134	50 0 0	665 0	39 0 0	1 0 0	90 0 0	.....	.....	... ..
Total to corresponding date of previous year ...	a79,360	28 499 0 0	3,09,026 0	18,211 0 0	2,103 0 0	48,813 0 0	12,278	11,686	23,964

a Includes figures for supplementary adjustments.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for last 9 days of December 1888.			Receipts for last 10 days of December 1889.			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,448	90	27½	2,949	108	27½	a75,341	73	27½	73,722	71	.....	1,619

a Includes figures for supplementary adjustments.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for last 10 *days of December* 1889, *on* 273 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week	51,339	22,556 0 0	2,78,064 0	32,074 0 0	6,237 0 0	61,467 0 0	7,021	10,465	18,089
Or per mile of railway ...	188	83 0 0	1,019 0	120 0 0	4 0 0	227 0 0*	..	..	..
For previous 24 weeks of half-year	1,002,073	3,69,238 0 0	43,48,973 0	4,28,462 0 0	94,089 0 0	8,93,319 0 0	132,568	137,297	269,865
Total for the half-year ...	1,054,012	3,91,794 0 0	45,27,037 0	4,61,136 0 0	1,01,326 0 0	9,54,786 0 0	140,189	147,762	287,944
Comparison.									
Total for corresponding period (for last 9 days) of previous year	43,215	16,519 0 0	1,45,780 0	14,247 0 0	3,188 0 0	33,954 0 0	7,504	5,389	12,893
Per mile of railway corresponding week of previous year	158	61 0 0	534 0	52 0 0	1 0 0	114 0 0*	.....	..	..
Total to corresponding date of previous year	a1,002,827	3,53,539 0 0	33,70,141 0	3,09,611 0 0	88,713 0 0	7,51,863 0 0	129,671	140,365	270,236

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
a Includes figures for supplementary adjustments.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for last 9 days of December 1888			Receipts for last 10 days of December 1889			Total receipts from 1st April 1888 to 31st December 1888.			Total receipts from 1st April 1889 to 31st December 1889.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs	Rs.		Rs	Rs	Rs	Rs.
273	33,954	124	273	61,467	225	263·68	a12,40,503	125	273	14,79,154	143	2,29,651	...

a Includes figures for supplementary adjustments.

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[REGISTERED No. 29.]

No. 4 of 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 22, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 157A.

GENERAL.—*The 30th December* 1889.—Mr. B. G. Geidt, Covenanted Deputy Collector, is appointed to perform the functions of a Collector under section 4 of Act VII (B.C.) of 1880 in the district of Sarun.

The 16th January 1890.—Mr. R. H. Renny, Assistant Commissioner, Palamow, Lohardugga, is appointed to act as Deputy Commissioner of Manbhoom, during the absence, on leave, of Mr. E. N Baker, or until further orders.

Mr. J. T. Jarbo, Deputy Magistrate and Deputy Collector, Lohardugga, is appointed to have charge of the Palamow sub-division of that district during the absence, on deputation, of Mr. R. H. Renny, or until further orders.

The 17th January 1890.—In modification of the order of the 31st ultimo, Baboo Kedar Nath Biswas, Deputy Magistrate and Deputy Collector, is transferred to the district of Nuddea, and is appointed to have charge of the Ranaghat sub-division of that district.

Baboo Bejoy Madhub Mookerjee, Deputy Magistrate and Deputy Collector, Ranaghat, Nuddea, is transferred to the district of Jessore, and is appointed to have charge of the Narail sub-division of that district.

Baboo Juggut Doorlub Bysack, Deputy Magistrate and Deputy Collector, Narail, Jessore, is transferred to the Sudder station of the district of Cuttack.

The services of Mr. F. A. Slack, Officiating Magistrate and Collector, Chittagong, are placed at the disposal of the Revenue Department of this Government.

Mr. C. P. Caspersz is appointed to act temporarily as Magistrate and Collector of Chittagong on being relieved of his present appointment as Officiating District and Sessions Judge of Noakholly.

The order of the 15th January 1889, appointing Baboo Jugut Chunder Roy, Sub-Deputy Collector, Basirhat, 24-Pergunnahs, to be a Special Deputy Collector for employment under the Burdwan Estate in Midnapore, and placing his services at the disposal of the Revenue Department of this Government, is cancelled.

Kumar Girindra Narain Deb, Officiating Joint-Magistrate and Deputy Collector, Jessore, is posted temporarily to the Sudder station of the district of the 24-Pergunnahs.

The 18th January 1890.—Mr. H. Cox, Joint-Magistrate and Deputy Collector, Sewan, Sarun, is allowed leave for thirty-five days under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The 20th January 1890.—Moulvie Husmut Hossein, Sub-Deputy Collector, Patna, is allowed leave for ten days, under article 291 of the Civil Service Regulations, with effect from the 3rd proximo, or such subsequent date as he may avail himself of it.

The 21st January 1890.—Mr. G. A. Grierson, Officiating Magistrate and Collector, Gya, is allowed furlough for eight months, under article 340 of the Civil Service Regulations, with effect from the 1st March 1890 or such subsequent date as he may avail himself of it.

The order of the 13th November 1889, transferring Baboo Kherode Chunder Sen, Temporary Deputy Magistrate and Deputy Collector, Dinagepore, to Tipperah, is cancelled.

POLICE.—*The 21st January* 1890.—Mr. W. J. Kilby, District Superintendent of Police, Rungpore, is transferred to Moorshedabad.

Mr. C. P. Crouch, District Superintendent of Police, Balasore, is transferred to Rungpore.

Mr. G. R. K. Meares, District Superintendent of Police, Moorshedabad, is transferred to Purneah.

Mr. J. B. Birch, District Superintendent of Police, Julpigoree, is transferred to Monghyr.

Mr. C. E. Gouldsbury, District Superintendent of Police, Purneah, is transferred to Balasore.

Mr. F. Wilcox, District Superintendent of Police, Backergunge, on leave, is transferred to Howrah.

Mr. H. S. Schurr, District Superintendent of Police, Howrah, is transferred to Backergunge.

Baboo Jadub Chunder Deb, Assistant Superintendent of Police, Burdwan, is transferred to the 24-Pergunnahs.

Mr. R. Castle, Assistant Superintendent of Police, is posted to Moorshedabad on being relieved of his present appointment as Assistant Superintendent of Police in charge of the district police of Backergunge.

Mr. J Cowie, Assistant Superintendent of Police, in charge of the district police of Dinagepore, is transferred to Julpigoree, and appointed temporarily to have charge of the district police of that district.

ECCLESIASTICAL.—*The 16th January* 1890.—The Revd. G W. Panes, in charge of the Bethel Southal Mission, is hereby licensed, under section 9, Act XV of 1872, to grant certificates of marriage between persons who are Native Christians.

The Revd. G. W. Panes is also appointed to be a Registrar of Births and Deaths under Act VI of 1886.

EDUCATION.—*The 21st January* 1890.—Baboo Dina Nath Sen, Officiating Inspector of Schools, Eastern Circle, is allowed leave for one month and fifteen days, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

MEDICAL.—*The 21st January* 1890.—Surgeon D. G. Crawford, Officiating Civil Surgeon, Midnapore, is allowed leave for fifteen days under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The following notifications are republished from the *Assam Gazette*:—

No. 425 *of* 1889.—*The 28th December* 1889.—Mr. H. LeMesurier, C.S., Assistant Commissioner, is transferred from Habiganj in the Sylhet district to the district of Cachar as a temporary arrangement.

No. 96*G.*—Mr. F. C. French, C.S., who has recently been appointed a member of the Bengal Civil Service, is posted as an Assistant Commissioner, third grade, to Tezpur.

No. 171*G.*—The following is published for information:—

FINANCE AND COMMERCE DEPARTMENT, CALCUTTA.

No. 5535, dated Calcutta, the 30th December 1889.

The undermentioned officer has been granted by Her Majesty's Secretary of State for India extension of leave as advised in list dated 6th December 1889—

Mr. H. Luttman-Johnson, Covenanted Judge and Commissioner, Assam, 5 weeks' furlough.

No. 61*J.*—*The 9th January* 1890.—The Chief Commissioner empowers Mr. W. B. Brown, C.S., Assistant Commissioner, to try summarily the offences mentioned in section 260 of the Criminal Procedure Code (Act X of 1882).

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

The 17th January, 1890.—Mr. A. C. Anderson is appointed to act as an Assistant Sub-Deputy Opium Agent in the Behar Opium Agency during the absence, on leave, of Mr. C. A. C. Gennoe, or until further orders.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 20th January, 1890.—In supersession of the declaration dated 1st February, 1889, published at page 96, Part I of the *Calcutta Gazette* of the 6th idem, the following revised declaration is now published for general information :—

DECLARATION.

The 20th January, 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for constructing an embankment over the Gangi Naddi for the purpose of keeping sufficient water in dry season for the convenience of opium assamies, in the villages of Majhowah and Sonadia, pergunnah Arrah, zillah Shahabad, it is hereby declared that for the above purpose a piece of land measuring, more or less, 2 cottahs and 5½ dhurs of local measurement, bounded on the north by the cultivated land of Dihu Rai; south by parti land of Heytnarain Sing and Kissori Sing Chowdries; east by the cultivated land of Dihu Rai and Palakdhari Sing; west by the cultivated land of Dihu Rai and parti land of Chowdries Kissori Sing and Hitnarain Sing, is required within the aforesaid villages of Majhowah and Sonadia.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 21st January, 1890.—The Lieutenant-Governor is pleased to sanction the transfer of the "D" Company of the Northern Bengal Volunteer Rifles to the Eastern Bengal State Railway Volunteer Rifle Corps, with effect from the 1st April, 1890, the Officers of the former to be graded with those of the latter according to the dates of their commissions.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 13th January 1890.—Baboo Jogendro Nath Sen, Sub-Deputy Collector, Gya, is appointed to be a Special Deputy Collector for employment on revaluation work under Act IX (B.C.) of 1880 in the district of Purneah.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 20th January, 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken at the public expense for a public purpose, viz., for the extension of the butts at the Volunteer Rifle Range at Ballygunge, in Dihi Punchannogram, district 24-Pergunnahs, it is hereby declared that for the above purpose two parcels of land measuring 8¼ bighas, more or less, of the standard measurement, and bounded as follows, are required in the aforesaid village:—

Plot No. 1—About 5¼ bigahs, is bounded on the north by the 1,000 yards range butt and by the holdings of Golam Akbar, Coylash Chunder De, and Kristohoree Chowdhury; east by the land occupied by the Eastern Bengal State Railway and by the holding of Aboril Hamed; south by the holding of Meher, Assan Mistry, and Ajahar and Dooloo Losker.

Plot No. 2—About 3 bighas, is bounded on the north by the 300 yards range butt, and by the holdings of Golam Akbar, Hamja Goldar and Sitabuddin; east by the holdings of Nusuruddin Mistry; south by the holdings of Nusuruddin Mistry and Sitabuddin; and west by the holdings of Esmail.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

P. NOLAN,
Secretary to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 158A.

The 17th January 1890.—The Lieutenant-Governor accepts the resignation tendered by Mr. C. S. Bremner of his appointment as an Honorary Magistrate of the Howrah Bench.

The Lieutenant-Governor accepts the resignation tendered by Mr. A. S. Crabbe of his appointment as Honorary Magistrate of the Baidyabatty Municipal Bench in the district of Hooghly.

The 18th January 1890.—Baboo Bhagavati Charan Mitra, M.A., B.L., is appointed to act as a Munsif in the district of Dinagepore, to be ordinarily stationed at Thakurgaon, during the absence, on leave, of Baboo Nilmadhub Mookerji, or until further orders.

Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Moulvie Mohamed Habibulla, Officiating Deputy Magistrate and Deputy Collector, Midnapore, to take down evidence in criminal cases in the English language.

The 20th January 1890.—Under the authority conferred on him by section 185 (*a*), sub-section (1) of the Code of Civil Procedure, Act XIV of 1882, the Lieutenant-Governor directs that evidence in cases in which an appeal lies shall be taken down by Baboo Paresh Nath Banerjee, Subordinate Judge and Small Cause Court Judge of Bhagulpore, with his own hand in the English language.

The 21st January 1890.—Baboo Basanta Kumar Ghosh, B.L., is appointed to act as a Munsif in the district of Dacca, to be ordinarily stationed at Kaligunge, during the absence, on leave, of Baboo Krishna Lal Chatterji, or until further orders.

Baboo Atul Chandra Ghose, B.L., is appointed to act as a Munsif in the district of Purneah, to be ordinarily stationed at Arrareah, during the absence, on leave, of Moulvi Hamid-ud-din, or until further orders.

Baboo Sasi Kumar Ghose, B.L., is appointed to act as a Munsif in the district of Jessore, to be ordinarily stationed at Satkhira, during the absence, on leave, of Baboo Chandi Charan Sen, or until further orders.

Baboo Tara Prasanna Ghose, Munsif of Maldah, Rajshahye, on leave, is appointed to be a Munsif in Chota Nagpore, to be ordinarily stationed at Roghunathpore.

Baboo Nanda Lall Koondoo, Munsif of Roghunathpore in Chotr Nagpore, is appointed to be a Munsif in the district of Rajshahye, to be ordinarily stationed at Maldah.

Baboo Gopal Chandra Bose is appointed to be a Munsif in Chota Nagpore, to be ordinarily stationed at Lohardugga, and to be substantive *pro tempore* Subordinate Judge in the district of Shahabad, but to continue to act as Additional Subordinate Judge of Bhagulpore, during the absence, on deputation, of Baboo Rakhal Chandra Bose, or until further orders.

Baboo Koylash Chandra Mookerjee is appointed to be Small Cause Court Judge and Subordinate Judge of Jessore, but to continue, on deputation, in his present appointment as Additional Subordinate Judge of the 24-Pergunnahs.

Baboo Kali Charan Ghoshal is appointed to be a Munsif in the district of Furreedpore, to be ordinarily stationed at Madaripore, and to be a substantive *pro tempore* Subordinate Judge in the district of the 24-Pergunnahs, but to act as Small Cause Court Judge and Subordinate Judge of Jessore, during the absence, on deputation, of Baboo Koylash Chandra Mookerjee, or until further orders, on being relieved of his present appointment as Officiating Subordinate Judge of Mymensingh.

Baboo Ananda Kumar Surbadhikari is appointed to be Subordinate Judge of Dinagepore, but to continue in his present appointment as Additional Subordinate Judge of Dacca.

Baboo Haro Govind Mookerjee is appointed to be a Munsif in the district of Dacca, to be ordinarily stationed at Kaligunge, and to be a substantive *pro tempore* Subordinate Judge in the district of Dacca, but to continue to act as Subordinate Judge of Dinagepore, during the absence, on deputation, of Baboo Ananda Kumar Surbadhikari, or until further orders.

Baboo Baroda Prosonno Shome is confirmed in his present appointment as Officiating Small Cause Court Judge of Koostea, Chooadanga, and Meherpore in Nuddea.

Baboo Saroda Prosad Chatterjee is confirmed in his present appointment as Subordinate Judge of Sarun.

Baboo Nil Madhub Banerjee, Subordinate Judge of Sarun, on leave, is appointed to be Subordinate Judge in Rungpore.

Baboo Debendro Lal Shome is appointed to be an Additional Munsif in the district of Hooghly, to be ordinarily stationed at Serampore, but to continue to act as Subordinate Judge of Rungpore, during the absence, on leave, of Baboo Nil Madhab Banerjee, or until further orders.

Baboo Promotho Nath Chatterjee, Munsif of Lohardugga in Chota Nagpore, on leave, is appointed to be a Munsif in the district of Shahabad, to be ordinarily stationed at Buxar.

Moulvie Mahomed Nasurul Huq, Officiating Munsif, Behar, Shahabad, is appointed to be a substantive *pro tempore* Munsif in Chota Nagpore, to be ordinarily stationed at Lohardugga.

Baboo Gobind Deb Mookerjee, Munsif of Madaripore, in Furreedpore, on leave, is appointed to be a Munsif in the district of Noakholly, to be ordinarily stationed at Sudharam.

Baboo Kamala Nath Das, Officiating Munsif of Madaripore, Furreedpore, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at Madaripore.

Baboo Moti Lal Singh, Munsif of Khoolna in Jessore, on leave, is appointed to be a Munsif in the district of Furreedpore, to be ordinarily stationed at Goalundo, and is vested with the powers of a Judge of a Court of Small Causes for the trial of suits cognizable by such a Court up to the value of Rs. 50 within the local limits of the Goalundo Munsifi.

Baboo Upendra Chandra Ghose is confirmed in his present appointment as Officiating Munsif of Khoolna, in Jessore.

Baboo Krishna Lall Chatterjee, Munsif of Kaligunge, in Dacca, on leave, is appointed to be a Munsif in the district of Burdwan, to be ordinarily stationed at the Sudder station of that district.

Baboo Suresh Chandra Banerjee, Officiating Munsif of Burdwan, is appointed to be a substantive *pro tempore* Munsif in Dacca, to be ordinarily stationed at Kaligunge.

Baboo Pulin Behary Bose, Officiating Munsif of Midnapore, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at the Sudder station of that district.

Baboo Nogendra Chandra Mitter, Officiating Munsif, Chandpore, Tipperah, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at Chandpore.

Baboo Saroda Prosad Sen, Officiating Munsif, Brahmunberiah, Tipperah, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at Brahmunberiah.

Baboo Bijoy Gopal Bose, Officiating Additional Munsif of Patiya and Anwara, in Chittagong, is appointed to be a substantive *pro tempore* Additional Munsif in the same district, to be ordinarily stationed at Patiya and Anwara.

Baboo Jogendra Nath Bose, Officiating Additional Munsif of Ampta, in Hooghly, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at Ampta.

Baboo Bidhu Bhusan Banerjee, Officiating Additional Munsif of Fatikcheri and Hathazari, in Chittagong, is appointed to be a substantive *pro tempore* Munsif in the same district, to be ordinarily stationed at Fatikcheri and Hathazari.

Baboo Denonath Chuckerbutty, Deputy Magistrate and Deputy Collector, Sarun, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

Baboo Surendro Nath Ghose, Temporary Deputy Magistrate and Deputy Collector, Midnapore, is vested with the powers of a Magistrate of the first class.

GRANT OF LEAVE TO MUNSIFS.—*The 13th January* 1890.—Baboo Lal Singh, Additional Munsif of Sewan, in the district of Sarun, is allowed leave for two months, under article 369 of the Civil Service Regulations, with effect from the date on which he was relieved.

Baboo Krishna Lall Chatterjee, Munsif of Kaligunge, in the district of Dacca, is allowed leave for one month and 15 days, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he was relieved.

The 14th January 1890.—Baboo Nil Madhub Mookerjee, Munsif of Thakurgaon, in the district of Dinagepore, is allowed leave for two months, under article 369 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Baboo Chandi Charan Sen, Munsif of Satkhira, in the district of Jessore, is allowed leave for forty-six days, viz., ten days under article 309 of the Civil Service Regulations, and the remaining period under article 306(*b*) of the same Regulations, with effect from the 18th January 1890, or from the date on which he may be relieved.

Moulvi Hamiduddin, Munsif of Arrareah, in the district of Purneah, is allowed leave for two months, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

The 15th January 1890.—Baboo Devendra Nath Roy, Munsif of Doobrajpore, in the district of Beerbhoom, is allowed leave for fifteen days, under article 306(*b*) of the Civil Service Regulations, in extension of the leave granted to him on the 26th September 1889.

The 17th January 1890.—Baboo Satya Charan Ganguly, Munsif of Gaibanda, in the district of Rungpore, is allowed leave for fifteen days, under article 306(*b*) of the Civil Service Regulations, with effect from the 21st January 1890, or from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 15th January 1890.—It is hereby notified that, under the power vested in him by section 3 of Regulation III of 1872, as amended by Regulation III of 1886, the Lieutenant-Governor directs that Act III (B.C.) of 1879 shall have force in the district of the Sonthal Pergunnahs, with effect from the 1st February 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th January 1890.—Under section 2 of Act II (B.C.) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming houses), the Lieutenant-Governor authorizes the extension from the 1st February 1890 of the provisions of sections 11 to 14 of the said Act to the town of Rampore Hât (including Brahamanigram, Kalisaura, and Khalasiparah), in the district of Beerbhoom.

2. For the purposes of the above Act, the boundaries of the place shall be as follows:—

North—East Indian Railway Rifle Butts.
South—Sanghatta khal.
East—Khair tank.
West—Village Suifalla.

JOHN EDGAR,
Chief Secy. to the Govt of Bengal.

DECLARATION.

The 18th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for construction of an outpost at Ooturmanoos in Gya town, in the village of Gya, pergunnah Gya, zillah Gya, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 cottah and 10 chittacks of standard measurement, bounded on the North by the road to Sahebgunge; South by the road to Gya; East by the road to the Phulgoo river; and West by a temple of Mahodeo, is required within the aforesaid village of Gya.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

DECLARATION.

The 20th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the erection of a police outpost in the village of Bhoetal, in the district of Moorshedabad, it is hereby declared that for the above purpose a piece of land measuring, more or less, 2 bighas of standard measurement, bounded on the North by the road between Bhoetal and Kadoah villages, on the South partly by the "Barlee Pakoor," the Kuddumsah Factory Kharida jote, a piece of zemindari purteet land and Parama Nauda's chakran lands, on the East by the Juntra Tank, and on the West by the "Barlee Pakoor," is required within the aforesaid village of Bhoetal.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

DECLARATION.

The 21st January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the extension of the Cuttack Jail garden, in the village of Uriyabazar, pergunnah Bakrabad, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 acre and 37 poles of standard measurement, bounded on the north by the lane leading to Latmandir, on the south and east by the compound wall of the jail, and on the west by the garden belonging to Ram Gobind Jagadeb, is required within the aforesaid village of Uriyabazar.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 16th January 1890.

No. 11.—Rai Krishna Chundra Bandopadhya, Sahib, Assistant Engineer, first grade, was on privilege leave from the 19th to the 26th of November 1889, both days inclusive.

The 20th January 1890.

No. 12.—The following Notification by the Government of India, Public Works Department, is republished for information:—

No. 17, dated the 11th January 1890.—Mr. R. B. Buckley, Executive Engineer, first grade, Bengal, is appointed to officiate as a Superintending Engineer, with effect from the 19th December 1889. While so officiating, Mr. Buckley will hold temporary rank in the third class.

No. 13.—The following extracts from Notifications by the Government of India, Public Works Department, are republished for information :—

No. 20, *dated the* 13*th January* 1890.—The Governor-General in Council is pleased to order the following promotions to and in the classes of Chief and Superintending Engineers, with effect from the dates specified :—

Name.	From	To	Nature of promotion.	With effect from
Hughes, A. J. ...	Superintending Engineer, class II, temporary rank.	Superintending Engineer, class II.	*Sub. pro tem.* ...	2nd November 1889.
Wickes, T. H. ...	Superintending Engineer, class I, *sub. pro tem.*	Superintending Engineer, class I.	Permanent ..	13th November 1889.
Odling, C. W. ...	Superintending Engineer, class III, *sub. pro tem.*	Superintending Engineer, class III.	Permanent ...	13th November 1889.
Joll, H. ...	Superintending Engineer, class III, temporary rank.	Superintending Engineer, class III.	*Sub. pro tem.* ...	13th November 1889.

No. 21, *dated the* 14*th January* 1890.—The Governor-General in Council is pleased to order the following promotions and reversions of Executive and Assistant Engineers attached to State Railways, with effect from the dates specified :—

Names.	From	To	Nature of promotion.	With effect from
Pope, F. J. ...	Executive Engineer, 4th grade, *sub. pro tem.*	Executive Engineer, 4th grade.	Temporary ...	23rd October 1889.
Elliot, E. C. ..	Assistant Engineer, 1st grade.	Executive Engineer, 4th grade.	Temporary ...	18th November 1889

RAILWAY.

The 21*st January* 1890.

No. 16.—*Declaration* —Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of Damuda Coal Company's siding No. 11 in connection with the Colliery branch line of the Bengal Nagpur Railway in the villages of Junut, Namahbore, Jamahdeah, and Bharuthchuck, pergunnah Shergurh, district Burdwan, it is hereby declared that for the above purpose a piece of land measuring, more or less, 7 acres 3 roods and 36·72 poles (corresponding to 24 bighas 2 cottahs and 12 chittacks) bounded by a nick on the ground, is required within the aforesaid villages of Junut, Namahbore, Jamahdeah, and Bharuthchuck.

The mines of coal, ironstone, slate, or other minerals lying under the land, except only such parts of the mines or minerals as it may be necessary to dig or carry away, or use in the construction of the work for the purpose of which the land is being acquired, are not needed.

This declaration is made, under the provisions of section 6 of Act X of 1870, and section 3, clause I of Act XVIII of 1885, to all whom it may concern.

CIVIL BUILDINGS.

The 21*st January* 1890.

No. 17.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the extension of the compounds belonging to the Rajshahye College, the Collegiate School, and the Madrassa, in the village of Dorgapara, pergunnah Garerhat, zillah Rajshahye, it is hereby declared that for the above purpose a piece of land measuring, more or less, 10 bighas of standard measurement bounded on the—

North— By the Rajshahye College, the Collegiate School, and the Madrassa compound ;

West— By (*a*) the houses and premises of Giri Garowan and Deno Nath Gandaki, which are situate on lands which belong to Shib Kinker Mitra as jote; (*b*) the houses and premises belonging to Madhu Moti Gupta ; (*c*) land belonging to Niroopama Gupta ; and (*d*) the house and premises belonging to Mohim Chandra Paddar;

South— By Mukdam's tank;

East—By (*a*) piece of land belonging to the Rajshahye College, the Collegiate School, and the Madrassa; (*b*) the Beauleah dispensary compound; (*c*) the premises and land belonging to Mahu Khansama;

is required within the aforesaid village of Dorgapara.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

E J. MARTIN,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 20th January 1890.

No 14.—Mr. H. F. B. Frost, Executive Engineer, Eastern Sone Division, is granted furlough for eleven months, with effect from the 1st March 1890, or such subsequent date as he may avail himself of it.

No. 15.—Mr. A. S. Thomson is appointed to be Executive Engineer of the Eastern Sone Division, with effect from the date on which Mr. Frost proceeds on furlough.

J. M. MCNEILE, *Col*, R E.,
Joint-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

NOTIFICATION No. 9Mne.

The 15th January 1890.—In continuation of the Notification of this Government, No 211Mne., dated the 31st December 1889, published at Part I, page 10 of the *Calcutta Gazette* of the 1st January 1890, the following telegram from Her Majesty's Ambassador at Constantinople, regarding the suppression of all quarantine, except on arrivals from Persia, is published for general information.

J. M. MCNEILE, *Col.*, R. E.,
Joint-Secy. to the Govt. of Bengal.

Telegram, dated 11th January 1890.

From—Pera, From—Her Majesty's Ambassador at Constantinople.	To—Calcutta, To—Governor-General.

ALL quarantine suppressed, except on arrivals from Persia.

NOTIFICATION No. 10Mne.

The 20th January 1890.—In exercise of the powers conferred on him by section 36, sub-section (1) of Act X of 1889 (The Indian Ports Act), the Lieutenant-Governor is pleased to appoint the Collector of Pooree to receive the dues, fees or other charges authorized to be taken by or under the Act at the port of Pooree, and, subject to the control of the Local Government, to expend the receipts on any of the objects authorized by the Act.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal.

NOTIFICATION No. 11Mne.

The 20th January 1890.—In exercise of the powers conferred on him by section 36, sub-section (1) of Act X of 1889 (The Indian Ports Act), the Lieutenant-Governor is pleased to appoint the Collector of Cuttack to receive the dues, fees or other charges authorized to be taken by or under the Act at the port of False Point, and, subject to the control of the Local Government, to expend the receipts on any of the objects authorized by the Act.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal.

[Second Publication.]

NOTIFICATION No. 3Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 3).

JAPAN.

YEZO—SOUTH-WEST COAST.

Non-existence of Waywoda rock.

THE British Admiralty has given notice (No. 422 of 1889) of the non-existence of Waywoda (Voevoda) rock in the sea of Japan.

This rock was originally reported by the Russian corvette *Voevoda*, when proceeding from Hakodate to Peter the Great bay. It was seen at a distance of 3 miles from the ship

at 7h. P.M. on 28th June 1859, during thick weather, and estimated to be about 12 feet above water; the position assigned by dead reckoning, being lat. 42° 16′ N., long. 137° 18′ E.

The rock was searched for on two occasions by French vessels of war without success prior to 1886. In September 1886, eight of Her Majesty's ships passed near the assigned position of the rock, in such a manner that an area of 40 miles in latitude and 62 miles in longitude was examined, and no sign of the rock was observed.

In June 1888, an American whaling barque reported having seen two rocks from 8 to 12 feet high, about 500 yards apart, in lat. 42° 30′ N., long. 137° 5′ E., or about 15 miles north-westward of the *Voevoda's* reported position.

Consequent on this latter report a further special search has been made by five of Her Majesty's ships on the China station throughout 7th September 1889. During this search the position of the rocks reported by the American whaling barque, as well as that of the Waywoda rock, was passed over without seeing any signs of a rock above water, or obtaining any soundings indicative of shallow ground.

After a careful review of the above circumstances, it is considered that the objects seen by both the *Voevoda* and the American whaling barque were floating, and therefore the rock has been removed from the Admiralty Charts.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[Second Publication.]

NOTIFICATION No. 4Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 4).

JAPAN.

KIUSIU—NORTH-WEST COAST.

Sunken rocks in Iki Channel, and on south coast Iki sima.

THE British Admiralty has given notice (No. 434 of 1889) of the existence of the undermentioned sunken rocks lying in Iki channel, and on the south coast of Iki sima:—

1. A rock, with a depth of 1¾ fathoms, lies near the fairway in Iki channel, with Yebosi sima light-house bearing S. 75° E., and the eastern extreme of Na sima North.
   Position, lat. 33° 42′ 35″ N., long. 129° 52′ 20″ E.
2. A rock, with a depth of 2¼ fathoms, lies in Iki channel, with the north extreme of Na sima, in line with the Watch-house on Iki sima, bearing N. 87° W., and Akasi saki, the north-east extreme of Iki sima, N. 44° W.
   Position, lat. 33° 44″ 40′ N., long. 129° 54′ 10″ E.
3. A rock, with a depth of 1¾ fathoms, lies off the south coast of Iki sima, with Ko saki bearing S. 73° W., distant 4¼ cables.
   Position, lat. 33° 42′ 25″ N., long. 129° 43′ 30″ E.
4. A rock (*Tsurizone rock*), with a depth of 1¾ fathoms, lies 4¼ cables southward of Hira sima, with Ko saki bearing N. 86° E., and western extreme of Naga sima N. 7° W.
   Position, lat. 33° 41′ 35″ N., long. 129° 37′ 50″ E.
5. A rock (*Sorazone rock*), with a depth of 3¼ fathoms, and 5 cables in extent in a north and south direction, lies nearly in the fairway of the southern entrance to Go no Ura, 6 cables distant from Takuye sima, and with the north-west extreme of that islet in line with the north extreme of Hira sima.
   Position, lat. 33° 43′ 5″ N., long. 129° 39′ 40″ E.
6. A rock (*Ozone rock*), awash at low water spring tides, is an extension of the shoal shown on Admiralty Chart No. 127, on the eastern side of entrance to Go no Ura; it lies 3¼ cables from the coast of Iki sima, with the south extreme of Haru sima bearing S. 86° W., and north-east extreme of Oō sima N. 45° W.

7. The rock (*Hirase rock*) in the northern part of Go no Ura, and shown on Admiralty Charts as "Covers," lies a little westward of the position given, with Takuye sima bearing S. 27° W., distant $1\frac{6}{10}$ miles.

CAUTION.—There are many rocks and shoals near the coasts in this locality as yet not charted. Careful navigation is therefore needed.

The depths given are at low water spring tides.

(*The bearings are Magnetic, Variation 4° Westerly in* 1889).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[Second Publication.]

NOTIFICATION No. 5Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 5).

TASMANIA.

BASS AND BANKS STRAITS.

Intended alteration in colour of light-houses.

THE British Admiralty has given notice (No. 439 of 1889) that on 1st January 1890, or as soon after as may be, the light-houses on the coasts of Tasmania, together with those on King island and Kent group (Bass strait) and on Goose and Swan islands (Banks strait), will be painted entirely white.

At present the lower parts of the light-houses are painted white, and the upper parts red.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Second Publication.]

NOTIFICATION No. 6Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMhNT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 6).

ARABIAN SEA.

NINE DEGREES CHANNEL.

Unsuccessful search for reef reported north-east of Minikoi Island.

THE following Notice to Mariners (No. 443 of 1889), issued by the British Admiralty, is republished with reference to Nos. 80 and 85, dated, respectively, the 23rd August and 6th September last, issued by this office :—

In consequence of a reef having been stated to exist in the Nine Degrees channel, about 50 miles north-east of Minikoi island, in lat. 8° 48′ N., long 73° 40′ E., by the Master of the S.S. *Noord Braband*, August 1889, who reported it as being 3 miles in length in a south-east and north-west direction, an examination of the locality has been made by Commander R. F. Hoskyn, R.N., in charge of the India Marine Survey, with the following result :—

The examination, carried out in the I.G.S.S. *Investigator*, and extending over three days, from 2nd to 4th November 1889, embraced the reported position of the reef between lat. 8° 35′ and 9° 5′ N., and long. 73° 15′ to 74° 0′ E. The least depth found on the suspected spot was 1,179 fathoms, gray ooze, and no indication was afforded by the soundings of the existence of shallow water. On one occasion, however, some patches of what appeared to be discoloured water were observed; but they were all examined and proved to be merely the reflection of clouds in smooth streaks of water.

Throughout the time the weather was uniformly fine, and favourable for observations, and the positions of the soundings were satisfactorily determined.

Considering the detailed nature of this examination by Commander Hoskyn, and the fact of the locality being near the track of shipping using the Nine Degrees channel, the existence of this extensive danger is considered disproved.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Second Publication.]
NOTIFICATION No. 7Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 7).

AUSTRALIA—EAST COAST.

PIONEER RIVER APPROACH.

Sunken rock north-eastward of Round Top island.

THE British Admiralty has given notice (No. 444 of 1889) of the existence of a sunken rock lying about 6 cables north-eastward of Round Top island, Pioneer river approach.

This rock (*Taroba rock*), with about 19 feet over it at low water, lies with the following bearings:—

Round Top island summit ...	...	...	S.W. ½ S.
Flat Top island light-house ...	...	...	West.

Position; lat 21° 9′ 45″ S., long. 149° 17′ 50″ E.

(*The bearings are Magnetic Variation 7° Easterly in* 1889.)

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Second Publication.]
NOTIFICATION No. 8Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 8).

AUSTRALIA—SOUTH COAST.

PORT PHILLIP ENTRANCE.

Submarine telegraph cable between Swan island and Observatory Point.

THE British Admiralty has given notice (No. 446 of 1889) that a submarine telegraph cable has been laid between Swan island and Observatory Point within the entrance to port Phillip.

The cable is laid from Swan beacon to Pope's Eye fort (situated near the white pile beacon on the south-west part of that shoal) and thence to Observatory Point.

CAUTION.—Mariners are warned that anchorage within 4 cables on either side of this cable is prohibited.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Third Publication.]
NOTIFICATION No. 1Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I HARRISON, *Lieut-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 1).

BAY OF BENGAL.

BURMA COAST.

The floating light-vessel "Colombo" replaced below Elephant Point.

WITH reference to Notice to Mariners, No. 115, dated the 28th November last, issued by this Office, the Officiating Port Officer of Rangoon has given notice that the floating light-vessel *Colombo* has been replaced off the Spit below Elephant Point, and the schooner *Pharos* removed.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 4th January* 1890.

[Third Publication]

NOTIFICATION No. 2Mne.

The 6th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 2).

BAY OF BENGAL.

ORISSA COAST.

Inner bar-buoy adrift.

A TELEGRAPHIC communication has been received from the Collector of Customs Balasore, that the *inner bar-buoy* has drifted out of position.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th January* 1890.

JAIL DEPARTMENT.

ERRATUM.—*For* "28th September 1889" *read* "20th September 1889" in the Jail Department notification No. 9494, dated the 10th December 1889, printed in page 1046 of the *Calcutta Gazette* dated the 18th December 1889 (Part I).

A. S. LETHBRIDGE,
Inspector-General of Jails, Bengal.

CALCUTTA, *the 14th January* 1890.

Revised Notification No. 25, dated 6th January 1890.

No. 688.—*The 18th January* 1890.—Mr. C. H. C. Sevenoaks made over charge of the Midnapore Jail to Mr. H. M. Owen on the afternoon of the 20th December 1889.

A. D. LARYMORE,
Offg. Inspector-General of Jails, Bengal.

No 712.—*The 20th January* 1890.—Mr. A. D. Larymore made over charge of the Alipore Jail to Mr. M. S. Emerson on the afernoon of the 16th January 1890.

A. D. LARYMORE,
Offg. Inspector-General of Jails, Bengal.

ECCLESIASTICAL.

THE REVEREND THEODORE EDWARD FORTESCUE COLE, B.L., of Downing College, Cambridge, Junior Chaplain, has been appointed by the Lord Bishop of Calcutta a Surrogate in the Diocese for granting episcopal licenses of marriage.

C. H. REILY,
Registrar of the Diocese.

DIOCESAN REGISTRY OFFICE, *the 16th January*, 1890.

HIGH COURT NOTICES.

BABOO HARA GOBIND MOOKERJEE, Additional Subordinate Judge of Rungpore, is appointed to be a District Delegate, under section 235A of Act X of 1865, and section 52 of Act V of 1881, within the local limits of the district of Julpigooree.

By order of the High Court,

C. M. W. BRETT, *Registrar.*

HIGH COURT, *the 21st January* 1890.

Dates of Criminal Sessions for the year 1890.

No. of Sessions.	Day of the week.	Date.
First Sessions	Monday	February, 17th.
Second ,, ...	Ditto	April, 28th.
Third ,, ...	Ditto	July, 14th.
Fourth ,, ...	Ditto	September, 1st.
Fifth ,, ...	Ditto	December, 8th.

By order,

J. G. APCAR, *Clerk of the Crown.*

HIGH COURT, CROWN OFFICE, *the 18th January* 1890.

Sheriff's Office, the 22nd January 1890.

NOTICE is hereby given that the First Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the seventeenth day of February next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ২২শে জানুয়ারি।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার কোর্ট উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তি জন্য আগামী সন ১৮৯০ সালের ১৭ই ফেব্রুয়ারি সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিকাতার হাই কোর্টের আপন আদালত ঘরে সন ১৮৯০ সালের প্রথম ক্রমিনেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন কয়েদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচঃ বিঃ এইচঃ টারনার, শরিফ।

SMALL CAUSE COURT NOTICE.

Notice.

UNDER section 7, Act IX of 1887, notice is hereby given that the Small Cause Court Judge of Dacca and Munshigunge will hold his sittings at Munshigunge from the 19th to the 26th February next, and the rest of the days of the month at Dacca, Sundays and holidays excepted.

K. C. CHATTERJI, *First Sub-Judge, for District Judge.*

JUDGE'S OFFICE, DACCA, *the 18th January* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 8th January 1890.—Babu Braja Syam Mazumdar, Departmental Sub-Inspector of Schools, 24-Pergunnahs (class VI), is allowed leave of absence for two months, under Article 294 of the Civil Service Regulations, with effect from the 11th November 1889.

Babu Rajani Kanta Sanyal, B A., is appointed to act as Departmental Sub-Inspector of Schools, 24-Pergunnahs, and in class VI *vice*, Babu Braja Syam Mazumdar, on leave.

The 21st January 1890.—Babu Tripura Charan Banerjea, B.A., Third Master of the Bhagulpore Zillah School, class VI now under the Court of Wards is allowed leave of absence for four weeks, under Article 372 of the Civil Service Regulations, with effect from the 12th February 1890, the date on which his services will be transferred to this Department.

A. CROFT, *Director of Public Instruction.*

List of Holidays and Vacations for Government Colleges in Bengal for the year 1890.

MONTH.	Vacations and Holidays.
January ...	1st—New Year's day. 25th—Sripanchami.
February ...	.....
March ...	6th—Dolejatra.
April ...	4th and 5th Easter holidays. 12th—Chait Sankranti.
May ...	28th to 30th ... } Summer vacation.
June ...	1st to 31st ... } Summer vacation.
July ...	1st to 22nd ... } Summer vacation. 28th or 29th—Eed-uz-zoha.
August ...	7th—Janmastami. 25th and 26th, or 26th and 27th—Mohurrum.
September ...	.....
October ...	10th to 31st ... } Durga Puja vacation.
November ...	1st ... } Durga Puja vacation. 11th and 12th—Kali Puja 20th and 21st—Jagadhatri Puja.
December ...	24th to 31st—Christmas holidays.

Collegiate schools will remain open up to the 10th May, and will reopen on the 23rd June.

A. CROFT,
Director of Public Instruction.

Examination of Candidates for Pleadership and Mookhtarship in Mofussil Courts subordinate to the High Court.

THE next examination of candidates for Pleadership will be held in the Senate House of the Calcutta University on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

The next examination of candidates for Mookhtarship will be held at Calcutta, Patna, Dacca, Cuttack, Gauhati, and Sylhet on *Wednesday and Thursday, the 19th and 20th of February* 1890, instead of on Monday and Tuesday, the 24th and 25th of February as originally notified.

Two papers will be set each day for the Pleadership Examination at 10 A.M. and 2 P.M., respectively, and the two papers for the Mookhtarship candidates will be set on the 19th February at the same hours.

Under no circumstances will any candidate be admitted to the examination-room after these hours.

The candidates will be required to produce at the examination extracts from the Register, which will be furnished to them by the District Judge through whom their applications have been sent to the Board of Examiners.

No candidate will be allowed to enter the examination-room with any memoranda or loose papers of any description (with the exception of the extracts abovementioned).

All writing materials will be provided, with the exception of pens, which the candidates must bring with them.

HENRY T. HYDE,
Secy. to the Board of Exmrs. for Pleadership and Mookhtarship.

NOTIFICATIONS OF THE BOARD OF REVENUE

No. 1594B.

NOTICE is hereby given that the Second Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Monday, the 3rd February 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th February 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th February 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th February 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the year 1890 about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES			Manufactured at the Patna Factory, about chests	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 3rd March	1890	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,	...	2.250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2 500	4,750
On or about Monday, 2nd June	,,	...	2,250	2 500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	..	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2 500	4,750
On or about Monday, 3rd November	,,	...	2.250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4 750
TOTAL		...	22,500	25,000	47,500

By order of the Board of Revenue, L. P,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 30th December* 1889.

Notification under Section 30 *of Act XII of* 1882 (*The Indian Salt Act*).

IN exercise of the powers conferred by the second paragraph of Notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67-72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari, and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorises the officer named below to exercise the powers of a Salt Revenue Officer:—

Locality.	Name.	Rank.	Powers to be conferred on each.	REMARKS.
Basudebpore Circle	Mr. C. M. Sherman	Inspector, 4th grade.	Salt Revenue Officer.	

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), *Madras, the 8th January* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 30th ultimo in Ward No. I of the Joynagore Municipality, Baboo Mathura Mohon Chakravarti has been duly elected a Commissioner for that Ward in the place of Baboo Hem Nath Datta, deceased.

A. BHATTACHARJEE, *Personal Assistant, for Commissioner on tour.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 15th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held on the 16th ultimo, Moulvi Nasir Hossain Khan has been elected as a Municipal Commissioner in the Peerbohur Ward of the Patna Municipality in the place of Baboo Gurupershad Sen, who has ceased to be a Commissioner under section 20 of the Municipal Act.

JOHN BOXWELL, *Offg. Commissioner.*

PATNA COMMR.'S OFFICE, BANKIPORE, *the 10th January* 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 22, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India, in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS—ESTABLISHMENTS.

Calcutta, the 16th January 1890.

No 22.—Mr. N. S. Alexander is permitted to resign Her Majesty's Bengal Civil Service, with effect from the 15th March 1890, or the subsequent date on which he may sail from India.

JUDICIAL.

The 15th January 1890.

No. 49.—The Hon'ble Amir Ali, C.I.E., Barrister-at-Law, took his seat as an Officiating Judge of the High Court of Judicature at Fort William in Bengal on the forenoon of the 2nd January 1890.

EDUCATION.

The 17th January 1890.

No. 25.—The Governor-General in Council is pleased to appoint the following gentlemen to be Fellows of the University of Calcutta :—

The Hon'ble J. F. Norris, Q.C.
The Ven'ble Archdeacon Michell.
The Reverend H. Whitehead, M.A.
Maharajah Sir Narendra Krishna, K.C.I.E.
Maulavi Ashraf-ud-din Ahmad.
Baboo Shyama Charan Ganguli, B.A.
„ Bepin Bihari Gupta, M.A.

A. P. MACDONNELL.
Secretary to the Govt. of India.

The following orders, issued by the Government of India, in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 17th January 1890.

FURLOUGH AND LEAVE.

No. 48.—Surgeon-Major R. G. Mathew has been granted by the Secretary of State for India furlough out of India (m.c.) for six months, in commutation of privilege leave, under Rules IX and XV of the Regulations of 1868.

VOLUNTEER CORPS.

APPOINTMENTS.

No. 65.—*Northern Bengal Volunteer Rifle Corps*—

Captain A. E. Couper, East Surrey Regiment, Officiating Adjutant, is confirmed in that appointment, with effect from the 11th November 1889.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, JANUARY 22, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 14th January 1890.—It is hereby notified that, under section 19, Act III (B.C) of 1885, the Lieutenant-Governor is pleased to appoint Syed Mohamed Hossein to be a member of the Sudder Local Board, in the district of Backergunge, *vice* Syed Abdur Raub.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 16th January 1890.—It is hereby notified for general information that the Lieutenant-Governor intends, in the exercise of the power vested in the Local Government by section 86 (*b*) of Act III (B.C.) of 1884, and on the recommendation of the Commissioners of the Lohardugga Municipality made at a meeting, to sanction the levy by the Commissioners, under section 143 of the Act, of a fee on the registration under section 142 of all carts which are kept or habitually used within the Municipality, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th January 1890.—Under Rules 11 and 10 of the Rules prescribed by the Government of India under the Local Authorities Loan Act, 1879, in the notifications of the Department of Finance and Commerce, Nos. 15 and 16, respectively, dated the 1st January 1889, the Lieutenant-Governor has been pleased to authorize the Inspectors of Local Works in their respective jurisdictions to inspect all works undertaken by District Boards and Municipalities by means of loans granted to or raised by them under these rules, and the accounts connected therewith.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Bepin Behari Banerjee to be a Commissioner of the Jhaldah Municipality, in the district of Manbhoom, *vice* Baboo Khetra Nath Ghosh, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th January 1890.—It is hereby notified that, under section 27, Act III (B.C) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Khetra Mohun Mitter, Deputy Magistrate, to be a Commissioner of the Pooree Municipality, *vice* Baboo Rajgopal Roy, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th January 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Howrah Local Board, in the district of Howrah, under section 25 of Act III (B.C.) of 1885, of Baboo Shib Chundra Mullick to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th January 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Uluberiah Local Board, in the district of Howrah, under section 25 of Act III (B.C.) of 1885, of Baboo Tincowri Ghose to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 20th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Chandra Kanta Guha to be a Commissioner of the Sherepore Municipality, in the district of Mymensingh, *vice* Baboo Gopal Govindo Gupta, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 20th January 1890.—In the notification, dated the 29th November 1889, published at page 266, Part IB of the *Calcutta Gazette* of the 4th December 1889, containing the names of the members of Local Boards in the district of Patna, *for* "Munshi Lekha Ram," an elected member of the Behar Local Board, *read* "Munshi Lekh Narain," and *for* "Shah Ali Hussain," an appointed member of the Behar Local Board, *read* "Shah Ata Hussain."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 20th January 1890.—Whereas a notification, dated the 14th October 1889, was published at page 223, Part IB of the *Calcutta Gazette* of the 16th idem, declaring the intention of the Lieutenant-Governor to extend the provisions of Act V (B.C.) of 1880 to the Netrokona Municipality, in the district of Mymensingh, and whereas no objections were raised to the proposal within six weeks of the date of publication of the notification within the Municipality, the Lieutenant-Governor is pleased, in exercise of the power vested in him by section 1 of Act V (B.C.) of 1880, to extend the provisions of the said Act to the Netrokona Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st January 1890.—Whereas a notification dated the 18th September 1889 announcing the intention of the Lieutenant-Governor to extend the provisions of the Bengal Vaccination Act V (B.C.) of 1880 to the Perozepore Municipality in the district of Backergunge, was published at page 197, Part IB of the *Calcutta Gazette* of the 25th idem, and whereas no sufficient objection has been raised to the proposal within six weeks from the date of the publication of the notification within the Municipality, it is hereby notified for general information that, in exercise of the power conferred on him by section 1 of the said Act, the Lieutenant-Governor extends the provisions of the Act to the Perozepore Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st January 1889.—In exercise of the power conferred on the Local Government by section 414 of Act II (B.C.) of 1888, the Lieutenant-Governor has been pleased to confirm the following bye-laws which have been made by the Commissioners of Calcutta under section 412, clauses (*a*), (*b*), (*c*), and (*d*), and published in the manner prescribed in section 415 of the Act.

* (*a*) All matters and things connected with the supply and use of water—

Washing animals in the streets.

1. No person shall wash or cleanse, or cause to be washed or cleansed, in any public street, lane, or thoroughfare, or in upon, or by the side of, any tank, reservoir, bathing place, aqueduct, well, cistern, conduit, or other water-works belonging to the Commissioners and provided by them for the domestic use of the inhabitants of the town, any vehicle, carriage, or cart, dog, horse, or other animal.

Washing apparel, &c.

2. No person shall wash, cleanse, or cause to be washed or cleansed, in any public street, lane, or thoroughfare, or in, upon, or by the side of, any tank, reservoir, bathing place, aqueduct, well, cistern, conduit, stand-pipe, or other water-works belonging to the Commissioners (and provided by them for the domestic use of the inhabitants of the town) any wool, cloth, or wearing apparel, or any utensil for cooking or other purposes, or leather, or skins of any animal, or any foul or offensive thing, unless specially set apart by the Commissioners for that purpose.

Stop-cocks, taps, and ferrules to be approved by Commissioners.

3. All stop-cocks, taps, and ferrules for new connections shall be of a pattern approved of by the Engineer to the Corporation.

Occupier to effect repairs in case of leakage.

4. Should any leakage occur in a communication pipe, cistern, tap, or other water fittings, the occupier, or, in case of a vacant house, the owner shall within 48 hours engage an authorized plumber, who shall be bound to effect the repairs within a further period of 12 hours.

Water for ornamental or business purposes to be taken through meter.

5. Water for ornamental or business purposes must, unless otherwise agreed upon under section 154, be taken through a meter, the working of which is to be approved of by the Engineer to the Corporation. The meter shall be provided, and any repairs which may be necessary from time to time shall be carried out at the cost of the person taking the supply. The meter shall be of a pattern, and be fixed in a position to be approved of by the Commissioners.

Usual deduction to be allowed.

6. In calculating the sum payable for water under Rule 5, the allowance prescribed by section 155 shall be deducted from the amount consumed, and only the surplus consumption charged for at the rate of 2,000 gallons per rupee.

Cistern not to be put up or its size increased without sanction of the Commissioners.

7. No person shall put up any cistern at any latrine or water closet, or otherwise, or increase the size of such cistern without the previous sanction of the Commissioners.

Prohibition for bathing or using water of a tank for drinking purposes, &c.

8. Whenever a public notice has been issued under section 323, Act II (B. C.) of 1888, prohibiting the removal or use of the water of any particular tank for the purpose of drinking, no person shall, so long as such public notice is in force, bathe in such tank or take away the water thereof whether in a gumlah, mussuck, kulsee, water-cart or any other vessel without a written authority from the Commissioners.

(*b*) The time and place of bathing for persons of each sex in places provided or set apart for bathing purposes—

Place of bathing set apart for persons of either sex.

1. No person of one sex shall bathe in or otherwise use any bathing place belonging to and set apart by the Commissioners for the use of persons of the other sex.

Diseased persons not to bathe in tanks.

2. No person suffering from leprosy or any contagious disease shall bathe in or otherwise use any bathing place belonging to the Commissioners.

Committing nuisance not allowed in any bathing place.

3. No person shall commit a nuisance by obeying a call of nature in any bathing place belonging to the Commissioners.

(*c*) The deposit, whether in the public streets or otherwise, of rubbish and offensive matter, the removing and carrying away of the same, and charging the person responsible for such deposit with the expenses of removing it—

Dust, dirt, ashes, kitchen or stable refuse not to be deposited in streets except as the Commissioners shall direct.

1. Where the provisions of section 298, Act II (B.C.) of 1888, have been complied with by the Commissioners, no person, the entrance to whose premises is within 50 yards of a dust-box, shall deposit, or cause to be deposited, any offensive matter or rubbish in any public street except in the dust-bin or box provided by the Commissioners. If such box or bin is full, the offensive matter or rubbish may be deposited by the side of it.

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* The bye-laws are grouped for convenience under the heads of the several sub-sections of section 412, but it is not thereby meant that this sub-section is the sole authority for each bye-law. A bye-law is passed sometimes partly under the authority of one sub-section, partly of another, partly of the general provision at the end of the section. If any question therefore is raised as to whether any bye-law is authorised by the sub-section under which it is placed, it must be understood that its validity must be tried under all the provisions of section 412 before it is declared *ultra vires*.

Dust, dirt, ashes, &c., not to be deposited where the provisions of section 298 have not been complied with except between such hours as may be determined by the Commissioners.

2. Where the provisions of section 298 of Act II (B. C.) of 1888 have not been complied with, no person shall deposit, or allow to be deposited, in any public street any offensive matter or rubbish except between such hours as may from time to time be determined by the Commissioners in meeting, and duly notified to the public.

Tank, hole, or excavation not to be dug in Calcutta without permission.

3. No person shall dig, or allow to be dug, in Calcutta any cesspool, tank, well or pit, or any excavation for the purpose of taking earth therefrom or for storing offensive matter or rubbish without the special permission of the Commissioners.

Refuse resulting from any business or trade to be removed under half-yearly permits.

4. Every person who shall exercise in Calcutta any of the professions, trades, or callings prescribed in the following schedule (Rule 7) shall take out a half-yearly permit and pay to the Commissioners such sum as may be due by him according to the rates mentioned in the said schedule for the removal and carrying away of offensive matter or rubbish resulting from such business, trade, profession or calling.

Discretion of the Commissioners to refund or remit whole or portion of the amount payable for removal of business or trade refuse

5 The Commissioners may in their discretion remit or refund the whole, or such portion thereof as they may think fit, of the amount so payable if they are satisfied that any such person removes the offensive matter or rubbish himself, or has exercised any such business, trade, profession or calling for a portion of the half-year only.

Permit shall be for six months, commencing in April and October in each year.

6. Such permit shall be for a period of six months commencing in April and October in each year—and shall be taken out not latter than the 1st of June and the 1st of December in that year.

Schedule of rates for removing offensive matter, rubbish, &c.

7. The following is the schedule of rates for removing offensive matter or rubbish refuse resulting from bazar, screw-house, stable, cow-shed, &c. :—

	Per month. Rs.	A.
For a large cart of eighty baskets	40	0
For a small cart of forty baskets	20	0
For every second class horse, pony or mule	1	0
For every third class horse, pony or mule	0	8
For every bull or buffalo used for drawing a cart	0	4
For every cow or buffalo kept by a gowala	0	2
For every donkey	0	2
For every basket load	0	8
For every ten goats or sheep	0	8

List of traders that are liable to pay the trade refuse tax—

Livery-stable keeper	per cart-load.	
2nd class hackney carriage owner	„	horse.
3rd do. do.	„	horse.
Carters	„	bullock.
Gowalas...	„	cow.
Horse dealers	„	horse.
Screw-house keepers	„	cart or basket-load.
Bazar-owners	„	ditto
Shoe-makers	„	basket-load.
Coach-builders	„	cart or basket-load.
Hotel-keepers	„	ditto.
Boarding house keeper	„	ditto.
Shepherds	„	every 10 sheep.
Goatherds	„	every 10 goats.
Iron founders	„	cart or basket-load.
Hide store-keepers	„	ditto.
Sugar candy manufacturers	„	ditto.
Flour, oil, and soorkey mill-owners	„	ditto.

Jute, hemp, &c., not to be steeped in any khal, tank, &c.

8. No person shall steep in any river, khal, tank, or ditch within municipal limits any jute, hemp, or other organic matter likely to render the water of such river, khal, tank, or ditch offensive or noxious to the neighbourhood.

Obstructions not to be set up in any drain or water-course.

9. No person shall, without the written permission of the Commissioners, set up any obstruction in any public water-course.

Dead animals to be removed within three hours after death.

10. The skinning platform situated at the east end of the square mile of ground belonging to the Commissioners at Dhappa has been provided and set apart for the deposit of the carcasses of animals removed in accordance with the provisions of section 306, Act II (B.C.) of 1888.

11. No fee shall be charged for the reception of a carcass removed to the platform by the occupier or person in charge of the animal if deposited with its skin, but if the skin is removed before deposit, a fee of Re. 1 shall be charged for every carcass when deposited.

No fee to be charged for reception of carcass removed by the owner.

12. The proper officer of the Corporation to whom the death shall be reported shall be the Inspector of the Ward in which the premises are situated.

Inspector of the Ward the proper officer to whom the death of an animal to be reported.

13. The fee for the removal of a carcass to the skinning platform by the Commissioners shall be—

Fees for removal of carcasses.

	Rs.	A.
For every horse, bull, bullock, cow, pony, or for any other animal weighing more than 2 maunds	1	8
For every sheep, pig, or for any other animal weighing more than 1 maund	1	0
For every animal not specified above weighing less than 1 maund	0	8

No Inspector when called upon shall neglect to remove a carcass.

14. No person shall deposit, or cause to be deposited, any carcass, or any part of a carcass, in any place other than the place appointed by the Commissioners for the reception of such carcass, and no person shall throw, or cause to be thrown, any carcass, or any part of a carcass, into any public street, lane, or thoroughfare, or into any drain without the express permission of the Commissioners.

Carcasses to be deposited only in such places as may from time to time be appointed by the Commissioners.

15. No person shall construct or place over any public drain any bridge, platform, building, or structure of any kind except by, and with the written permission of, the Commissioners, and in such manner as they shall direct.

Bridge, platform, &c., not be constructed or placed over any public drain.

16. No person shall prepare any channel, or convey water by any channel, across any public thoroughfare except in such manner as shall have been first approved by the Commissioners.

Water not to be conveyed through any channel across any public thoroughfare.

17. No person shall picket animals, or collect carts, or form any encampment upon any public ground within the limits of the Municipality without the permission of the Commissioners.

Animals not be picketed or carts collected upon any public ground.

18. No person shall throw or cause to be thrown, any corpse or carcass, or any part of a corpse or carcass, into any river or nulla or canal or on the banks of any river, nulla or canal within the limits of the Town of Calcutta.

Corpses or carcasses not be thrown into rivers, &c.

19. No person shall take down, alter or remove any fencing, bar, chain or post, or extinguish or remove any lights placed or fixed across or in any street for purposes of public safety, and to prevent the passage of carts, cattle, carriages and horses or other animals while those streets are under repairs, or while works are being carried on in them by the Commissioners.

Fencing, bar, &c., fixed across or in any street not to be taken down or altered.

20. No person shall place or leave, except for temporary relief, any furniture, wares, or merchandise, or any cask, tub, basket, pail or bucket, or shall place or use any standing place, stool, bench, stall, or show-board on any public street, or shall place any blind, shade, covering, awning or other projection over or along any such public street, unless permission to do so has been obtained in writing from the Commissioners

Furniture, goods, awning or other projection not to be placed over or along any footway without the permission of the Commissioners.

21. No person shall place, hang up, or otherwise expose for sale any goods, wares, merchandise, matter, or anything whatsoever, so that the same project into or over any public street or beyond the line of any house, shop, or building, at which the same are so exposed, so as to obstruct or incommode the passage of any person over or along such public street.

Goods, wares, merchandise, &c., not to be hung or placed, so as to project into or over any footway or beyond the line of any house or shop.

22. No person shall place any line, cord, or pole across any street, or hang or place any clothes thereon, without the sanction of the Commissioners.

Line, cord, or pole not to be placed across any street or clothes hung thereon.

23. No person shall erect any scaffoldings for hoards which are not well secured.

Scaffolding for hoards not to be erected unless well secured.

24. No person shall drive any cart conveying stone, ballast or bricks without properly securing the same from falling into the public street.

Carts conveying stone, ballast, &c., to properly secure the same.

(*d*) The conditions under which persons shall be permitted to drive registered carts—

1. No person shall be permitted to drive a registered cart unless he is of the age of fourteen years or upwards, and unless he complies with the regulations mentioned below.

Age of carters.

2. He shall always drive on the extreme left of the road in a line with other carts proceeding in the same direction, and shall not in any way make an attempt to pass the cart immediately in front of him.

Cart to be driven on the left of the roadway.

3. When there is a train of more than ten carts in front of him and proceeding in the same direction, he shall leave a clear space of not less than six feet between his own and the last cart of the train, and drive in a line with the train as hereinbefore provided.

Carters to keep in line when there is a train of ten carts.

4. No person shall load or unload carts in narrow thoroughfares except in such portions thereof as admit the passage of another cart alongside.

Loading and unloading of carts in narrow thoroughfares.

5. When loading or unloading goods in streets which admit of the passage of two carts abreast, the carter shall rest his cart alongside of the footpath with one of its wheels touching the curb-stone.

Loading and unloading of carts in wide streets.

6. He shall light his lamp as soon as it becomes dark, and obey all reasonable orders of the police on duty.

Lighting of carts.

H. J. S. COTTON,
Offg. Secretary to the Govt. of Bengal.

DECLARATION.

The 18th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Bankoora Municipality for a public purpose, viz., for the construction of a slaughter-house in the village of Junbedia on the side of the Bara Chakra road, pergunnah Bishenpore, thana Bankoora, zillah Bankoora, it is hereby declared that for the above purpose a piece of land measuring, more or less, 8 cottahs and 9½ gandas of standard measurement, is required. The land is bounded on the North by the paddy lands of Paresh and Kángál Raut; on the South by the Bara Chakra road; on the West by Paresh Raut's land; and on the East by Sheik Mazooddin Ahmed's *Danga*.

This declaration is made under the provisions of section 6 of Act X of 1870 to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, JANUARY 22, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Monghyr will be put up for sale at the Collector's Office of that district on 28th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.		*I.—Permanently-settled estates.*		Rs. A. P.	Rs. A. P.	Rs. A. P.
13	Jons, pergunnah Salemabad.	613 14 0	. .	2a 13g 6c. 13b. ...	Kuldip Narain Singh and others.	102 5 0	... ..	104 6 0
13	Ditto ..	613 14 0	.....	3a 3d. 18c. 6f. 14r. ..	Ramman Singh and others	122 10 0	...	74 10 6
283	Belchhi, pergunnah Amerthu	641 1 0	. .	2a 8d.	Gopal Singh and others ...	96 3 0	.....	10 1 0
283	Ditto	641 1 0	.....	3a.	Ramadheen Rai and others	120 1 0	...	29 1 0
602	Parora, pergunnah Ballia	830 15 0	.....	1 dam	Lachmi Kumri	2 10 0	.....	0 2 0
602	Ditto ..	830 15 0	.....	1a. 11d 1c. 1d. 4r. 2p.	Lal Mohun Mullik and others	132 2 0	... ..	1 5 6
629	Sultanpur Tetri, pergunnah Ballia.	893 0 0	.. ...	11a 9d 1k.	Sheik Tohower Hossain and others.	639 5 0	...	131 15 0
804	Taluqa Tulsipur and others, pergunnah Malki	932 10 0	.....	1a. 18d. 2d.	Manohar Lal and others ..	110 15 3	.....	58 12 9
830	Ganga Persad, pergunnah Malki	688 3 0	.....	2a 1c. 1k. 9r.	Reet Lal Singh and others	121 2 0	.....	61 5 3
1451	Bhowanandpur *alias* Ramdeari, pergunnah Malki	1,166 13 0	.....	1a. 5g. 1c. 3d.	Shew Dyal Singh and others	91 9 0	.....	21 14 0
1451	Ditto ..	1,166 13 0	.....	5g. 2c. 8d. 2k. 5f. ..	Mussamut Amrito Kumri and others.	20 15 0	... .	3 15 0
1451	Ditto ...	1,166 13 0	.....	16g 2c 6d.	Bhojraj Singh and others	60 12 0	.. ...	14 11 0
2305	Chuckangra, pergunnah Amerthu.	1,083 14 0	.. ...	1a. 15d. 11c. 2b. 4f. 3b.	Shah Mohamad Hossain and others.	120 7 0	.. ..	29 14 0
2317	Imannagar, pergunnah Amerthu.	613 14 0	Whole ...	... ..	Syed Tassaduk Hossain and others.	.....	0 13 6	.. ...
2746	Halsi, pergunnah Amerthu.	1,504 1 0	.....	13a. 10d. 5c. 2b. ...	Beni Singh and others ...	1,282 0 0	... ..	220 14 0
2779	Mahiuddinagar Karik, pergunnah Amerthu.	564 11 0	.....	3a.	Kokil Singh and others ...	96 3 0	.....	11 14 0
2779	Ditto ...	564 11 0	... .	2a.	Rohim Singh and others	120 9 0	...	0 14 0
3239	Mohamedpur Fataha, asli and dakhil, pergunnah Emadpur.	708 0 0		12a.	Moulvi Asrafuddin Ahmad and others.	531 0 0	.....	18 14 9
				II.—Temporarily-settled estates.				
1433	Akberpur Barari, pergunnah Malki.	783 13 0	.....	14a.	Kharag Singh and others	685 14 0	.....	60 8 8

Monghyr Collectorate, the 4th December 1889. T. E. COXHEAD, Officiating Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 31st January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
	Thanas Town and Ranzan—	Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2 / 2	Taruf Ajoidha Ram, Fattiabad.	723 13 0	Yes: the whole estate is to be sold.	.....	Pran Kristo Das, Ram Shabak Das and others.	...	49 8 8	.....
	Thanas Patya, Futtickcherry, Hathazari, and Satkania—							
25 / 51	Taruf Alearkhan ..	1,600 0 9	No: only shares are to be sold.	Separate accounts having been opened under Act XI of 1859, share No. I, Asad Ali Khan; share No. II, Akber Ali Khan, share No. III of the remaining proprietors.	Share No. 1, proprietor Anwar Ali Khan.	468 7 5	...	139 1 6
					Share No. 2, Asharaf Ali Khan and Jandah Bibi and others	811 6 3	.....	240 14 2
					Share No. 3, Uzir Ali and Anwar Ali Khan.	326 3 1	.....	96 13 0
								476 12 8
	Thanas Futtickcherry, Hathazari, Patya, Ranzan, Town, and Zowargunge—							
28 / 54	Taruf Anandi Ram, Kanongoe.	849 6 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 10, Ram Joy Mohazan; share No 11, Ram Joy Mohazan; share No. 13, Sudder Ali, and share No 24, Bishambur.	Share No. 10, Kali Kumar, Durgakripa De.	12 11 0	... ..	3 13 3
					Share No. 11 Kali Kumar, Durgakripa De.	14 14 0	.....	4 6 6
					Share No. 13, Asharaf Ali Amincilia, *alias* Gurun Meah	11 0 0	.....	3 4 3
					Share No. 24, Kali Kumar and Durgakripa De.	53 15 5	.....	16 9 6
								27 7 6
	Thanas Hathazari, Ranzan, and Town—							
29 / 55	Taruf Aziz Nazarat ...	701 12 0	Yes: the whole estate is to be sold.	.....	Sheik Karam Ali Meah.	.... .	235 0 1	.....
	Thana Futtickcherry—							
37 / 64	Taruf Annundy Manollah	1,160 0 3	Ditto ...	.....	Nemai Charan Nandi, Gunashila.	.....	59 1 6	.....
	Thana Ramzan—							
63 / 391	Taruf Basanta Ram, Fatehabad	557 14 3	Ditto .	.....	Anunda Mohon, Samad Ali and Sreemati Meherjan Bibi and others.	.. .	81 1 0	.....
	Thanas Hathazari, Futtickcherry, Patya, Town, and Satkania—							
92 / 401	Kismat Balaram Sircar Babolt, taruf Sonoullah Khan	1,063 11 3	Ditto ...	.....	Gris Chandra Rakhit and Guru Das Rakhi	.....	315 12 6	.....
	Thanas Bhatiari, Hathazari, Ramoo, Zorwargunge, Patya, and Satkania—							
170 / 523	Kismat Bissessari Babolt, taruf Gouri Sankur.	1,228 12 9	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 13 of the remaining proprietors.	Share No. 13, Mohabat Ali, Mahamed Hossen, Kali Charan and others	404 13 11	.....	8 13 6
	Thanas Futtickcherry, Hathazari, Patya, Town, Satkania, and Ramoo—							
257 / 1293	Taruf Jubber Dust Khan .	6,538 11 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 1, Fazal Ahamud.	Share No. 1, Fazal Ahamud and Bazal Samad.	2,043 14 5	... ..	200 13 5
	Thanas Futtickcherry, Hathazari, Patya, and Satkania—							
284 / 1467	Taruf Karim Khan .	715 12 0	Yes: the whole estate will be sold.	.....	Anwar Ali Khan ..	.....	210 0 0	.....
	Thanas Patya and Satkania—							
286 / 1469	Taruf Komur Kulli ...	1,015 13 0	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 10, Dwarka Nath Kundo.	Dwarka Nath Kundo	68 10 5	...	20 5
	Thana Ranzan—							
305 / 1552	Taruf Kanuz Fernandez	1,640 5 3	Yes: the whole estate will be sold.	...	Gris Chandra Roy Rakhit, Guru Das Roy Rakhit, and others.	.....	486 15 0	.....
	Thana Bhatiari—							
336 / 1751	Taruf Modun Chowdhury	688 6 5	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 4, Kosha-lya	Shib Prosad Shukul	141 10 0	.....	42 0 9
	Thanas Hathazari and Ranzan—							
372 / 1889	Taruf Mohomad Shafi Nazir.	558 7 3	Yes: the whole estate will be sold.	.....	Susty Charan Sen, Bhairub Chandra Chowdhury and others.	.....	155 12 3	.....

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
389 / 1990	Thana Zorwargunja— Taruf Mohomed Monohur	666 15 6	Yes; the whole estate will be sold.	.....	Sreemati Raiso Nissa Chowdhurin.	.....	198 0 0	.....
	Thanas Hathazari, Patya, Ranzan and Town—							
480 / 2452	Kismut Pran Krista, Gopi Mohun, Guru Das and Haridas Roy Baboit, taruf Jugul Kissor Chowdhury.	3,353 14 6	No; only shares will be sold.	Separate accounts having been opened under Act XI of 1859, share No 2, Akhil Chandra Roy, share No. 6 of the remaining proprietors.	Share No. 2, Akhil Chandra Roy.	881 8 9	.....	113 4 4
					Share No. 6, Gris Chandra Roy, on behalf of minor Bhikon Chandra and Esof Ali and others.	1,329 2 8	.....	365 4 7
								478 8 11
	Thanas Futtickcherry, Patya, Hathazari, Ranjan and Town—							
	Taruf Pran Ballab ...	944 5 5	No: only a share will be sold.	Ditto, share No. 2, Mohesh Chandra Chowdhury.	Mahesh Chandra Chowdhury and Obhoy Charan Chowdhury and others.	118 0 8	.....	35 0 9
	Thana Ranzan—							
51 / 2558	Taruf Raghob Juggodish	815 0 3	Ditto ...	Ditto, share No. 12 of the remaining proprietors.	Gunga Das, Brejo Mohon and others.	138 2 1	.....	24 3 7
	Thanas Patya, Ranzan, Town, and Hathazari—							
51 / 2546	Taruf Ram Mohon Sen ...	884 11 3	Yes: the whole estate will be sold.	.....	Prasanna Kumar and Ali Mosh.	.....	129 13 6	.....
	Thanas Chakaria, Patya, Ranzan, and Town—							
527 / 2554	Taruf Ram Sondar Kanongoe.	849 6 6	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2 of the remaining proprietors.	Srimoti Latifa Khatun.	681 6 6	.....	202 3 9
	Thanas Zorwargunge, Patya, Ranjan and Satkania—							
535 / 2555	Taruf Ram Kishore Kanongoe.	818 11 10	Ditto ...	Ditto, share No. 6, Ram Chandra Biswas and Bangshi Badon Biswas.	Mohesh Chandra Bhattacharjee.	14 11 0	.....	4 5 9
569 / 2929	Thanas Patya and Town— Taruf Sachi Roshun ...	752 11 0	No: shares will be sold.	Ditto, share No. 1, Sheek Sadak Ali; share No. 2, Keramut Ali.	Share No. 1, Sadut Ali Chowdhury.	82 5 3	.....	24 7 1
					Share No. 2, Anwar Ali Chowdhury.	188 2 9	.....	17 10 3
								42 1 4
	Thanas Bhatlari, Hathazari, Zowargunge, Patya, Ranzan, Town and Satkania—							
573 / 2933	Taruf Sachi Ram Kanongoe.	26 12 9	No: shares will be sold.	Separate account having been opened under Act XI of 1859, share No. 1, Lal Mohomed; share No. 16, Dwarka Nath Kanongoe; share No. 52, Ram Kumar Dey and others; share No. 63 of the remaining proprietors.	Share No. 1, Lal Mohamed.	4 14 3	.....	1 7 3
					Share No. 16, Dwarka Nath Kanongoe on behalf of Lakhi Narain Chackro.	4 4 6	.....	1 4 3
					Share No. 52, Ram Kumar Brejo Bashi.	0 10 6	.....	0 2 11
					Share No. 63 of the remaining proprietors Asanullah Chowdhury and others.	293 0 3	.....	83 8 9
								86 7 3
	Thanas Hathazari, Patya, Ranzan and Town—							
590 / 3054	Taruf Shib Durga Sharan...	2,942 6 9	No: only a share will be sold.	Ditto, share No. 8, Shoobal Chandra Das.	Shoobal Chandra Das.	25 14 5	.....	7 9 5
	Thana Chakaria—							
606 / 3113	Taruf Sheremast Khan Chowdhuri.	527 6 6	Ditto ...	Ditto, share No. 1, Fazal-ahamed.	Share No. 1, Fazal-ahamed, Hazal Sanad and others.	165 10 0	49 2 8	.....

N. B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 25th September 1889.

Chittagong Collectorate, the 14th December 1889. G. H. ALLEN, for Offg. Collector

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Patna will be put up for sale at the Collector's Office of that district on 3rd February 1890, corresponding with 28th Magh 1297 F S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 28th September 1889 :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
11	Berhna Lashkaripur Busurg, pergunnah Bhimpur.	1,038 0 0	Whole ..	.....	Kesho Lal and Kissen Prosad and others.	... ..	0 5 0	.....
12	Berhna Lashkaripur Busurg Nisf, pergunnah Bhimpur	2,129 0 0	.....	15a. 19d.	Kesho Lal and others, non-applicants.	2,122 5 6	.....	530 13 0
17	Indowt, pergunnah Shahjehanpur.	1,015 0 0	Whole ..	.....	Syed Wajid Hosain and others.	.....	9 15 0	.....
20	Sani Hissa Nisf, pergunnah Biswak.	1,255 2 8	.....	1a. 5d. 7k. 17b. 6ph. 10t.	Mussamut Nasiran and others, applicants for separation of accounts.	99 13 0	.....	14 4 8
20	Ditto ...	1,255 2 8	.....	1a. 11d. 13k. 6r. 8ph. 9r. 4t. ...	Mussamut Rohiman and others, applicants for separation of accounts.	124 2 11	.....	11 10 5
21	Bhadsara, pergunnah Masaudha.	1,314 5 6	.....	Gopepur 1a. 4p.	Hardoot Narain Singh, applicant for separation of accounts.	3 2 5	.....	6 4 10
28	Chainpur Shekhopur Barhampur, pergunnah Azimabad.	913 0 0	.....	Shekhopur 3a.	Rameshwar Singh and others, applicants for separation of accounts.	57 1 0	.....	11 1 8
28	Ditto ..	913 0	.....	Shekhopur 2a.	Ramboollab Singh, applicant for separation of accounts.	38 0 8	.....	0 0 1
28	Ditto ...	913 0 0	.....	Shekhopur 13a. 1d. 11k. 19b. 14ph. 16r. 17rot. 1bátki. Barhampur 6a. 18d. 6k. 13b. 7ph.	Gowri Shanker and Parmah Singh and others, non-applicants.	210 6 8	.....	3 0 6
40	Basidpur Parthu, pergunnah Telladha.	533 5 4	.....	9a. 8p.	Mussamut Jharokha Koer and others, non-applicants.	322 3 8	.....	3 0 5
47	Hissah Chawsanda, pergunnah Biswak.	906 10 8	.....	6a. 16k. 15b. 6ph. 13r.	Malik Zohurul Haq and others, non-applicants.	342 5 0	.....	9 11 3
65	Chak Rudarman, pergunnah Phulwari.	921 5 3	.....	Chak Rudarman 4a. 9d. 8k. 6b. 12ph. 7r.; Keshwarpur Digha 1a. 3d. 1k. 1b. 5ph.	Sheikh Lal Mohommad and others, non-applicants.	113 13 0	.....	9 8 5
65	Gokhulpur, pergunnah Pilich.	745 11 2	.....	10d. 14k. 4b. 6ph. 5t.	Chowdhry Harbans Narain Singh, applicant for separation of accounts.	24 15 9	.....	1 8 9
65	Ditto ...	745 11 2	.....	6a. 12d. 1k. 15b. 13ph. 19r. 5t. Tilwari.	Bidhi Chand and others, non-applicants.	306 4 2	.....	1 12 11
69	Poona Chharyari, pergunnah Pilich.	1,068 12 .0	Whole ...	.....A.....	Baboo Dwarka Nath, Manager, Court of Wards, in charge of the estates of lunatic Debi Prasad.	.....	130 11 4	.....
70	Gobindpur Berhna, pergunnah Bhimpur.	624 0 0	Do. ...	....	Durga Singh and others.	.....	13 3 0	.. ...
78	Deara Mohasee Kothi Shora, pergunnah Azimabad.	854 5 7	.....	4a.	Sheo Persad Singh and others, applicants for separation of accounts.	313 9 5	.....	30 3 4
78	Ditto ...	854 5 7	.....	7a. 1p. 10k.	Mussamut Wolnyti Jan and others, non-applicants	380 6 11	.....	14 8 1
98	Doiya, pergunnah Biswak.	1,169 11 6	Whole...	.....	Syed Ali Hossein and others.	.....	8 7 6	.....
101	Kapsiyawan, pergunnah Pilich.	1,813 6 1	.....	14a. 8d. 12k. 13b. 15ph.	Syed Majibor Rohuman, Manager of the estate of Debi Persad, lunatic, applicant for separation of accounts.	1,635 2 0	.....	74 12 10
102	Kaila, pergunnah Pilich.	854 6 5	Whole...	.....	Mussamat Sharfan and others.	.....	7 6 2	.. ...
103	Dowlatpur Deoria, pergunnah Ballia.	871 7 6	Do. ...	.....	Mussamut Bibi Makhdooman and others.	.....	19 1 3	... ..
104	Eksara, pergunnah Biswak.	1,838 2 2	Do. ...	.....	Mir Enayat Hosain and others.	.....	0 13 8	.....
113	Mohammadpur, pergunnah Pilich.	538 10 8	.....	Mohammadpur 11a. 11d. 10k.; Sekandarpur 16a. Yarpur Balwa 8a.	Babu Parsidh Narain Singh and others, non-applicants.	399 10 8	.....	2 9 5
126	Ghostawan, pergunnah Biswak.	659 8 11	. ....	10a. 11d. 19k. 11b. 18ph. 14r. 2t. ...	Mussamut Fakhran Nissa *alias* Nanhi Begum and others, non-applicants.	486 13 8	.....	10 9 9
128	Norari, pergunnah Pilich.	1,174 6 5	Whole	.....	Babu Parandip Narain Singh and others.	...	72 8 5	.....
129	Baruhi Khass, pergunnah Manair.	565 2 0	.....	11a. 19p.	Reta Singh and others, non-applicants.	415 0 3	..	46 11 5
135	Mirzapur Berhna, pergunnah Bhimpur.	737 0 0	Whole ..	.. ..	Mussamut Soobanso Kuer and Ram Sahai Singh and others.	.....	60 0 9	.....
135	Khagura, pergunnah Shahjehanpur.	1,495 14 6	Do. ...	.....	Mussamut Bibi Khadaija and others.	.....	100 9 8	.....

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
142	Peer Barhawna, pergunnah Pilich.	520 2 8	.....	5a. 12d. 12k. 10b. 9ph. 2r. ...	Mussamut Sharfan and others, non-applicants.	204 3 3	.....	6 2 2
147	Qasbe Barhawna, pergunnah Pilich.	5,712 0 0	.....	Qasbe Barhawna 2a. ; Korut 2a. ; Barara 2a. ; Arawan 2a ; Babhaniawan 2a. ; Athbalpur Paithera 2a.	Mussamut Faschan, applicant for separation of accounts.	714 0 6	.....	0 0 6
147	Ditto	5,712 0 0	.....	Qasbe Barhawna 12a. 5d. 2k. 10b. 1ph. 10r. ; Korut 11a. 6d. 15k. 16b. 16ph. 10r. ; Barara 12a. 17d. 10k. 2b. 7ph. 10r. ; Arawan 12a. 17d. 10k. 2b. 7ph. 10r ; Babhaniawan 13a 5d. 2k. 10b. ; Athbalpur Paithera 12a. 5d. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kefayat Hosain, and others, non-applicant.	4,490 10 10	.....	338 0 5
153	Bakawan, pergunnah Gyaspur.	724 4 3	Whole ..	.....	Madput Narain *alias* Munshi Mahto and others.	.....	4 9 6	.....
154	Rampur Imi, pergunnah Pilich.	563 7 0	Do. ..	.....	Mussamut Jagpati Kuor, mother and guardian of Ram Prasad Singh and others.	.....	0 7 6	.....
158	Raipur Astha, pergunnah Pilich.	1,442 2 3	.. ...	8a. 3d. 17k. 13b. 2ph. 10r. ...	Lall Narain Singh, applicant for separation of accounts.	188 13 6	.....	8 8 6
158	Ditto ..	1,442 2 3	.. .	Raipur Astha 1a. 15d. 11k. 4b. 10ph. ; Astha 1a. 7d. 11k. 15b. 7ph. 2r. 10t.	Shaik Abdul Hamid and others, non-applicants.	126 4 5	.....	0 7 0
169	Rampur Berhna, gunnah Bhimpur.	998 8 0	Whole .	.....	Sham Lal Singh and others.	.....	54 15 0	.....
172	Durveshpura, &c , pergunnah Behar.	832 0 0	... ..	Durveshpura 10d. 10k. ; Akhtyarpur Bareili 6a. ; Gobindpur Bhedi 8a.	Darshan Lal and others, non-applicants.	142 11 7	.....	16 4 10
180	Sernawan, pergunnah Pilich.	587 2 3	.....	5a. 18k. 8b. 5ph.	Permeshar Narain Singh and others, non-applicants.	184 9 3	.....	6 14 2
187	Shekh Mohammadpur, pergunnah Bhimpur.	502 14 0	.....	11a.	Mussamut Saliman and others, non-applicants.	407 9 6	.....	22 3 10
188	Shekh Mohammadpur Hayatpur, pergunnah Bhimpur.	704 10 11	.....	10a. 3d. 11k. 11b. 4ph.	Harakh Narain Singh and others, non-applicants.	448 2 11	.....	68 4 8
201	Pariawna, pergunnah Biswak.	1,706 10 0	.....	12a. 13d. 6k. 13b. 10ph.	Babu Luchmi Narain and others, non-applicants.	1,351 1 9	.....	0 4 3
225	Akberpur Bhadwar, &c., pergunnah Massandha.	3,215 10 9	.....	Akhberpur Bhadwan 16a. ; Darawan 4a. ; Panscohi 16a. ; Shorampur 16a. ; Sherpura 16a. ; Mushanpur Lachaman 16a ; Mominpur Na Dewana 16a. ; Mascompur Bindowli 16a. ; Chak Shamsuddin 16a ; Korara 16a. ; Katari Behari 16a. ; Rupapur 16a. ; Palgamberpur 16a. ; Shewdaspur Kurkuri 16a ; Jadapur 16a. ; Moazzamabad Bali Pakur 16a ; Duresapur Anant 16a. ; Sekaria 16a. ; Parsoorampur Heer 16a ; Jalalpur Ilahi 16a. ; Rampur Mirsoll 16a. ; Kishwarpur 16a. ; Shahasdpur Mosi 16a. ; Atapur Rukun 16a. ; hela Gobindpur 16a. ; Alampur Jarkhi 16a. ; Raghunathpur Mera 16a. ; Saidabad Rakram 16a. ; Patranga 16a. ; Ahmadabad Khonivan 16a. ; Pali Patwna 16a ; Patwona 16a ; Raghunathpur Jag Bandan 16a. ; Kaurikesho 16a. ; Kishopur 16a. ; Massurha Khas 16a. ; Hadjnagar 16a. ; Nasirpur Bagah 16a. ; Bilta 16a. ; Abdullapur Khan Qali 16a. ; Ganga Chak Mal Nezampur 16a. ; Dadoopur 16a. ; Mohammadkhanpur Dara 16a. ; Fazilpur Patan 16a. ; Ibrahimpur Jurga 16a. ; Rampur Gunga 16a. Parsoorampur Kauak 16a. ; Bishunpur Malshahi 16a. ; Sarawti 16a. ; Karanpura 16a.	Darshan Lal and others, non-applicants.	2,604 11 10	.....	41 0 6
227	Narendpur Kharownia, &c., pergunnah Azimabad.	5,885 5 6	.....	Hazratpur Akarya 17a. 15d. 11b 2p.	Rachoya Singh, applicant for separation of accounts.	6 4 4	.....	3 5 3
227	Ditto ...	5,885 5 6	.....	Narendapur Kharownia 2a. 8p. ...	Jagarnath Singh and Rashunath Singh, applicants for separation of accounts.	213 7 10	.....	0 0 9
229	Ditto ...	1,185 5 7	.....	Hiranandpur 16a.	Jagan Lal and others, applicants for separation of accounts.	57 9 8	.....	0 2 7
229	Ditto ...	1,185 5 7	.....	Janarjanpur 2a. ; Hazratpur Akhariya 2a.	Ram Lall and others, applicants for separation of accounts.	17 1 8	.....	0 3 8
229	Ditto ..	1,185 5 7	.....	Janarjanpur 2a. ; Hazratpur Akhariya 2a.	Surjoo Mahto, applicant for separation of accounts.	17 1 8	.....	1 13 6
251	Amari O, Sain, &c., pergunnah Behar.	737 0 9	... ..	Akhtyarpur Pawa 5a. 2d. 10k. ..	Chirangir Singh and others, non-applicants.	267 11 6	.....	15 2 9
295	Mirzapur Gilani, pergunnah Telladha.	1,318 0 0	.....	7a. 10d.	Moulvi Jalaluddin and others, applicants for separation of accounts.	617 13 0	.....	12 12 3
315	Saidpur Gowhar Chak Madho, pergunnah Azimabad.	503 9 1	Whole...	.....	Syed Ali Ashraf *alias* Peyari Sahib.	.....	1 4 3	.....
317	Mandach Gyan Koer, pergunnah Tilladha.	1,667 0 0	.. ...	8a. 11d. 13k. 6b. 14p....	Shekh Feda Ali and others, non-applicants.	904 15 1	.....	5 4 2
347	Parthee, pergunnah Tilladha.	600 0 0	.....	6d. 7b. 12r.	Syed Khairat Ahmad, applicant for separation of accounts.	15 0 9	.....	0 15 0
347	Ditto ...	600 0 0	.....	8a. 17d. 7k. 5b. 5ph. 12r.	Mussamut Jharokha Koer and others, non-applicants.	190 13 3	.....	0 1 5
355	Khoda Bakhshpur, &c., pergunnah Azimabad.	3,236 0 7	....	Pir Mohamadpur Dara 16a. ...	Jaggu Lal Upadhia and others, non-applicants.	473 10 7	.....	87 13 11
363	Akbarpur Bhadwar, &c., pergunnah Massawdha.	1,120 4 1	.....	Saidabad 16a. ; Kessenpur Baigam 10a. ; Abdullapur Khan Quilh 16a.	Raja Ram Singh and others, applicants for separation of accounts.	10 2 3	.....	4 6 3
363	Ditto ...	1,120 4 1	.....	Azizabad Haldha 9a. 10d. 7k. 12b. ; Shahzadpur Nuri 9a. 10d. 7k. 12b ; Ghowpur Bhadwar 3a. 3d. 9k. 4b.	Ram Kewal Singh and others, applicants for separation of accounts.	38 14 8	.....	2 10 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
363	Akbarpur Bhadwar, &c., pergunnah Masawdha.	1,120 4 1	.....	Dorawan 1*a.* 5*d.*; Saidabad Bekra 1*a.* 5*p.*; Shewdaspur Kurkari 1*a.* 5*d.*; Sekaria 1*a.* 3*d.*; Daryapur Aunat 1*a.* 5*d.*	Hulchi Kuer and others, non-applicants.	79 11 1	.....	26 13 5
379	Jaipur Hathea Kandh, pergunnah Manair.	611 1 6	.....	10*a.*	Gobind Persad and others, non-applicants.	506 14 11	.....	147 7 9
395	Rajapur Hasan Kurji Degha, pergunnah Phulwari.	638 0 2	.....	Kurji Digha 8*a.*	Pitambar Singh and others, non-applicants.	284 7 1	.....	3 6 11
402	Dehri, &c., pergunnah Gyaspur.	3,136 0 0	.....	Dehri Dhanrar Badal Singh 10*a.* 10*d.*; Parsawan 10*a.* 10*d.*; Sarajpura 10*a.* 10*d.*; Sarhan 10*a.* 10*d.*; Baddo Kosenpur 10*a.*; Chak Bamo Hiranand 10*a.* 10*d.*; Chak Bamo Sujar 10*a.* 10*d.*; Chak Hamed Sewdah 10*a.* 10*d.*; Chando Badul Singh Hiranand 10*a.* 10*d.*; Dhaurafpur 10*a.* 10*d.*; Chak Bhudeo 10*a.* 10*d.*; Gossa 10*a.* 10*d.*; Sherpur Meduapur 15*a.*; Chatarbhojpur Kosenpur 15*a.*	Mussamut Fahman and others, non-applicants.	2,192 12 9	.....	10 11 5
410	Ophansepur O, Qasbe Helsa, pergunnah Pilich.	549 14 1	.....	6*a.* 10*p.* 5*k.* 14*m.* 5*d.* 15*b.*	Ambika Persad Singh and others, non-applicants.	235 10 6	.....	6 1 8
436	Lodipur Hathia Kandh, pergunnah Manair.	789 0 0	.....	6*a.* 8*p.*	Gobind Persad and others, non-applicants.	307 14 8	.....	30 0 0
476	Sartha Manpur Sartha, pergunnah Tiliadha.	662 13 7	.....	7*a.* 15*d.* 10*k.*	Jugul Kiswar Singh and others, non-applicants.	322 1 6	.....	1 15 5
478	Ditto ...	540 14 3	Whole.	.....	Mussamut Toola Kuer, mother and guardian of Chattor Singh, and others.	.....	33 12 11	.....
486	Panchitara, &c., pergunnah Behar.	1,160 9 0	.....	Panchitara 2*a.*; Moheuddinpur Deokhali Khard and Buzurg 1*a.*; Bhagpur Owkali 6*a.*; Mozaffer-pur Pitowngia 2*a.*; Kaleyanpur Chistipur Azizullahpur Chistipur 10*d.*	Mohammad Sher and others, non-applicants.	70 9 10	.....	10 5 7
497	Poorah Noswan Sepao, pergunnah Behar.	1,398 13 0	.....	12*a.* 19*d.* 9*k.* 2*b.* 10*p.*	Mussamut Moriawan and others, non-applicants.	1,134 2 5	.....	6 11 7
519	Oosap, pergunnah Sanda.	957 0 0	Whole.	.....	Nawab Syed Latif Ali Khan, C.I.E., and others.	.....	7 14 5	.....
558	Kishunpur Karawha, &c., pergunnah Gyaspur.	781 0 0	.....	14*a.* 10*k.*	Khaje Syed Hassan and others, non-applicants	685 6 5	.....	11 2 10
572	Sandh, &c., pergunnah Sandha.	796 12 10	.....	Sandh 15*a.*; Rahmatpur Pakri 14*a.* 2*d.* 10*k.*	Mussamut Sharfan and others, non-applicants.	727 11 9	.....	8 2 2
668	Anta Raghuram, pergunnah Gyaspur.	686 10 5	.....	6*d.* 8*k.* 18*b.* 17*pk.* 11*b.*	Haluman Singh *alias* Ohhedi Singh, applicant for separation of accounts.	13 15 3	.....	8 3 3
686	Ditto ...	686 10 5	.....	3*a.* 8*b.* 15*pk.* 12*b.*	Shewnarain and others, non-applicants.	125 3 7	.....	26 7 7
724	Jahangirpur Magarpal, pergunnah Manair.	2,316 4 4	.....	1*a.*	Rai Monohar Lal and others, applicants for separation of accounts.	144 12 3	.....	0 4 8
724	Ditto ...	2,316 4 4	.....	15*d.*	Sitapat Sahai and others, applicants for separation of accounts.	108 10 0	.....	2 9 4
724	Ditto ...	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 1*b.*	Mussamut Srians Kuer and others, non-applicants.	230 7 1	.....	10 5 2
726	Yakubpur Toonsi *alias* Fatteh Ali Chak, pergunnah Behar	651 0 0	.....	9*a.* 10*p.* 8*k.* 8*b.*	Syed Mohommad Ismail and others, non-applicants.	401 8 0	.....	40 9 7
				Second kind.				
735	Erazi Towfir Rampur Ghoghpur, pergunnah Manair.	1,236 8 11	Whole.	.....	Srikawal Singh ...	.....	2,065 15 4	.....
				First kind.				
742	Erazi Beshi Diarah Mahasi Jahangirpur Magarpal, pergunnah Manair.	1,561 8 4	.....	2*a.* 5*d.*	Kisendyal Lal and others, non-applicants.	219 11 4	.....	12 4 5
779	Saidpur Soniawan, pergunnah Gyaspur.	626 9 2	.....	7*a.* 8*d.* 5*k.* 5*b.* 14*pk.* 7*r.*	Ahmad Hosain and others, non-applicants.	290 4 4	.....	8 6 5
796	Saksohra, pergunnah Gyaspur.	2,134 6 5	.....	Luchmanpur 2*a.* 5*p.* 17*k.* 5*b.* 13*d.*	Mussamut Girja Kuer and others, applicants for separation of accounts.	57 9 11	.....	1 8 6

Patna Collectorate, the 6th January 1890. PEARY MOHAN BANERJEE, Dy. Collr., for Offg. Collector.

NOTICE is hereby given that or the undermentioned plots of the Nizamut lakhraj State lands situated in the district of Burdwan, Nos. 72 to 75 will be put up to sale on the spot by the Deputy Collector at the Burdwan Collectorate, and No. 89 by the Sub-divisional Officer of Culna, on Monday, the 27th January 1890, corresponding to 15th Magh 1296 B. S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1. The lands to be sold revenue-free to the highest bidder above the upset price, which will be fixed for each plot at the time of sale.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and the purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3. If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the lands to be again put up to sale at the risk of the defaulting purchasers, after issue of advertisement, as in the case of original sale.

5. The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bigahs.	Boundaries.	Remarks
				B. K. CH.		
73	Jaigirdagra	Ukhari .	Shamurshahi.	7 5 7	East of the Bhagar jote lands of Saroo Patan; south and west of jote lands of Budhu Mirdha; south of jote lands of Rasad Mirdha; east of a public road and of jote lands of Mohur Mirdha and of the Bhagar jote lands of Saroo Patan.	*Plot I*—Jote of Sakir Mandal and of Nihar Bibi, wife of Edu Mandal of Narigram.
73	Ditto	Ditto	Ditto ..	10 9 15	North of jote lands of Pitambar Charal, Kedar Chowdhury, Shek Karoo, and Shek Tooraj; west of jote lands of Hara Mirdha, Dohar Mirdha, Kedar Chowdhury and Manik Mirdha; south of jote lands of Sova Mirdha, Haroo Mirdha, Sakauddin Mirdha, Jamman Mirdha, Tarku Shek; east of jote lands of Ulfoo Mandal, Tarku Shek, Karoo Shek, and of Bhagar jote lands of Saroo Shek; south and east of jote lands of Waz Shek.	*Plot II.*—Do do.
74	Ditto	Ditto ..	Ditto ..	13 11	North of jote lands of Manik Mirdha; east of jote lands of Sona Mirdha and Dolai Khan; south of jote lands of Alvardy Mirdha, west of jote lands of Aidu Chowdhury.	*Plot III*—Jote of Takai Mandal of Narigram.
75	Ditto ..	Ditto ...	Ditto ...	4 13 14	North of the chowkidari chakran lands of Tincuri Hari; east of jote lands of Sakauddin Mirdha, Hara Mirdha, Sonaulla Mirdha, and Ronua Lal Charal, south of jote lands of Sonaullah Mirdha, west of the chowkidari chakran lands of Gourub Khan, Patan and Ramdhan Bagdi.	*Plot IV.*—Jote of Sakir Mandal of Narigram.
89	Dakadda	Shyambati	Karajpur	5 15 13	South of the jote lands of Deb Nath Pal and Kunja Mandal; east of the lakhraj jote lands of Deb Nath Pal, north of the lakhraj jote lands and of the barren land of Deb Nath Pal; west of a public road	Jote of Sita Nath Pal and Deb Nath Pal of Shyambati.

Burdwan Collectorate, the December 1889. KEDAR NATH DUTT, for Officiating Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries	Remarks.
			B. K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N ROY, Deputy Collector, for Collector on tour.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1889.			
Dec. 30	25 Cases, D & Co. in a diamond	Order ...	S. S. "Rewa."
1890.			
Jan. 6	1 Case, 348 in a diamond, R C M B outside ...	Ditto ...	Ditto.
,, 6	1 Case, S S by 44 in a block...	Ditto ...	Ditto.
,, 6	8 Cases, L O C K E	Ditto ...	Ditto.
,, 7	1 Case, 360 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,, 7	1 Case, 50 in a diamond, C & Co. top	Ditto ...	Ditto.
,, 7	3 Packages, D T & Co. in a triangle	Ditto ...	Ditto.
,, 7	6 Cases, G 387 in a diamond, W M & Co. below ...	Ditto ...	Ditto.
,, 7	1 Case, 10 in a diamond, G S below	Ditto ...	Ditto.
,, 7	1 Case, J M & Co. by H M	Ditto ...	Ditto.
,, 7	25 Cases, M J A G	Ditto ...	Ditto.
,, 7	1 Case, M S in a diamond, G below	Ditto ..	Ditto.
,, 7	2 Cases, O B E C in a diamond	Ditto ...	Ditto.
,, 7	2 Cases, 38 in a diamond, P top	Ditto ...	Ditto.
,, 7	5 Cases, R W P in a diamond	Ditto ...	Ditto.
,, 7	41 Cases, S C S & Co.	Ditto ...	Ditto.
,, 7	2 Cases, 438 in a diamond, W below	Ditto ...	Ditto.
,, 7	6 Packages, W L in a diamond, C below ...	Ditto ...	Ditto.
,, 7	3 Cases, 908 in a diamond, W N & Co. outside ...	Ditto ...	Ditto.
,, 7	4 Cases, 184 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,, 7	1 Case, B S by 136 in a diamond, L below ...	Ditto ...	Ditto.
,, 7	11 Crates, 9 by 1514 in a diamond, C B & Co outside	Ditto ...	Ditto.
,, 7	2 Case, E D by L in a diamond, A B & Co. outside	Ditto ...	Ditto.
,, 7	1 Case, J C in a diamond, L S & Co. outside ...	Ditto ...	Ditto.
,, 7	1 Case, 918 in a diamond, L B top	Ditto ...	Ditto.
,, 7	1 Case, P in a triangle, S C D below	Ditto ..	Ditto.
,, 7	2 Casks, 34 in a diamond, P G top	Ditto ...	Ditto.
,, 7	1 Case, 22540 in a triangle	Ditto ...	Ditto.
,, 7	2 Cases, 941 in a diamond, W N & Co. outside ..	Ditto ...	Ditto.
,, 7	2 Cases, 500 in a diamond, W L below	Ditto ...	Ditto.
,, 7	1 Parcel, Messrs. McLeod & Co., 5, Mangoe Lane...	Addressed ...	Ditto.
,, 7	1 Parcel, P S by 4431 in a diamond, B B C F top.	Order ...	Ditto.
,, 7	3 Packages, no mark	Ditto ...	Ditto.
,, 7	1 Bundle flat iron, G G S in a diamond ...	Ditto ...	Ditto.
,, 8	10 Cases, D in a diamond	Ditto ..	S. S. "Rohilla."
,, 11	16 Cases, A R & M O	Ditto ...	Ditto.
,, 11	4 Cases, 426 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,, 11	2 Cases, B by 33 and 34 in a diamond	Ditto ...	Ditto.
,, 11	1 Keg, B C D or no mark	Ditto ...	Ditto.
,, 11	1 Case, B & Co. by 8 in a diamond, U H C outside	Ditto ...	Ditto.
,, 11	1 Case, B & Co. in a triangle	Ditto ...	Ditto.
,, 11	1 Case, Colonel Badcock	Addressed ...	Ditto.
,, 11	1 Package, C & Co. in a diamond	Order ...	Ditto.
,, 11	1 Case, C T C & S by 3966 in a diamond ...	Ditto ...	Ditto.
,, 11	1 Portmanteau, Castleberg	Ditto ...	Ditto.
,, 11	5 Bales, 259 in a diamond	Ditto ...	Ditto.
,, 11	1 Keg, D C	Ditto ...	Ditto.
,, 11	1 Portmanteau, E. E. D. Ezra, Esq	Addressed ...	Ditto.
,, 11	1 Case, H. A. Hawman, Esq., care of Messrs. King & Co.	Ditto ...	Ditto.
,, 11	1 Case, Messrs. A. E. Jessop & Co.	Ditto ...	Ditto.
,, 11	1 Case, 955 in a diamond, G S below	Order ...	Ditto.
,, 11	1 Case, G 393 in a diamond, W below	Ditto ...	Ditto.
,, 11	1 Case, H B & Co. in a diamond	Ditto ...	Ditto.
,, 11	1 Case, L N B N in a block, G A & Co. outside ...	Ditto ...	Ditto.
,, 11	2 Cases L N B N in a diamond, G A & Co. outside	Ditto ...	Ditto.
,, 11	1 Case, M I A G	Ditto ...	Ditto.
,, 11	1 Cask, M B E in a circle	Ditto ...	Ditto.
,, 11	2 Drums, M C K in a diamond	Ditto ...	Ditto.
,, 11	20 Cases, 176 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 11	5 Packages, no mark	Ditto .	Ditto.
,, 11	1 Case, no mark or M	Ditto ...	Ditto.
,, 11	1 Case, N D by 30 in a diamond	Ditto ...	Ditto.
,, 11	1 Case, O P Co., S in a cross, Rangoon below ...	Ditto ...	Ditto.
,, 11	10 Cases, R B M I in a diamond, G A & Co. outside	Ditto ...	Ditto.
,, 11	1 Case, R B M I	Ditto ...	Ditto,
,, 11	1 Case, R & F	Ditto ...	Ditto.
,, 11	1 Case, R in a diamond, Rangoon below ...	Ditto ...	Ditto.

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 11	1 Case, S in a double triangle, K L D S outside ...	Order ...	S. S. "Rohilla."
,, 11	7 Cakes spelter, no mark or L	Ditto ...	Ditto.
,, 11	1 Case, Messrs. O Steel & Co.	Addressed ...	Ditto.
,, 11	2 Cases, 384 in a triangle, S S top	Order ...	Ditto.
,, 11	1 Case, S S by 504 in a block	Ditto ...	Ditto.
,, 11	1 Case, 1367 in a block within a triangle ...	Ditto ...	Ditto.
,, 11	1 Case, 146 by 716 in a diamond, T B & Co. outside	Ditto ...	Ditto.
,, 11	2 Cases, 63 in a block within a triangle ...	Ditto ...	Ditto.
,, 11	5 Cases, 146 by 702 in a diamond, T B & Co. outside	Ditto ...	Ditto.
,, 11	7 Cases, 273 in a diamond, W T H B below ...	Ditto ...	Ditto.
,, 11	1 Case, 17-9 in a diamond	Ditto ...	Ditto.
,, 11	1 Parcel, Messrs. Octavius Steel & Co. ...	Addressed ...	Ditto.
,, 11	1 Case, S S by 565 in a block	Order ...	Ditto.

Port Commrs'. Office, Calcutta, the 18th January 1890. (3458—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 14th January 1890.

LIABILITIES.

	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office ... ... Rs. 83,00,744 8 0			
Ditto ditto at Branches ,, 89,18,761 2 8	1,72,19,505	10	8
Other Deposits at Head Office and Branches	3,16,74,702	10	7
Bank Post Bills, &c.	5,57,700	2	2
Sundries	11,41,328	14	8
Rupees ...	7,63,93,237	6	1

ASSETS.

	Rs.	A.	P.
Government Securities	21,11,518	0	0
Other authorised Investments	73,77,096	0	0
Loans on Government and other authorised Securities	1,61,15,281	3	3
Accounts of credit on ditto ditto	1,03,79,136	7	10
Bills discounted and purchased	2,18,96,433	4	9
Balances with other Banks	10,51,118	1	4
Bullion	4,23,010	12	7
Dead Stock	12,28,021	0	6
Stamps	13,190	2	0
Sundries	4,91,156	12	3
	6,15,85,961	12	6
Cash and Currency Notes at Head Office ... Rs. 48,47,658 13 1			
Cash and Currency Notes at Branches ... ... ,, 99,59,616 12 6	1,48,07,275	9	7
Rupees ...	7,63,93,237	6	1

By order of the Directors,

R. L. BIRD, Chief Acctt. W. D. CRUICKSHANK, Secy. and Treasurer.

BANK OF BENGAL, Calcutta, 16th January 1890. Rate for Demand Loans 9 per cent. Percentage 29·2. (3455—1)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes

For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Notice.

AT a Special Meeting of the Gaya District Board, held on the 9th January 1890, the maximum rate of the road cess for the year 1890-91 has been fixed.

E. J. SHUTTLEWORTH, Secretary, for Chairman.
Gaya District Board's Office, the 9th January 1890.

Withdrawal of Power-of-Attorney.

HARAKALI CHATTERJEA, of Dakhin Baraset, am-mooktar of Rakhaldas Nayaratna and others of Bhatpara, ceases from the 18th January 1890 to be an am-mooktar. All his powers under the Deed registered on the 24th March 1885 are withdrawn.

RAKHALDAS NAYARATNA and others
Bhatpara, the 17th January 1890. (3459—1)

SURVEY OF INDIA DEPARTMENT.

MAP RECORD AND ISSUE OFFICE.

Maps published at the Head-Quarters Offices, Calcutta and Dehra Dun, for the quarter ending 31st December 1889.

Agents for sale of Maps:

CALCUTTA.—No Agent. Maps can be obtained from the Office, 13, Wood Street.
ALLAHABAD.—Curator, Government Books, North-Western Provinces.
NAGPUR.—Curator, Government Books, Central Provinces.
LAHORE.—Munshi Gulab Sing, Government Publishers and Booksellers.
MADRAS.—Messrs. Higginbotham & Co.
POONA.—Supdt., Government Photo-zincographic Dept.
RANGOON.—Supdt., American Baptist Mission Press.
MANDALAY.—The Manager, Mandalay Herald Press.
RAJKOT.—Mr. Narainjee Sunderjee, for maps of Kathiawar only.
AHMEDABAD.—The Huzoor Deputy Collector, for maps of Gujarat only.
LONDON.—Mr. Edward Stanford, 55, Charing Cross.
SIMLA.—Mrs E. Corstorphan, Simla Fancy Repository.

All published maps are sold at the Survey of India Office, Calcutta, for cash prepaid.

Agents cannot issue maps on the *Public Service*.

N.B.—Maps are issued on the Public Service from the Calcutta Office, and their cost, as well as the cost of mounting and packing, adjusted by book-debit. The *cost of postage of parcels must be borne by applicants themselves.* Lists of newly-published maps are periodically notified in the Gazettes of India and of Local Governments.

DESCRIPTION AND NUMBER OF SHEETS.	Scale.	Size of sheet.	PRICE OF MAP UNMOUNTED.		REMARKS.
			Uncoloured.	Coloured.	
PROVINCIAL MAPS.			Rs. A.	Rs. A.	
Preliminary Map of Upper Burma (5th Edition)	1″ = 16M.	34″ × 20″	1 0	2 0	
Punjab (Skeleton), with additions and corrections to November 1889 ...	1″ = 32M.	28″ × 25″	0 12	1 0	
DISTRICT MAPS.					
Hazaribaugh (with additions and corrections to September 1888)	1″ = 4M.	38″ × 27″	2 0	2 4	
Minbu (Preliminary Edition, 1888-89) ...	do.	28″ × 22″	1 8	1 12	
Agra, in 3 sections	1″ = 2M.	32″ × 53″	2 0	2 8	
STANDARD MAPS.					
ASSAM.					
Assam, Sheets Nos. 104, 105, 120 and 121 in one (2nd Edition)	1″ = 2M.	34″ × 20″	1 8	1 12	
LOWER BURMA.					
Sheets Nos. 180 N.E./2 and 227 S.E./2 (2nd Edition)	4″ = 1M.	do.	do.	do.	
UPPER BURMA.					
Sheet No. 1 (Preliminary Edition) ...	1″ = 8M.	do.	do.	do.	
„ No. 2 N.E. (4th Edition)... ...	1″ = 4M.	do.	do.	do.	
CENTRAL PROVINCES.					
Sheets Nos. 17 S.E./2, 18 N.E./3, N.W./4, S.E./4, S.W./2, S.W./4, and 25 S.W./1	4″ = 1M.	42″ × 28″	1 8	1 12	
NORTH-WEST PROVINCES AND OUDH.					
Sheets Nos. 180 (2nd Edition), 192, and 200	1″ = 1M.	34″ × 20″	1 8	1 12	
Sheet No. 185 N.E.	2″ = 1M.	42″ × 28″	do.	do.	

DESCRIPTION AND NUMBER OF SHEETS.	Scale	Size of sheet	PRICE OF MAP UNMOUNTED. Uncoloured	Coloured	REMARKS.
STANDARD MAPS—*concluded.*			Rs. A	Rs. A	
PUNJAB.					
Sheets Nos. 161 N.E./4, S.E./1, 184 N.W./1, N.W./3 & 4, S.W./1 & 2, S.W./3 & 4, 185 N.W./1 & 2, N.W./3, and S.W./1	4″ = 1M.	32″ × 20″	1 8	1 12	
STATISTICAL MAPS.					
India, illustrating the Systems of Railways, corrected to 31st March 1889 ...	1″ = 96M.	31″ × 24″	1 0	2 0	
CHARTS.					
Chart of triangulation of the country adjoining the Chittagong Hill Tracts, Lushai Expedition, 1889 ..	1″ = 4M.	18″ × 17″	0 8	0 8	
Preliminary Charts Nos. 61, 62, and 63 of the Burma Coast (between Cape Negrais and Sandoway, showing the positions of Beacons and other points fixed, Season 1888 89.	1″ = 2M	34″ × 25″	1 0	Nil.	
Levels in the Punjab, Sheet No. 66 (2nd Edition).	do.	42″ × 28″	1 0	1 4	
MISCELLANEOUS.					
Panoramic Profile of the Hill Ranges seen from Landour at (No. 1 H.S.) 7,533 feet above sea level	Nil.	30″ × 20″	Nil	1 8	
Parts of Lushai, Cachar, and Manipur ..	1″ = 8M.	18″ × 11″	0 8	Nil.	
Portion of the Daling Hills, Sheets Nos. 1 to 7.	8″ = 1M.	38″ × 23″	1 0	1 12	

SURVEY OF INDIA DEPARTMENT,
Calcutta, 2nd January 1890.

ST.G. C. GORE, *Major*, R.E.,
Assistant Surveyor-General,
In charge Map Record and Issue Office.

Notification.

TO be peremptorily sold pursuant to a decree and order of the Calcutta High Court in its Extraordinary Original Civil Jurisdiction, made in suit No. 1 of 1881 (wherein Chutterput Sing is plaintiff and Meer Mahomed Cazeem Johury and others are defendants), and dated, respectively, the 15th of August 1887 and the 17th of December 1888, by the Registrar of the said Court, in his sale-room in the Court-house on Saturday, the 8th of March next, at the hour of 12 o'clock at noon, the following properties:—

Lot No. 1.—Putnee lot Nawanankar, aslee with dakhilee, situate in pergunnah Sreepore in zillah Purneah, sub-registration district and thanna Arrareah, the annual sudder jumma of which is Rs. 3,525.

Lot No. 2.—Putnee lot Saifgunge, aslee with dakhilee, situate in pergunnah Havelli, zillah Purneah, sub-registration district Arrareah and thanna Matiari, the annual sudder jumma of which is Rs. 10,300.

Lot No. 3.—Lot Mirzapore, &c., aslee with dakhilee, situate in pergunnah Havelli, zillah Purneah, sub-registration district Arrareah and thanna Ranegunge, the annual sudder jumma of which is Rs. 14,306.

Lot No. 4.—An eight annas share of istemraree talook Ramai, &c., aslee with dakhilee, situate in pergunnah Sultanpore, zillah Purneah, sub-registration district Arrareah and thannas Arrareah and Matiari, the annual sudder jumma of which is Rs. 1,124.

The abstract of title and conditions of sale may be seen at the Office of the Registrar, High Court, Original Jurisdiction, and at the Office of Messrs. Beeby and Rutter, Attorneys for the plaintiff, any day before the sale and will be produced at the sale.

R. BELCHAMBERS, Registrar

Beeby and Rutter, Plaintiff's Attorneys, Calcutta High Court, Original Jurisdiction, the 9th January 1890.

(3453—1)

Destroyed.

THE Government Promissory Note No. 029771 of the 4 per cent. loan of 1879 for Rs. 500, standing in the name of Baboo Sarbessur Mitra, the proprietor, by whom it was never endorsed to any other person Payment of the above note and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for the issue of duplicates in favour of the proprietor after twoyears from date of last advertisement.

SARBESSUR MITRA, Asansol.

(2520—3)

Stolen.

THE Government Promissory Note No. 160426, of the 4 per cent of 1865, for Rs. 1,000, and the Government Promissory Note No. 205964, of the 4 per cent of 1865, for Rs. 1,000, the former originally standing in the name of the Bank of Bengal, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, the proprietor, by whom it was never endorsed to any other person; the latter originally standing in the name of the Comptroller-General, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, by whom it was never endorsed to any other person. Payment of the above Notes, and the interest thereupon, have been stopped at the Public Debt Office, Bank of Bengal, and application is about to be made for the issue of duplicates in favour of the proprietor

SOORENDRA NATH MOOKERJI, Resident of Berjhatty under Serampore, zillah Hooghly, at present residing at Dholy *vid* Dholy P. O., zillah Mozufferpore.

(3425—3)

Lost.

INTEREST Warrants Nos. 229507 and 229506, dated 4th January 1890, for Rs. 20, issued in satisfaction of 49¼ years' interest on Government Promissory Notes, Nos. 238858 and 188252, aggregating Rs. 1,000 of the 4 per cent. loan of 1865 in the names of Russick Lal Dutt and Kheero Monee Dassee respectively.

(3449—3)

WANTED an Assessor of Income-tax for Chumparun district from 1st April 1890. Salary Rs 70 per mensem. Only those need apply who know English and have had some experience of office work.

Applications with copies of testimonials (which will not be returned) will be received by undersigned up to the 26th instant.

A. W. B. POWER, Collector of Chumparun.

Wanted.

A SUB-OVERSEER for the District Board of Noakholly on a salary of Rs. 35 and horse allowance of Rs. 10 per month, to be ordinarily stationed at Sundeep. Passed Sub-Overseers of Public Works Department, with experience of road work, shall have preference Knowledge of surveying and levelling indispensable. Applications will be received by the undersigned up to the 30th January 1890.

BINODE BIHAREE PAL, District Engineer, Noakholly.

Noakholly, the 11th January 1890 (3446—2)

Notice.

WANTED a Second Clerk for the Sub-divisional Office, Nattore, District Rajshahye. Salary Rs 30 rising to Rs. 50 by a biennial increment of Rs. 2. None need apply who does not possess experience in Account Department. Applications with copies of testimonials to be sent to the undersigned before the 10th February 1890.

MOHIM CHANDRA GHOSH, Sub-divisional Officer.

Dated Nattore, the 11th January 1890.

APPLICATIONS are invited for the post of Serishtadar of this Office, which will probably be vacant on 1st February.

The pay is Rs. 120 to Rs. 200, rising by biennial increments. A knowledge of the Kaithi and Urdu character and of English is essential, and no one need apply who has not had at least 15 years' experience of work in a district office.

BEPIN BEHARY MOOKERJI, for Collector.

Bhagulpore Collectorate, the 11th January 1890.

JOGENDRA NATH SEN, M. A., B. L., intends to apply for enrolment as a Vakil of the High Court.

(3444-4.)

Notice.

THE public are hereby informed that a Fair will be held at Falakata, in the sub-division of Alipur, Western Dooars, district Julpigoree. The Fair will commence on 23rd January 1890 (A.D.) corresponding with 11th Magh 1296 (B.S.), and will continue up to 6th February 1890. Tradesmen, dealers, and others may buy and sell there during this time. Blankets, cloth of sorts, ivory, wool, rhinoseri horns, musk, honey, wax, lac, ponies, and various other articles from Bhootan and Thibet, as also rice, paddy, jute, cotton, tobacco, mustard seed, wheat and other crops, which are grown in the Western Dooars, will be available at the Fair. Falakata is on the left or east bank of the Mujnai river, and within easy reach of Julpigoree and Cooch Behar. A good cart and driving road exists all the way.

Tradesmen and others who may attend the Fair will receive every kindness and assistance from the local officers.

DONALD SUNDER, Sub-divisional Officer, Alipur Dooars.

Alipur, the 10th December 1889.

MR. S. S. COOPERS is authorized to sign our firm per procuration from this date.

CROFT, WELLS & Co.

1, Clive Row, 1st January 1890. (3418—3)

Lost.

INTEREST Warrant No. 225465, dated 6th November 1889, for Rs. 200, issued in satisfaction of 49¼ years' interest on Government Promissory Notes Nos. 187095, 188231, B 140933, 251834, 223046, 228904, 282405, 238124 and 194586, aggregating Rs. 10,000 of the 4 per cent. loan of 1865 in the name of H. Hastings.

GILLANDERS, ARBUTHNOT & Co., Calcutta.

January 14th, 1890. (3450—3)

Notification.

A MONUMENT in the Faridpur cemetery, to a child of the name of Rurt, needs repair. The friends of the deceased are therefore requested to inform the undersigned if they are willing to repair it.

PURNO CHANDRA RAI, Dy. Magistrate in charge, for Magistrate.

FARIDPUR MAGISTRATE'S OFFICE, the 3rd January 1890.

Uncovenanted Service Family Pension Fund.

NOTICE.

THE Fifty-second Annual General Meeting of Subscribers of the above Institution will be held in the DALHOUSIE INSTITUTE, on Wednesday, the 29th January 1890, at 4 P.M., to receive the report of the Directors and to consider such matters as may then be submitted.

By order of the Directors,

W. H. RYLAND, Secretary.

Calcutta, the 31st December 1889. (3415—3)

In the matter of the Indian Company's Act, 1882, and in the matter of the Orissa Coasting Steam Navigation Company, Limited, now in course of voluntary liquidation.

BY an order made by the High Court of Judicature at Fort William in Bengal in its Ordinary Original Civil Jurisdiction in the above matter, and dated the 9th day of January 1890, on the petition of Albert Birmingham Miller, the Liquidator of the abovenamed Company, it was *inter alia* ordered that the voluntary winding up of the said Company be continued, but subject to the supervision of the said Court, and any of the proceedings under the said voluntary winding up may be adopted as the said Court should think fit; and it was further ordered that the creditors, contributaries, and the Liquidator of the said Company, and all other persons interested, were to be at liberty to apply to the said Court as there might be occasion.

GREGORY & JONES, Attorneys for the said Albert

(3456—1) Birmingham Miller, Liquidator.

Road Cess Notification.

DISTRICT PUBNA.

IT is hereby notified that under section 38 of the Cess Act, as amended by the second schedule of the Local Self-Government Act III (B.C.) of 1885, the District Board of Pubna have determined that road cess in that district for the cess year 1890-91 shall be levied at the maximum rate, viz., one-half anna on each rupee of the annual value of lands, and of the annual net profits from mines, quarries, tramways, railways and other immoveable property as enumerated in section 6 of the Cess Act.

W. FIDDIAN, Chairman.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act No. III (B.C.) of 1885, the District Board of Shahabad have, by a resolution of their meeting held on the 13th of January 1890, determined to levy road cess for the year 1890-91 at the maximum rate of six pies in the rupee on the annual value of lands, mines, &c.

S. M. NASSIRUDDIN, Vice-Chairman, District Board, Shahabad.

Dated Arrah, the 18th January 1890.

Dinagepore District Board.

SIX PER CENT. LOAN.

THE Dinagepore District Board have resolved, with the permission of the Lieutenant-Governor of Bengal, to borrow Rs. 10,000 (out of two lakhs of rupees) during the current financial year (1889-90) for construction of permanent bridges in their district roads on security of the District Fund formed under Act III (B.C.) of 1885, detailed accounts of which for last two years were published in the *Calcutta Gazette*, Part IB, page 164, dated 7th August 1889.

2. Tenders for the whole or any part of the said amount of Rs. 10,000 will be received by the Vice-Chairman of the Board from this date to Friday, the 31st January 1890. Tenders must be in sums of Rs. 500) or multiples of Rs 500.

3. Each tender must be addressed in the form annexed herewith to the Vice-Chairman, and enclosed in a closed and sealed cover superscribed "Tender for Loan." If the tenderer is not resident in India, he must name an agent resident in India, to whom a letter of allotment may be issued if any part of the loan is allotted to such tenderer.

4. Each tender must be accompanied by deposit money, at a rate of 5 per cent. on the amount tendered, to be sent by postal money-order, and the money-order receipt must be filed with the tender. Deposits will, in the case of accepted tenders, be credited proportionally in part payment of the allotment certificates issued in respect of the tender. If any allotment certificate is not fully taken up, the deposit will be forfeited.

5. The rate at which a tender is made must not contain a fraction of an anna: if a rate containing a fraction of an anna is inserted in any tender, such fraction will be struck out, and the tender treated as if the rate did not contain such fraction of an anna.

6. The rate at which each tender is made must be specified in rupees, or rupees and annas. A tender in which no rate is thus specified, but a subscription is offered in some other terms, *e.g.*, at the recorded minimum, or at some specified percentage in addition to the recorded minimum, or at the average of the accepted tenders, will be rejected as null and void.

7. Tenders will be opened publicly by the Vice-Chairman at the Dinagepore Magistracy on Saturday, the 1st February next, at noon (Calcutta time).

8. Tenders at the minimum rate will be accepted in the order of the rates tendered, beginning with the highest rate. The amount allotted at the lowest rate at which tenders are accepted will be divided amongst those who have tendered at this rate in proportion, as nearly as may be found convenient, to the amounts of their tenders, provided that no allotment will be issued if the amount distributable on any tender is less than Rs. 500.

9. To each tenderer (or to his agent) whose tender is accepted in whole or in part, such number of allotment certificates as may be necessary to make up the aggregate amount allotted to him will be issued by the Vice-Chairman as soon as possible after the tenders have been accepted, and a list of the names of those to whom such allotment certificates are issued will be posted for general information at the District Board's Office.

10. Payment of any allotment certificate is to be made in credit of the District Fund at the Dinagepore Treasury.

Form of Tender

I, A. B., hereby tender for Rs. (Rs.) of the six per cent. loan advertised in the *Calcutta Gazette*, dated , and agree to pay for the same subject to the condition mentioned in the advertisement, at the rate of Rs. As. for every hundred rupees allotted to me.

I enclose a money-order receipt for deposit money for Rs sent to the address of the Vice-Chairman of the Dinagepore District Board.

Any allotment made to me may be communicated to at

NOTE.—A separate tender must be made at each rate tendered. The rate tendered should be the whole amount per centum, not the premium or discount; thus "one hundred and two" or "one hundred," or "ninety-nine," not "two per cent. premium" or "par" or "one per cent. discount."

(3413—3) C. R. MARINDIN, Chairman.

In the Court of the District Judge, Sarun

EXECUTION CASE No. 13 OF 1889.

Lab Tirbhoban Sahai, decree-holder, *versus* Tej Lachhmi Debi, judgment-debtor

NOTICE is hereby given that in the above case the undermentioned properties of the judgment-debtor will be sold by public auction on the 3rd March 1890, in the Court of the District Judge of Sarun, by the Nazir of the Court:—

1. Monzah Turkowlia, tuppa Changwan, appertaining to mehal Ramgir Jamhowli, pergunnah Majhowa, bearing towji No. 729, and sudder jumma Rs. 3,883-8, estimated price Rs. 500, within the jurisdiction of thana Hardi and registry office Bettiah.

2. Mouzah Jamonia, tuppa Changwan, appertaining to mehal Ramgir Jamhowli, pergunnah Majhowa, bearing towji No. 729, estimated price Rs. 500, within the jurisdiction of thana Hardi and registry office Bettiah; sudder jumma Rs. 3,883-8.

H. W. GORDON, District Judge.

(3460—1)

In the Court of Baboo Saroda Prasad Chatterjea, Roy Bahadur, Subordinate Judge of Sarun.

EXECUTION CASE No. 221 OF 1889.

Baboos Moti Chand and Mahadeo Prasad, decree-holders, *versus* Baboo Fatteh Bahadur Singh, judgment-debtor.

TO be sold in the above case, by the Nazir of the District Judge's Court of Sarun, at 12 noon on the 3rd day of February 1890, for the satisfaction of the decree Rs. 17,383-8-3, the following tolahs of Narkatia appertaining to mehal Bhopatpore, tuppeh Bahas, pergunnah Majhowa, bearing towji No. 178, within the jurisdiction of thana Adapore, registration and munsifee Motihari; sudder jumma of entire mehal Rs. 9,736-0-10:—

		Rs.
1.	Sixteen annas of mouzah Narkatia, approximate value	6,000
2.	Sixteen annas of tolah Jamim Char, approximate value	1,000
3.	Sixteen annas of tolah Baikunthwa, approximate value	500
4.	Sixteen annas of tolah Bairia, approximate value ...	500
5.	Sixteen annas of tolah Belwa, approximate value ...	200
6.	Sixteen annas of tolah Belderwa, approximate value	200
7.	Sixteen annas of tolah Barsarpur, approximate value	200
8.	Sixteen annas of tolah Sirisia-kalan, approximate value	200
9.	Sixteen annas of tolah Adra, approximate value	200
10.	Sixteen annas of tolah Aurea, approximate value	200
11.	Sixteen annas of tolah Inderwa, approximate value	200
12.	Sixteen annas of tolah Bhawadri, approximate value	200

(3457—1) SARODA PROSAD CHATTERJEA, Sub-Judge.

Notice.

PATNA DISTRICT.

IT is hereby notified that, under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Patna have, by a resolution passed at a meeting held on the 14th January 1890, determined to levy road cess for the year 1890-91 at the maximum rate, *i e* six pies in the rupee on the annual value of land.

C FAULDER, Chairman, District Board, Patna.

Dated Bankipore the 15th January 1890.

Notification.

IT is hereby notified that under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Dacca have at their Special Meeting, held on the 11th January 1890, determined to levy the road cess in this district for the ensuing financial year 1890-91 at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

L. HARE, Chairman.

Dacca District Board's Office, the 11th January 1890.

LETTERS of Administration (with copy Will annexed) of the property and credits of Edward James Jones, late of Calcutta, Deputy Superintendent of the Geological Survey of India, deceased, have been granted by the High Court, Calcutta, to G. W. F. Buckland, Esq., of No. 1, Esplanade, West, Calcutta, as the Attorney of the Executor named in the Will of the deceased. All persons having claims against the deceased are requested to submit same to the Administrator before the 31st day of March next, after which date no claims will be admitted.

J. A. APCAR, Attorney.

Calcutta, 17th January 1890. (3461—3)

Soom Tea Company, "Limited."

NOTICE is hereby given that the Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Saturday, the 22nd February next, at 10-30 o'clock A M., for the purpose of receiving the Directors' Report, passing the accounts for the year ending 31st December 1889, declaring a dividend and transacting such other business as may be brought before the Meeting.

By order of the Board.

WILLIAMSON, MAGOR & Co., Secretaries.

CALCUTTA, the 21st January 1890. (3462—2)

Notice.

IN THE COURT OF THE SUBORDINATE JUDGE OF MIDNAPUR.

EXECUTION CASE No. 159 OF 1889.

Kartik Chandra Mitra and another, decree-holders, *versus* Sridhar Charan Nandi and others, judgment-debtors.

THE undermentioned properties will be sold by public auction at the Court-house of the District Judge of Midnapur, on Saturday, the 15th February 1890, at 12 o'clock, in execution of the decree passed by the Subordinate Judge of Midnapur for the realization of Rs. 16,256-9-3, obtained by a mortgage decree due from the debtors to the decree-holders:—

Schedule of Property to be sold.

Lot I.—Sixteen annas share of mohal Papan, with its mouzahs, within the police-station of Debaah and sub-registry office of Gopalpur, pergunnah Shahapur, bearing towji No. 1150, present towji No. 1118; Government revenue payable is Rs. 571-1-7.

Lot III.—Eight annas share of mohal Douan, with its mouzahs, within the police-station of Shobang and sub-registry office of Pingla, pergunnah Kedar Kundu, bearing towji No 514, present towji No. 391; Government revenue payable is Rs. 1,135-8-3, and the Government revenue of which eight annas is Rs. 567-12-1½.

DWARKA NATH BHUTTACHARJEE, Sub-Judge.

(3470—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of HERAMBO CHUNDER BOSE, an insolvent.

Notice that an application for an *ad-interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 27th day of January instant, at the hour of half past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

Prannath Paul, Attorney. (3463—1)

In the matter of GREEDHAREE LALL SAD KHAN and another, insolvents.

On Saturday, the 11th day of January instant, it was ordered that the Assignee do pay and divide the sum of Rs. 564-14-6 to and amongst all the creditors upon the estate of the said insolvents as a dividend at the rate of Re. 1-12-0 per cent. upon such of the debts as are admitted in the schedule of the said insolvents, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto.

A. B. Miller, Official Assignee. (3464—1)

In the matter of GEORGE COLE and another, insolvents.

On Saturday, the 11th day of January instant, it was ordered that the Assignee do pay and divide the sum of Rs. 226-14-1 to and amongst all the creditors upon the estate of the said insolvents as a dividend at the rate of Rs. 2-2-0 per cent. upon such of the debts as are admitted in the schedule of the said insolvents, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto.

A. B. Miller, Official Assignee. (3465—1)

In the matter of CARAPIET MARTYROSE ARATHOON, an insolvent.

On Saturday, the 11th day of January instant, an account of the receipts and disbursements of the Official Assignee, from the 10th day of January 1889 to the 31st day of December last, was filed in the Office of the Chief Clerk, and it was ordered that Saturday, the 1st day of February next, be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B. Miller, Official Assignee. (3466—1)

In the matter of RAMBUX RATTEE, an insolvent.

On Saturday, the 11th day of January instant, it was ordered that the Assignee do pay and divide the sum of Rs. 3,204-5-4 to and amongst all the creditors upon the estate of the said insolvent as a dividend at the rate of Rs. 20 per cent. upon such of the debts as are admitted in the schedule of the said insolvent, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto.

A. B. Miller, Official Assignee. (3467-1)

In the matter of EDWARD JOAKIM GRACIES, an insolvent

On Saturday, the 11th day of January instant, an account of the receipts and disbursements of the Official Assignee, from the 7th day of September last to the 31st day of December last, was filed in the Office of the Chief Clerk, and it was ordered that Saturday, the 1st day of February next, be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B. Miller, Official Assignee. (3468—1,)

In the matter of POORUN MULL and another, insolvents.

On Saturday, the 21st day of December last, it was on the petition of Ram Bux, Ram Chand, and Golap Chand, creditors of the said insolvents, adjudged that the said insolvents have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

H. C. Chick, Attorney. (3469—2)

Chief Clerk's Office, the 21st January 1890.

Insolvency Notice.

NOTICE is hereby given that the undermentioned dividend is lying unclaimed—

Estate JOHN THOMSON HORNETT, *an Insolvent.*

No.	NAME OF CREDITOR.	Amount of claim.	1st Dividend at Rs. 50 per cent.
6	L. Gomez	Rs. A. P. 156 0 0	Rs. A. P. 78 0 0

Estate MANUK THEODORE MANUK, *2nd Insolvency, an Insolvent.*

			1st Dividend at Rs. 16 per cent.
6	D. J. Bagram	Rs. A. P. 730 8 5	Rs A. P. 116 14 3

Estate CONSTANTINE DEMENEXIS, *an Insolvent.*

			1st Dividend at Rs. 15 per cent.
4	T. E. Thomson and Co.	Rs. A. P. 574 1 3	Rs. A. P. 86 1 9

(3454—1) A. B. MILLER, Official Assignee.

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	28th Jan.	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	27th ,, ...	Ditto.
Mauritius, Mahé (Seychelles), Mayotte, Nossi Be and Réunion.	28th ,, ...	Ditto.
Zanzibar, Mozambique, Delagoa Bay, Natal and Cape Colonies.	28th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	27th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	27th ,, ...	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	23rd ,, ...	Per French steamer *Niemen*.
Straits, China and Japan ...	23rd ,, ...	Per str. *Japan*.
Rangoon and Moulmein ...	28th ,, ...	Ditto *Chanda*
Ditto ditto ...	24th ,, ...	Ditto *Nuddea*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	22nd ,, ...	Ditto *Coconada*.
Port Blair . ..	29th ,, ...	*Vid Madras*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	29th ,, ...	Per st. *Pachumba*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 21st January 1890.

Unclaimed Letters held in the Calcutta General Post Office on 21st January 1890.

Dickson, Mrs. E.
Frank, G.
Procton, T. E.

Letters marked Care of "Post Office."

Atkinson, F. S.
Barker, F. W.
Bather, H. R.
Baxter, Mrs.
Belitski, R
Berkeley, C. M.
Boland, J.
Bolton, J. M. L.
Brown, W.
Burrows, C. J.
Carrapaett, Mr.
Charles, R.
Chatterton, J.
Comar, Mrs. A.
Cooper, H. J.
Cooper, W.
Courage, R.
Courtney, F. S.
Culbard, Mrs. C.
Davis, Mrs. G.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Duclero, G. P.
Dunlo, Viscount.
Dymond, G. F.
Elliott, K.
Filleid, Rev. S. E. V.
Fisk, F M.
Flaherty, O. H.
Fletcher, Neil.
Forshaw, H.
Fraiser, H. C.
Francis, A. M.
Franzini, Madame A.
Gellett, Cecil S.
Glover, W. E.
Godwin, George.
Gow, J. F.
Greve, E. C.
Green, W. W.
Hamilton, J. R.
Hardy, Mrs. M.
Hawksworth, Mrs.
Heming, Lt.-Col. D.
Henderson, W. H.
Hewett, A. B.
Hilton, R. W.
Horus, Miss M. L.
Jackson, T.
Johannesson, O. C.
Jones, R. H. W.
Keane, J. J.
Keith, Surgeon-Major J. F.
Kleine, Henri.
Lach, R.
Lamb, E. G.
Lambertini, Miss.
Langer, J. O.
Lerco, R.
Levinge, Sir William.
Livermore, H. A.
Lindeman, L. K.
Livewright, R.
Lloyd, Willis.
Long, W.
Lyons, G. B. C.
Major, A.
Mackenzie, J.
MacBrayne, L.
Manual, A. M.
Matthews, J. R.
Mathewson, F.
McAdoo, Mr.
McKenzie, Mrs. D.
McNair, Miss.
McSmith, D.
Menzies, C.
Meyer, A. T.
Morshead, L.
Murling, T. J. R.
Murphy, John.
Newby, C. R. A.
Ogden, J.
O'Mealy, Capt. D'Oyly.
Papamarco, M. & Co.
Patry, Mrs.
Platts, Mrs. S. K.
Powell, F.
Prenter, Miss.
Rawlings, E.
Rennard, J. R.
Ricket, Mrs.
Robart, P.
Rogerson, Miss A.
Roskell, Richard.
Rubie, Phil C.
Sano, T.
Sevestre, J.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Skinner, R. H.
Smith, D. M.
Smith, M. O.
Soares, F. H.
Stebbing, Capt. Arthur.
Sutton, H. C.
Sweet, L.
Taylor, C.
Thomas, G. T.
Thompson and Co.
Thompson, G.
Uphill, T.
Ursite, Johan.
Valentyne, W. K. H.
Waddell, Alex.
Walter, F.
Walter, Amherst.
Webster, Mrs.
Westmacott, H. H.
Williamson, C.
Woodhouse, G.

Registered Letters.

Edwards, C.
Guiseppe, Celestini.
Hogens, Charles.
Keith, Mrs. C.
MacBrayne, L.
MacLeod, D. J.
Marsland, W.
Menzies, C.
Smith, M. Oswald.
Westmacott, F. H.
Zucker, Moses.

Unclaimed Letters held in the Barrackpore Post Office on the 20th January 1890.

Cook, F. L.
Cotton, Mrs.
Coulter, A.
Duff, G. G. K.
Ferguson, W.
Lindsay, W. C,
Mathuson, J.
Parker, C. F.
Peter, H.
Robertson, Jas.
Sells, J. H.
Simpson, Dr. R. J.
Thompson, Jas.
Thomson, T. K.
Wardell, Miss.
Wheeler, Sergeant.

E. HUTTON,
Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 17th January 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	1 6	At mouth entrance practically closed.
	Thence to Nurpur	1 3	Dhopipara.
	From Nurpur to Jungipur	2 0	Nurpore.
	,, Jungipur to Berhampur	1 3	Patanpara.
	,, Berhampur to Cutwa ..	2 0	Horinathpore.
	,, Cutwa to Nuddea ..	2 3	Patooly.
Bhyrub-Jelinghi.	Entrance from Ganges	7 6	
	Thence to Akriganj ...	6 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 6	Junction.
	Thence to Patkabari	6 0	Patkabari.
	Patkabari to Nuddea	3 9	Punditpore.
Matabanga.	Entrance from Ganges ...	2 3	
	Thence to Chuypara .	1 2	Sircarpara.
	From Chuypara to Shikarpur	0 9	Pragpore.
	,, Shikarpur to Boalia ..	1 0	Shampore.
	,, Boalia to Chuadanga ..	2 6	Sialmari.
	,, Chuadanga to Hussenganj and Hanskhali ..	2 6	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet.	Feet.	
Ganges.	Sahebganj ...	18-1-90	6	0 42	67 58	Below zero.
	Rampore Boalia	18-1-90	12	1·58	43 58	
	Entrance of Bhagirati	18-1-90	7	2·85	46·16	
	Entrance of Bhyrub-Jelinghi .	18-1-90	...	7 62	45·93	
	Entrance of Matabanga	18-1-90		1·76		
Bhagirati...	Berhampur ...	20-1-90	12	2 88	36·67	
Jelinghi ...	Kishnaghur ...	17-1-90		4·46	13·35	
	Saroopgunge ...	18-1-90	6	3 54	7·04	
Matabanga	Hanskhali ...	17-1-90	...	3 08	13 93	

C. E. LIVESAY, C.E.
Exe. Engr., Nuddea Rivers Division.

Berhampore, the 20th January 1890.

List of Books for Sale

AT THE

LIBRARY OF THE ASIATIC SOCIETY OF BENGAL.

No. 57, PARK STREET, CALCUTTA,

AND OBTAINABLE FROM

THE SOCIETY'S LONDON AGENTS, MESSRS. TRUBNER & CO

57 AND 59, LUDGATE HILL, LONDON, E.C

BIBLIOTHECA INDICA

Sanskrit Series.

	Rs. A.
Advaita Brahma Siddhi, fasc. I—II @ /6/ each	0 12
Agni Purana (Sans.), fasc II—XIV @ /6/ each	4 14
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Aphorisms of the Vedanta (Sans.), fasc. III, V—XIII @ /6/ each	3 12
Ashṭasâhsrikâ Prajñâpâramitâ, fasc I—VI @ /6/ each	2 4
Asvalayana Grihya Sutra, fasc. II—IV @ /6/ ...	1 2
Asvavaidyaka, fasc I—V @ /6/ each ...	1 14
Avadâna Kalpalata by Kshemendra (Sans and Tibetan) Vol. I, fasc. I	1 0
Bhâmatî (Sans.), fasc. I—VIII @ /6/ each ...	3 0
Brahma Sûtra (Eng.), fasc. I	0 12
Brihaddharma Puráṇam, fasc. I	0 6
Brihat Aranyaka Upanishad (Sans.), fasc. VI, VII and IX @ /6/ each.	1 2
Ditto (Eng.), fasc. II—III @ /6/ each	0 12
Brihat Samhitâ (Sans.), fasc. I—III, V—VII @ /6/ each	1 14
Chaitanya-Chandrodaya Nâtaka (Sans.), fasc. II—III @ /6/ each	0 12
Chaturvarga Chintamani (Sans.), Vols. I, fasc 1—11; II, 1—25; III, Part I, fasc. 1—18, Part II, fasc. 1—2, @ /6/ each	21 0
Chhándogya Upanishad (Eng.), fasc. II ...	0 6
Dasarupa, fasc. II and III @ /6/	0 12
Gobhilîya Grihya Sûtra (Sans.), fasc. I—XII @ /6/ each	4 8
Hindu Astronomy (Eng.), fasc. I—III @ /6/ each	1 2
Kâlamâdhaba (Sans.), fasc. I and IV @ /6/ each	1 8
Kâtantra (Sans.), fasc. I—VI @ /12/ each ...	4 8
Katha Sarit Sâgara (Eng.), fasc. I—XIV @ /12/ each	10 8
Kaushitaki Brahman Upanishads, fasc II ...	0 6
Kûrma Purana (Sans.), fasc. I—VIII @ /19 each	3 0
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The 24th February 1886.

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PART VI.

Bills introduced into the Council of the Governor General for making Laws and Regulations, or published under Rule 22.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Bill was introduced into the Council of the Governor General of India for the purpose of making Laws and Regulations on the 16th January, 1890:—

No. 2 of 1890.

A Bill for the Prevention of Cruelty to Animals.

WHEREAS it is expedient to make further provision for the prevention of cruelty to animals; It is hereby enacted as follows:—

Title, extent and commencement, and supersession of other enactments.

1. (*1*) This Act may be called the Prevention of Cruelty to Animals Act, 1890.

[Act I, 1878, s. 1.]

(*2*) This section extends to the whole of British India: the rest of this Act shall extend to such local areas as the Local Government, by notification in the official Gazette, directs, and shall come into force in each of those areas on such day as that Government, by such a notification, appoints.

[Cf. Act XII, 1886, s. 24.]

(*3*) When this Act has been extended to a local area under this section, the Local Government may direct that the whole or any part of any other enactment in force in the local area for the prevention of cruelty to animals shall, except as regards anything done or any offence committed or any fine or penalty incurred or any proceedings commenced, cease to have effect in that area, and such whole or part shall cease to have effect accordingly until the Local Government otherwise directs.

[Act I, 1868, s. 6.]

Definitions.

2. In this Act, unless there is something repugnant in the subject or context,—

[Ben. Act I, 1869, s. 1.]

(*1*) "animal" includes a bird: and

[Act XIII, 1884, s. 2]

(*2*) "street" includes any way, road, lane, square, court, alley, passage or open space, whether a thoroughfare or not, to which the public have access, and includes also the road-way and foot-way over any public bridge or causeway.

Penalty for cruelty to animals in public places and for sale in such places of animals killed with unnecessary cruelty.

3. (*1*) If any person in any street or in any other place, whether open or closed, to which the public have access, or within sight of any person in any street or in any such other place,—

[Ben. Act I, 1869, s. 2: and Canadian 43 Vict., c. 38, s. 2.]

(*a*) cruelly and unnecessarily beats, overdrives, overloads or otherwise ill-treats any animal, or

[Canadian 43 Vict., c. 38, s. 2, and English 12 & 13 Vict., c. 92, s. 12.]

(*b*) binds or carries any animal in such a manner or position as to subject the animal to unnecessary pain or suffering, or

(*c*) offers, exposes, or has in his possession, for sale any live animal which is suffering pain by reason of mutilation, starvation or other ill-treatment, or any dead animal which has been killed in an unnecessarily cruel manner,

he shall be punished with fine which may extend to one hundred rupees, or with imprisonment for a term which may extend to six months, or with both.

[12 & 13 Vict., c. 92, s. 18.]

[Ben. Act III, 1869, s. 1: and 12 & 13 Vict., c. 92, s. 13. Cf. Act X, 1882, s. 57.]

(*2*) Subject to any rules which the Local Government may make in this behalf, a police-officer may arrest without warrant any person who in his presence commits or is accused of having committed an offence against sub-section (*1*).

Penalty for killing animals with unnecessary cruelty anywhere.

4. If any person kills any animal in an unnecessarily cruel manner, he shall be punished with fine which may extend to one hundred rupees, or with imprisonment for

[Cf. s 3 (*1*) (*c*).]

a term which may extend to six months, or with both.

[Ben. Act I, 1869, s. 5.]

Penalty for employing anywhere animals unfit for labour.

5. If any person employs in any work or labour any animal which by reason of any disease, infirmity, wound or sore is unfit to be so employed, he shall be punished with fine which may extend to one hundred rupees.

[Ben. Act I, 1869, s. 4.]

Penalty for permitting diseased animals to go at large or to die in public places.

6. If any person wilfully permits any animal of which he is the owner to go at large in any street while the animal is affected with contagious or infectious disease, or without reasonable excuse permits any diseased or disabled animal of which he is the owner to die in any street, he shall be punished with fine which may extend to fifty rupees.

[Act X, 1882, s. 98, and 39 & 40 Vict. c. 77, s. 13.]

Search-warrants.

7. (*1*) If a District Magistrate, Subdivisional Magistrate, Presidency Magistrate or Magistrate of the first class, upon information and after such inquiry as he thinks necessary, has reason to believe that an offence against section 4 or section 5 is being or has been committed, he may by his warrant authorise any police-officer above the rank of a constable to enter and search any place specified in the warrant and to seize any animal, alive or dead, in respect of which such police-officer has reason to believe that the offence is being or has been committed.

(*2*) The provisions of the Code of Criminal Procedure, 1882, relating to searches under that Code shall, so far as those provisions can be made applicable, apply to a search in pursuance of a warrant issued under sub-section (*1*). X of 1882.

[Canadian 32 & 33 Vi c. 27, s. 6, a English 12 13 Vict., c. s. 14.]

Limitation for prosecutions.

8. A prosecution for an offence against this Act shall not be instituted after the expiration of three months from the date of the commission of the offence.

STATEMENT OF OBJECTS AND REASONS.

IN different parts of British India there are more than twenty enactments in force relating to cruelty to animals, but the local extent of most of these enactments is very limited, while the necessity imposed by others of proving cruelty to an animal to have caused obstruction, inconvenience, annoyance, risk, danger or damage to the public renders it very difficult to maintain a prosecution.

The object of the present Bill is to provide an easily enforceable law which may be applied by any Local Government to any part of the territories under its administration, either in addition to, or to the exclusion of, any other enactment in force in such part for the suppression of cruelty to animals.

The 15th January, 1890.

PHIL. P. HUTCHINS.

S. HARVEY JAMES,
Secretary to the Government of India.

[REGISTERED No. 29.]

No. 4 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JANUARY 22, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 18th January, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Divn. 1	Burdwan Jan. 18, '90	Nil	Weather—rather warm. Harvesting of *amun* over. Prospects of *rubbi* not good everywhere. Prospects of potato and sugarcane good. Prices of common rice :— Burdwan ... . Srs. 15½ ; Culna ... ... 16 ; Cutwa ... ... 15½ ; Raneegunge ... . 19 } per rupee.
2	Bankoora „ 18, '90	Nil	Weather seasonable. Threshing of *amun* rice going on. *Rubbi* prospects good. Pressing of sugarcane commenced in the Bishenpore subdivision; outturn nearly average. Common rice 21 seers per rupee at Sudder and 18 seers at Bishenpore
3	Birbhum „ 18, '90	Nil	Prospects of crops excellent. Price of rice 16½ seers per rupee at Soory and 18 seers at Rampore Hât.
4	Midnapur „ 18, '90	Nil	Weather—seasonable. Rice harvest in the Sudder subdivision completed with 12 annas outturn, but still going on in Contai and Tamluk. Prices of rice :— Sudder ... ... Srs. 16 ; Contai ... ... 24 (new) ; Tamluk ... ... 18 ; Ghatal ... . 18 } per rupee.
5	Hooghly „ 18, '90	Nil	Weather—cold in the morning, but close at other times. Harvesting of *amun* paddy completed. *Rubbi* very hopeful. Prices of common rice :— Sudder ... ... Srs. 12 Ch. 0 ; Jehanabad ... ... 18 7 } per rupee.
	Howrah „ 18, '90	Nil	Weather—warm for the season. State and prospects of crops good. *Amun* is still being harvested. Prices of common rice :— Howrah ... ... Srs. 12½ ; Uluberya ... . 15½ } per rupee.
	Central Districts.		
Presidency Divn. 6	24-Perghs. Jan. 18, '90	Nil	Weather—good and seasonable, but sometimes foggy. The force of winter is gradually fading. Harvesting of *amun* crop nearly completed except on low lands. Outturn nearly 16 annas. Winter crops doing well. Price of common rice 15 to 16 seers a rupee.
7	Nuddea „ 18, '90	Nil	Weather—seasonable. Prospects of winter crops on the whole fair. *Kalai* and *mung* are being harvested.
8	Khoolna „ 18, '90	Nil	Weather—seasonable. *Amun* harvest still progressing; outturn good. Winter crops doing well.
9	Jessore „ 18, '90	Nil	Weather—cool and foggy. *Amun* harvest coming to a close. Winter crops doing fairly well. Prices of rice stationary.
10	Moorshedabad „ 17, '90	Nil	Weather—fine and cold with passing clouds. Wind generally north-west. *Amun* harvesting nearly over. *Rubbi* promises well.
Rajshahye Divn. 11	Dinagepur „ 18, '90	Nil	Weather—cloudy during early part of week. Fogs continue Rice prospects favourable The mustard crop in the subdivision is expected to be very poor. Harvesting and pressing of sugarcane continue.
12	Rajshahye „ 18, '90	Nil	Weather—seasonable. Harvesting of *amun* crop still continues with a good outturn. Nowgong reports a bumper crop. *Rubbi* crops are tolerable. Ganja promising well at Nowgong. Rice sells at 16 seers 10 chittacks per rupee.
13	Rungpur „ 18, '90	Nil	Weather—seasonable. Sugarcane is still being cut with good results. Mustard is ripe in some places. Land is being prepared for *aus* and jute sowings.
14	Bogra „ 18, '90	Nil	Weather—nights cold, days hot, and mornings foggy. One-eighth of the whole *amun* crop still remains to be reaped. Other crops are in a fairly good state and are being reaped. Price of common rice 22 seers a rupee at head-quarters.
15	Pubna „ 18, '90	Nil	Weather—seasonable. *Amun* below average in the Sudder subdivision: it is still being reaped. Sugarcane deficient. Mustard expected to be a 12-anna crop. Cold-weather crops doing well.
16	Darjeeling „ 18, '90	Nil	Weather—very cold and foggy. Wheat and barley are progressing favourably; other winter crops are doing well.
17	Julpigoree „ 18, '90	Nil	Weather—cold and fair. Cutting of *haimanti* paddy almost completed; outturn good. No change in prices.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn.			
18	Dacca Jan. 18, '90	Nil	Weather—seasonable. Sowing of *boro* paddy continues. Winter crops doing well. *Mung, maskalai* and mustard are being gathered. Fodder is available. No special change in the prices of food-grains. Common rice sold at from 14 to 17 seers 12 chittacks per rupee.
19	Furreedpur „ 18, '90	Nil	Weather—seasonable. Mornings foggy. Prospects of *rubbi* crops fair. Outturn of sugarcane and date-tree juice not satisfactory. Ordinary rice selling at 15¼ seers per rupee in Sudder, 17 seers in Goalundo, and 15 seers in Maduripore.
20	Backergunge „ 18, '90	Nil	Weather—cool with foggy mornings. Prospects of crops good. Harvesting of *amun* nearly completed. Common (new) rice is selling at 16 seers a rupee.
21	Mymensingh „ 18, '90	Nil	Weather—mornings foggy, but cold and clear in the days. Harvesting of *amun* paddy nearly over. Mustard seeds are being gathered. *Rubbi* crops in good condition. *Boro dhan* is being transplanted. Common rice is selling at 12 seers 13 chittacks per rupee.
Chittagong Divn.			
22	Chittagong „ 18, '90	Nil	Weather—seasonable. Outturn of *amun* fourteen annas. Prospects of winter crops good.
23	Noakholly „ 18, '90	Nil	Weather—seasonable. Harvesting of *amun* completed; outturn reported to be 16 annas, and in Chagulnaya police-station 12 annas. *Rubbi* crops doing well.
24	Tipperah „ 18, '90	Nil	Weather—seasonable. Winter crops thriving well. *Boro* paddy is being transplanted.
25	Chittagong Hill Tracts. „ 17, '90	Nil	Weather—very cold. Foggy up to 10 a.m. in the morning. Tobacco, mustard, and chillies progressing. Outturn of cotton crop only four annas.
	Hill Tipperah Jan. 18, '90	Nil	Weather—rather a little warm for the season. Harvesting of *amun* paddy nearly over. Mustard is being gathered. Tobacco and chillies doing well.
BEHAR.			
Patna Divn.			
26	Patna „ 18, '90	Nil	Weather—cold. *Rubbi* crops progressing well, but rain is wanted. Mustard promising. Prospects of poppy favourable. Prices of food-grains almost stationary.
27	Gya „ 18, '90	Nil	Weather—seasonable. Harvesting of paddy continues. *Rubbi* and poppy doing well, but rain is wanted in some places. Food-stocks sufficient.
28	Shahabad „ 18, '90	Nil	Weather—inclined to be cloudy and uncertain. Prospects of all *rubbi* crops and poppy remain excellent. A little rain might do good. Prices stationary.
29	Durbhunga „ 18, '90	Nil	Weather—mornings foggy and occasionally cloudy. Rain has seemed probable for the last two days. Prospects of *rubbi* continue favourable, but rain would be of immense good to the crop. Poppy is reported to be good, but caterpillars have appeared in some places. Tobacco is approaching maturity: probably an average crop. Fields are being prepared for indigo. Price of common rice ranges from 19½ to 21 seers per rupee.
30	Mozufferpur „ 18, '90	Nil	Weather—slightly cloudy during the week. All standing crops doing very well. Mustard very promising. Poppy slightly damaged by caterpillars, but prospects continue good in Sudder. Hajipur poppy report not received.
31	Sarun „ 18, '90	Nil	Weather—cold and clear, and occasionally cloudy *Rubbi* crops are doing well. Prospects of poppy continue good. Sugarcane pressing is in full swing.
32	Chumparun „ 18, '90	Nil	Weather—cold. *Rubbi* growing well and promising a good harvest. Early sowings of poppy in blossom. Clouds keep hovering about now and then. A slight rainfall would do good to both the crops.
Bhagulpore Divn.			
33	Monghyr „ 18, '90	Nil	Weather—seasonable. *Rubbi* crops progressing. Poppy doing well.
34	Bhagulpur „ 18, '90	Nil	Weather—too warm for the season. Late rice harvest over; outturn in the two northern subdivisions, after allowing for loss from floods, is estimated at 14 annas, and in the southern subdivision 11 annas. Area under wheat about up to average, but the crop wants rain, and prospects of other *rubbi* crops are going off also.
35	Purneah „ 18, '90	Nil	Weather—not cold enough for the time of the year. *Aghani* rice harvested; a good average crop. Tobacco prospects on the whole good; in some places want of rain has affected the crop. *Rubbi* crops doing well.
36	Maldah „ 18, '90	Nil	Weather—rather hot for the season. Harvesting of winter rice nearly over; outturn is expected to average about 12 annas. *Kalai* and mustard are being reaped and threshed. Transplantation of *boro* begun. Wheat thriving and coming into ear. Other standing crops doing well. Common rice selling at an average of 16¾ seers per rupee.
37	Sonthal Perghs. „ 18, '90	Nil	Weather—bright and cool. Rice harvest may be considered over; outturn almost average. *Rubbi* crops doing well.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38 Cuttack	Jan. 18, '90	Nil	Weather—seasonable. Reaping of *guru sarad* and early *rubbi* continues.
	39 Pooree	„ 17, '90	Nil	Weather—seasonable. Harvesting of the winter crop (late *sarad*) still continues. *Mung* is being sown, and other miscellaneous crops of the season are doing well. Prices of common rice stationary.
	40 Balasore	„ 18, '90	Nil	Weather—seasonable. Rice harvest now over. *Rubbi* yields an outturn of about 11 annas.
CHOTA NAGPORE.				
	South-West Frontier Agency.			
Chota Nagpore Divn.	41 Hazaribagh	Jan. 18, '90	Nil	Weather—seasonable. Prospects of crops generally good. Poppy crop in prime condition.
	42 Lohardugga	„ 18, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops good, but some rain is wanted.
	43 Singbhoom	„ 18, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops favourable. Sugarcane outturn full.
	44 Manbhoom	„ 18, '90	Nil	Weather—seasonable. *Rubbi* crops doing well, but rain is wanted.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 21st January, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

...e following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of October, 1889.

IMPORTS INTO CALCUTTA.

...ence imported.	FOOD-GRAINS. Rice and Paddy. Rice.	* Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	FIBROUS PRODUCTS. Jute, raw.	Gunny bags.†	OILSEEDS. Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR. Refined.	Unrefined.	TOBACCO. Unmanufactured.	Manufactured.
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
...rdwan ...	72,017	41,759	98,116	2,202	9,086	36	1,09,440	272	10,115	6,229	714	144	......	17	......	......	21	1
...rbhoom ...	43,003	6,848	47,283	......	......	19	47,302	......	7,175	......	293	......	......	723	......	......	...	......
...lnapore ...	1,17,562	4,938	1,20,648	......	......	......	1,20,648	1,711	1,750	1,380	......	......	13	290	...	125	172	......
...oghly ...	34,163	22,014	47,921	5,731	12,490	713	66,864	53,761	56,790	10,307	5,932	......	228	120	392	8,240	5,929	765
...Pergunnahs ...	74,901	24,168	90,006	......	......	......	90,006	1,14,538	57,545	8	......	......	746	......	2,857	9,940	2,514	319
...ddea ...	1,188	......	1,188	4,594	41,679	653	48,114	1,08,263	1,385	3,448	......	......	187	102	......	......	2,268	......
...ulna ...	1,700	7,650	6,481	......	90	......	6,571	74,781	......	......	......	......	......	......	......	3,100	...	......
...sore ...	2,203	950	2,857	......	1,458	......	4,315	53,172	569	134	1,250	......	23	......	440	5,501	1,735	......
...rshedabad ...	2,195	......	2,195	5,978	16,661	71	24,905	4,786	......	416	470	......	......	919	......	......	...	......
...agopore ...	7,418	......	7,418	......	200	......	7,618	12,186	159,075	......	81	......	......	......	......	15	...	......
...shahye ...	......	......	......	1,159	4,119	232	5,510	50,686	......	439	......	......	......	621	......	......	21	......
...ngpore ...	8	......	8	1,006	......	......	1,014	1,71,759	29,475	......	142	......	6	9	......	......	22,311	......
...ra ...	438	......	438	......	......	......	438	6,029	......	......	......	......	......	......	......	......	...	......
...na ...	......	......	......	......	170	......	170	4,43,096	617,845	2,705	6,540	......	......	......	......	......	1,003	......
...jeeling ...	......	......	......	......	144	......	144	10,402	108,395	......	......	21,425	......	......	......	......	...	......
...pigoree ...	......	......	......	......	......	......	......	71,614	153,335	......	......	23,069	......	......	......	......	323	......
...cca ...	225	......	225	......	610	......	835	7,80,531	1,975	......	3,249	......	437	......	......	......	...	......
...reedpore ...	554	......	554	104	3,112	212	3,982	6,63,663	......	......	1,715	72	......	48	......	......	656	......
...ckergunge ...	1,61,620	50	1,61,652	......	......	......	1,61,652	11,080	......	......	......	......	......	......	......	......	150	......
...mensingh ...	......	......	......	......	740	......	740	70,481	......	......	1,903	......	......	......	......	......	...	......
...perah ...	8,125	......	8,125	......	......	......	8,125	6,400	......	......	......	......	......	......	......	......	...	......
...ttagong ...	950	......	950	......	......	......	350	1,851	......	......	......	3,036	1,009	......	......	......	...	......
...akholly ...	22,089	......	22,089	......	......	......	22,089	2,957	......	......	......	......	600	......	......	......	...	......
...tal of Bengal ...	5,50,419	1,08,377	6,18,154	20,774	90,568	1,936	7,31,432	27,14,019	1,196,420	25,066	22,288	47,746	3,209	2,858	3,689	26,930	37,103	1,085
BEHAR.																		
...tna ...	......	......	......	1,124	26,117	2,561	29,802	......	1,120	63,776	23,201	......	9	2	270	2,433	247	1,106
...a ...	......	......	......	1	......	......	1	......	735	......	......	......	3	......	......	360	...	113
...hhabad ...	2	......	2	3,376	11,401	1	14,780	......	1,120	12,170	1,111	1	......	......	......	3,437	...	20
...zufferpore ...	324	......	324	......	825	295	1,444	......	70	396	938	......	1	......	......	......	25	......
...rbhunga ...	......	......	......	1,100	5,755	968	7,823	......	105	42,740	13,205	......	52	......	......	170	659	14
...un ...	......	......	......	951	2,564	......	3,515	......	430	28,5[illegible]9	3,367	......	32	......	......	128	119	......
...mparun ...	......	......	......	......	......	......	......	......	280	21,881	3,971	......	......	......	......	251	...	......
...ghyr ...	......	......	......	2,541	14,852	441	17,834	......	2,240	3,082	4,026	......	145	......	......	......	8	3
...gulpore ...	......	......	......	13,198	13,338	6,291	32,827	333	16,300	11,585	16,015	......	......	3	......	......	180	......
...rneah ...	60	......	60	4,310	7,168	......	11,538	11,140	1,120	5,714	14,372	......	......	......	......	......	5,795	......
...ldah ...	151	......	151	4,569	5,185	1,327	11,233	9,526	......	1,112	649	......	......	......	......	......	13	......
...thal Pergunnahs.	336	......	336	10,688	3,297	2,067	16,388	1,239	1,015	4,773	3,692	......	......	180	......	......	...	......
...otal of Behar ...	873	......	873	41,858	90,502	13,951	1,47,184	22,238	24,535	1,93,738	84,547	1	242	185	270	6,779	6,996	1,346
ORISSA.																		
...asore ...	13,671	3,864	16,086	......	2,563	253	18,902	1,806	3,550	1,851	242	......	......	......	......	......	23	......
...OTA NAGPORE.																		
...zaribagh ...	......	......	......	......	63	......	63	......	1,960	......	99	350	......	......	......	......	...	......
...nbhoom ...	635	......	635	......	......	......	635	......	280	......	......	......	......	......	......	......	...	......
...al of Chota Nagpore.	635	......	635	......	63	......	698	......	2,240	......	99	350	......	......	......	......	...	......
...and Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	5,65,598	1,12,241	6,35,748	62,632	1,83,696	16,140	8,98,216	27,38,063	1,226,745	2,20,655	1,07,176	48,097	3,451	3,043	3,959	33,709	44,122	2,431
...HER PROVINCES.																		
...sam ...	143	100	205	......	700	......	905	4,370	......	......	58,204	1,48,537	36	355	......	......	...	......
...rth-Western Provinces and Oudh.	......	......	......	84,205	62,530	5,195	1,51,930	......	1,015	97,447	11,080	475	24,087	4	2,714	633	...	12
...njab ...	14	......	14	39,324	29,799	7,514	76,651	......	35	......	28	1,330	437	......	......	......	1	......
...tral Provinces	......	......	......	804	1,313	......	2,117	......	......	688	......	......	......	13	......	......	...	......
...jputana and Central India ...	......	......	......	......	......	15	15	......	245	......	......	......	......	......	......	1	...	......
...mbay ...	......	......	......	......	......	......	......	......	......	......	......	......	4,730	......	......	......	...	11
...dras ...	4	......	4	......	4,693	......	4,697	......	......	......	......	......	2,115	......	2,040	......	99	133
...ndicherry ...	......	......	......	......	......	......	...	......	......	......	......	......	......	......	......	......	...	7
...rmah ...		......	2	......	1,112	743	1,858	......	......	......	......	......	652	......	......	......	...	19
...her places ...	5	......	5	......	20	998	1,028	......	1,700	14	......	......	1	......	27,282	22,898	1	413
...and Total of Imports in Oct. 1889	5,65,767	1,12,341	6,35,979	1,86,965	2,83,863	30,605	11,37,412	27,42,442	1,229,740	3,18,804	1,76,488	1,98,339	35,509	3,415	35,995	57,241	44,223	3,026
1888	14,10,588	1,31,198	14,92,587	2,94,839	3,34,390	27,985	21,49,810	36,31,305	2,583,324	5,66,218	1,18,149	1,60,642	29,159	3,077	60,532	53,678	11,889	23,393

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of October, 1889, *was as follows :—*

...RTED FROM ...LCUTTA—																		
...dian ports,—																		
...mbay ...	32,912	......	32,912	......	566	......	33,478	......	912,450	......	15,351	534	......	......	1,116	......	...	4
...dras ...	......	......	......	......	14,141	......	14,141	......	204,550	......	......	10	......	368	131	......	8	......
...her ports in Madras ...	15,840	52	15,882	16	661	......	16,559	15,609	107,650	......	200	1	......	18	79	......	...	3
...rmah ...	3,454	......	3,454	543	3,939	1,722	9,658	70	30,400	......	......	57	165	6	414	1,002	16,554	152
...her Indian ports ...	1,056	...	1,056	206	1,960	......	3,222	1	......	......	......	2	......	5	1,138	274	1,662	13
...ndicherry ...	......	......	......	250	......	......	250	......	26,500	......	......	......	......	......	...	......	...	......
...l of Intercoastal trade ...	53,271	52	53,304	1,015	21,207	1,722	77,308	15,680	1,281,550	......	15,551	604	165	397	2,878	1,276	18,221	173
...oreign ports— ...nited Kingdom	45,032	......	45,032	73,391	12,285	......	1,31,608	10,52,607	1,615,225	2,01,994	44,907	1,79,754	1,918	71	38	5	...	1
...her Foreign ports ...	2,13,822	2,487	2,15,097	12,253	8,804	7,444	2,43,598	6,38,025	11,879,425	2,50,650	16,415	3,166	10,528	1,301	......	......	186	41
...l of Foreign trade ...	2,59,754	2,487	2,61,029	85,644	21,089	7,444	3,75,206	16,90,632	13,494,650	4,52,644	61,322	1,82,920	12,446	1,372	38	5	186	42
...nd Total of Exports in Oct. 1889	3,13,025	2,539	3,14,333	86,659	42,356	9,166	4,52,514	17,06,312	14,776,200	4,52,644	76,873	1,83,524	12,611	1,769	2,916	1,281	18,407	214
1888	12,66,576	14,491	12,75,633	3,18,862	1,25,996	12,727	17,33,218	18,91,909	13,270,085	7,56,486	2,780	1,63,993	5,593	1,647	2,601	409	23,045	536

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of October, 1889.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	3,01,685	46,643	37,923	1,07,972	8,042	5,70,815	103,040	62,843	62,271	.....	2,291	306	4,796	21,892	14,023	1,381
,, river steamers ...	19,762	426	2,975	5,778	.....	5,73,785	.....	26,677	57,616	1,45,250	238	444	.....	.....	135	.....
,, rail { East Indian Railway.	1,09,786	59,789	1,45,577	1,45,212	20,509	99,973	30,100	2,25,733	53,499	2,200	24,439	1,607	968	7,413	697	232
,, rail { Eastern Bengal State Railway.	2,101	.....	400	16,518	.....	14,19,964	1,061,550	1,041	2,890	47,853	307	1,038	440	3,865	25,560	.....
,, road	29,315	1,669	.....	.....	... ..	83,243	30,000	.....	.....	.....	27	.....	449	1,173	3,667	998
,, sea	18,135	3,864	.....	8,388	1,994	3,057	4,150	1,365	243	3,036	8,207	.....	29,822	22,898	129	535
Grand total of Imports in October ... { 1889 ...	5,65,707	1,12,341	1,86,965	2,83,863	30,605	27,42,443	1,229,740	3,18,804	1,76,468	1,98,339	35,509	3,415	35,995	57,241	44,229	3,026
1888 ...	14,10,588	1,31,198	2,94,839	3,34,399	27,065	36,31,305	2,585,324	5,00,218	1,18,149	1,00,642	20,159	3,077	60,532	53,678	11,839	23,362

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of October, 1889.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	1,63,580	6,710	441	1,230	24,249	78,309
Beerbhoom ...	58,580	5,280	43	763	15,738	55,543
Midnapore ...	1,81,217	..	2,515	.....	23,115	13,439
Hooghly ...	79,83	1,870	859	4,091	1,377	63,410
24-Pergunnahs ...	91,923	3,159	483	190	10,478	4,240
Nuddea ...	2,65,144	.. ..	2,167	.....	15,994	16,863
Khulna ...	25,707	.....	69	.....	5,425	.. ...
Jessore ...	98,712	.....	779	.....	17,120	1,015
Moorshedabad ...	42,751	.....	143	.....	7,546	7,689
Dinagepore ...	1,29,024	... ..	253	.....	2,908	4,515
hajshahye ...	2,04,561	.....	65	.....	12,433	11,905
Rungpore ...	3,51,804	...	261	.....	7,910	3,045
Bogra ...	1,76,052	...	73	.....	4,140	935
Pubna ...	2,19,555	.....	608	.....	17,065	900
Darjeeling ...	62,622	.....	205	.....	7,432	560
Julpigoree ...	1,38,346	... ..	131	.....	3,911	.....
Dacca ...	8,06,211	.....	1,057	560	31,613	12,635
Furreedpore ...	2,53,170	.....	3 90	.....	23,080	4,410
Backergunge ...	2,87,091	.....	1,998	.....	30,850	2,750
Mymensingh ...	1,47,420	.....	13	.....	16,930	.....
Tipperah ...	.....	.....	.....	.....	6,685	.....
Chittagong ...	1,07,250	4,140	81	.....	.....	20,950
Noakholly ...	.....	.....	.....	.....	2,400	.....
Total of Bengal...	30,18,973	21,159	13,495	6,749	2,85,798	313,161
BEHAR.						
Patna ...	5,12,854	550	256	92	28,903	80,585
Gya ...	1,09,833	2,640	33	1,248	9,432	23,240
Shahabad ...	4,79,430	1,580	21	581	10,239	12,215
Mozufferpore ...	2,90,808	.....	12	68	9,085	8,155
Durbhunga ...	6,52,365	.....	.....	597	47,195	36,040
Sarun ...	4,25,376	.....	12	58	21,083	36,260
Chumparun ...	5,27,121	1,540	20	131	19,916	17,255
Monghyr ...	1,96,497	.....	12	574	10,108	18,890
Bhagulpore ...	2,68,254	11,550	144	544	19,300	43,875
Purneah ...	2,04,183	550	386	971	11,422	9,563
Maldah ...	.....	.....	.....	.....	4,010	... ..
Sonthal Pergunnahs ...	1,80,432	.....	95	1,149	22,843	24,570
Total of Behar ...	39,26,853	18,810	993	6,013	2,18,866	305,298
ORISSA.						
Cuttack ...	20,280	.....	97	... ..	.....	.....
Balasore ...	4,88,950	6	4,801	.....	14,148	33,600
Total of Orissa ...	5,09,230	6	4,898	.....	14,148	33,600

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags
	Euro-pean.	Indian.	Euro-pean.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds	No.
CHOTA NAGPORE.						
Hazaribagh	37,233	4,400	1	258	6,014	2,275
Manbhoom	1,12,266	13,640	45	1,980	9,623	840
Total of Chota Nagpore ...	1,49,499	18,040	46	2,238	15,637	3,115
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ...	85,64,564	58,015	19,372	15,000	5,34,440	637,174
OTHER PROVINCES.						
Assam	5,14,017	.....	1,322	679	32,770	.....
North-Western Provinces and Oudh	35,07,993	30,360	3,069	813	28,570	224,385
Punjab	10,87,541	3,964	1,018	18	.....	480,165
Central Provinces	30,114	1,760	109	.....	.....	4,680
Rajputana and Central India	75,852	770	215	1	.....	25,375
Berar	804	110	.....	.....	.....	... ..
Bombay	630	6,461	.....	.....	.....	912,835
Madras	55,500	4,800	1,045	276	.....	512,900
Pondicherry	750	.. ..	... ...	.....	.....	20,500
Burmah	2,35,300	18,710	406	2,492	.....	30,600
Other places	7,023	5,550	10	4,172	.....	13,495,650
Grand Total of Exports in Oct. ... { 1889 ..	1,47,09,828	1,25,246	26,586	23,481	5,95,798	16,106,514
1888 ...	1,26,41,485	63,370	25,904	13,504	6,33,798	14,873,638

The Sea-borne Trade of Calcutta in these Staples during the month of October 1889, *was as follows:—*

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	1,08,80,042	.....	1,126	.....	4,05,391	.....
Other Foreign ports ...	40,899	.....	597	.....	1,62,702	1,700
Total of Foreign Trade ...	1,09,20,941	.....	1,723	.....	6,28,153	1,700
From Indian Ports—						
Bombay	8,581	3,87,515	20	8,382	44,220	.....
Madras	400	13,505	.....	180	.....	.....
Other ports in Madras ..	.....	.....	.....	.....	40	.....
Burmah	5,184	415	10	15	.....	.....
Other Indian ports ...	.....	400	.....	10	.....	2,450
Total of Interportal Trade ...	13,965	4,01,835	30	8,587	44,260	2,450
Grand Total of Imports in Oct. ... { 1889 ..	1,09,43,906	4,01,835	1,753	8,587	6,72,413	4,150
1888 ...	1,20,84,337	1,92,190	14,319	8,578	6,25,190	20,700

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported fro Calcutta during the month of October, 1889.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,48,410	.....	3,119	3,985	2,20,068	87,085
,, river steamers	6,88,338	.....	2,517	7,245	13,404	28,654
,, rail ... { East Indian Railway	97,34,097	89,850	5,045	11,215	3,01,693	1,160,390
,, rail ... { Eastern Bengal State Railway	31,01,175	... ..	9,115	.....	43,540	53,025
,, road	1,26,808	3,189	440	96	3,045	4,010
,, sea	9,10,400	32,457	6,430	6,940	13,144	14,838,380
Grand Total of Exports in October ... { 1889 ...	1,47,09,828	1,25,246	26,586	23,481	5,95,798	16,106,514
1888 ...	1,26,41,485	63,370	25,904	13,504	6,33,798	14,873,638

STATISTICAL DEPARTMENT,
The 18th January, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH JANUARY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	13 8	14 8	13 4	No sale.			New 15 0	12 0	16 8	New 16 5	15 12	18 12	...	...	...
2	Bankoora ...	14 8	14 8	12 4	14 0	14 0	14 8	17 0	15 0	16 4	21 0	19 0	20 8		...	...
3	Beerbhoom* ...	...	15 8	11 0	...	...	...	...	12 0	12 0	...	15 0	16 0	...	...	...
4	Midnapore ...	13 0	13 0	13 5	...	...	...	12 8 / New 14 0	12 8	14 0	16 8 / New 18 8	17 0	20 0	...	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	12 0	12 0	13 0	...	...	...
	Howrah ...	...	...	...	...	...	...	9 8	9 8	12 0	14 0	14 0	17 12	...	...	...
	Central Districts.															
	Calcutta ...	13 6	13 4	12 13	16 9	16 10	16 0	8 11	8 10	9 13	13 8	13 8	14 11	19 4	17 8	17 12
6	24-Pergunnahs	14 8	13 0	12 8	16 0	16 0	16 0	9 0	7 8	8 0	16 8	16 0	16 0	...	...	...
7	Nuddea ...	15 0	15 0	14 0	17 12	17 12	22 14	10 10½	10 10½	12 5	13 4	12 7	17 10	...	...	...
8	Khoolna ...	...		...		...		New 14 0	Old 11 8	16 0	16 0	16 0	18 0	...	...	...
9	Jessore ...	13 5	13 5	11 12	...	...		9 0	9 0	13 4	16 0	16 0	17 0	...		...
10	Moorshedabad	16 0	16 0	13 8	...	...	...	15 8	12 0	13 8	17 0	15 8	18 0	...	...	...
11	Dinagepore	17 4	17 8	12 0	16 0	14 8	12 0	15 8	15 8	16 0	19 0	19 0	19 3	...	...	...
12	Rajshahye ...	15 0	15 12	16 8	18 12	19 8	26 4	13 8	13 8	15 0	15 12	15 12	16 8	...	...	...
13	Rungpore ...	14 8	13 5	12 4	...	...	...	9 6	10 0	10 8	14 8	13 5	16 0	...	...	...
14	Bogra ...	Best. 13 5 / Common. 16 8	12 0 / 15 12	9 15	...	...	...	12 0	12 0	13 8	19 8	18 12	18 12	...	...	...
15	Pubna ...	13 8	12 0	15 0	...	...	...	7 4	7 8	8 0	15 14	16 8	17 4	...	...	...
16	Darjeeling ...	10 0	11 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	12 0	12 0	12 0	...	...	...
17	Julpigoree ...	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	17 0	16 0	19 0	...	...	...
	Eastern Districts.															
18	Dacca* ...	...	13 0	15 0	...	16 0	20 0	...	13 0	16 0	...	16 0	18 0	...	...	...
19	Furreedpore ...	12 0	12 0	8 0	12 0	12 0	18 0	10 0	11 0	10 0	14 0	15 0	16 0	...	...	...
20	Backergunge ...	...	...	...	...	...	...	13 5	14 4	13 5	16 0	16 0	15 9	...	...	...
21	Mymensingh ...	10 0	10 0	8 12	...	...	...	10 0	9 0	12 0	12 12	14 0	20 0	...	...	...

* Present return not received.

A In subdivisions retail prices of salt per rupee are :—C[illegible] ... 10 seers 6 chittacks, and Ranaghat 10 seers.

B In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghattal 10½ seers.

C In subdivisions retail prices of salt per rupee are :—Serampore 10 seers and Jehanabad 10 seers.

C1 In subdivisions retail prices of salt per rupee are :—Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum Dum 10 seers.

D In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Muhorpore 10½ seers, Choosdanga 9 seers, and Ranaghat 9 seers 2 chittacks.

E In subdivisions retail prices of salt per rupee are :—Bagirhat 8 seers and Satkhira 9 seers.

F In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th January 1890.

WHOLESALE PRICES PER MAUND OF 40 SEERS.			AVERAGE WAGES PER MONTH.									
SALT.			SALT.			ABLE-BODIED AGRICULTURAL LABOURER.			SYCE OR HORSE-KEEPER.			COMMON MASON, CARPENTER, OR BLACKSMITH.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S Ch	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
10 A 0	10 2	10 7½	3 12 0	3 12 0	3 11 3	8 0	8 0	8 0	6 0	6 0	6 8	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	7 0 to 10 0	7 0 to 12 0	6 0 to 10 0	5 0 to 8 0	6 0 to 9 0	5 0 to 8 0	7 8 to 16 0	9 0 to 16 0	8 0 to 15 0	Bankoora.
...	10 8	10 0	...	3 10 0	3 13 0	6 0	5 0	5 0	6 0	6 0	6 0	7 8 to 10 0	13 8	12 0	Beerbhoom.
10 B 3	10 3	10 4	3 15 0	3 15 0	3 14 0	6 1	7 8	6 0	6 0	6 0	5 0	7 4 to 10 0	7 8 to 10 0	7 8 to 12 4	Midnapore.
9 C 0	9 0	9 0	3 11 6	3 11 6	4 6 0	9 13½	9 13½	9 13½	6 0	6 0 to 7 0	5 0 to 6 0	8 0 to 30 0	10 0 to 30 0	8 0 to 30 0	Hooghly.
9 2	9 2	10 8	3 13 0	3 14 0	3 9	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	7 0	7 0	7 0	12 0 to 25 0	12 0 to 25 0	12 0 to 25 0	Howrah.
						(Agri. labourers)						(Common mason).			*Central Districts.*
10 0	10 0	10 5	3 11 6	3 11 11	3 10 0	5 0 Coolies. 8 0	5 0 8 0	5 0 8 0	6 0	6 0	6 0	15 0	15 0	15 0	Calcutta.
10 Cl 1	10 0	10 0	3 9 6	3 9 6	3 10 0	10 0 to 11 0	10 0 to 11 0	9 0 to 10 0	6 0 to 7 0	6 0 to 7 0	6 0	15 0 to 25 0	15 0 to 25 0	15 0 to 22 0	24-Pergunnahs
9 D 2	9 2	9 2	3 14 0	3 14 0	3 14 0	7 8	6 0	6 0	6 0	6 0	6 0	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	Nuddea.
9 E 0	8 0	10 0	4 4 0	4 4 0	3 14 0	7 8 to 9 6	7 8 to 9 6	7 8 to 9 6	7 0 to 8 0	7 0 to 8 0	7 0 to 8 0	12 0 to 25 0	12 0 to 30 0	15 0 to 30 0	Khoolna.
9 F 2	9 2	10 0	4 0 0	4 0 0	4 0 0	5 0 to 7 8	5 0 to 7 8	5 0 to 7 8	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Jessore.
10 G 12	10 12	10 8	3 12 0	3 12 0	3 12 0	5 10 to 7 8	7 8	6 1	5 0	5 0	5 0	5 0 to 20 0	7 8 to 10 0	5 0 to 16 0	Moorshedabad.
9 H 8	9 8	9 8	4 0 0	4 0 0	4 0 0	7 8	7 8	7 8	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
9 I 9	9 0	9 9	4 2 8	4 4 0	4 0 0	4 0 to 6 0	4 0 to 6 0	5 0 to 6 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	8 0 to 16 0	8 0 to 16 0	8 0 to 16 0	Rajshahye.
J 8 14	8 8	10 0	4 8 0	4 8 0	...	7 8	5 0	7 8	6 0	6 0	6 0 to 7 0	10 0 to 15 0	8 0 to 20 0	12 0 to 15 0	Rungpore.
9 0	8 13	9 0	4 2 8	4 2 8	4 5 4	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	5 0 to 7 0	5 0 to 7 0	5 0 to 7 8	10 0 to 20 0	10 0 to 20 0	12 0 to 22 0	Bogra.
K 8 11½	8 11½	9 10	4 0 0	4 0 0	3 15 0	5 0 to 6 8	5 0 to 6 8	5 0 to 7 0	6 0 to 8 0	6 0 to 8 0	6 0 to 10 0	7 0 to 20 0	7 0 to 20 0	8 0 to 20 0	Pubna.
L 7 0	8 0	8 0	5 0 0	5 0 0	5 0 0	6 0	7 0 to 8 0	6 0	8 0 to 9 0	7 0 to 9 0	7 8 to 9 0	12 0 to 25 0	12 0 to 22 0	12 0 to 22 0	Darjeeling.
M 9 0	9 0	9 0	4 2 0	4 2 0	4 4 0	7 8	7 8	7 8	9 0	9 0	9 0	15 0 to 20 0	15 0 to 20 0	20 0	Julpigoree
															Eastern Districts.
...	9 4	9 2	...	4 4 0	4 4 0	6 0 to 10 0	6 0 to 10 0	6 0 to 8 0	7 0 to 12 0	7 0 to 12 0	8 0 to 15 0	10 0 to 20 0	8 0 to 20 0	8 6 to 20 0	Dacca.
9 0	9 0	10 0	4 4 0	4 4 0	4 0 0	10 0	7 8	7 8	10 0	7 0	8 0	15 0	15 0	10 0 to 15 0	Furreedpore
N 10 10	10 0	10 10	3 14 0	4 0 0	3 12 0	7 8	9 8	7 8	6 0	6 0	6 0	10 0 to 15 0	12 0 to 15 0	10 0 to 15 0	Backergunge.
O 9 0	9 0	9 10	4 6 0	4 6 0	4 2 0	7 8 to 9 0	7 8 to 9 0	7 0 to 10 0	6 0 to 7 0	6 0 to 7 0	6 0 to 7 0	12 0 to 30 0	12 0 to 30 0	12 0 to 30 0	Mymensingh.

G In subdivisions retail prices of salt per rupee are :—Lalbagh 10 seers, Jungipore 10 seers, and Kandi 10¼ and 10½ seers.
H In Thakurgaon subdivision retail price of salt 8 seers per rupee.
I In subdivisions retail prices of salt per rupee are :—Nattore 9 seers and Nowgong 8 seers 11 chittacks.
J In subdivisions retail prices of salt per rupee are :—Nilphamari 9 seers, Gaibanda 8 seers.
K At Serajgunge retail price of salt 10 seers per rupee.
L At Siliguri retail price of salt 8 seers per rupee.
M At Fallacutta in Alipore subdivision retail price of salt 8 seers per rupee.
N In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
O In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	RICE, BEST SORT. Present return.	RICE, BEST SORT. Next preceding return.	RICE, BEST SORT. Corresponding return of last year.	RICE, COMMON. Present return.	RICE, COMMON. Next preceding return.	RICE, COMMON. Corresponding return of last year.	JOWAR OR CHOLUM. (*Sorghum Vulgare.*) Present return.	JOWAR OR CHOLUM. Next preceding return.	JOWAR OR CHOLUM. Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong*	...	11 0	11 0	...	...	...	...	8 0	12 0	.	16 0	16 8		...	...
23	Noakholly* ...	...	...	...	.	...	..	...	15 0	18 0 Chaplash.	...	17 0	20 0	...	...	...
24	Tipperah ..	11 7	10 7	12 8				Gobindabhag. 10 0	10 0	16 0	16 0	16 0	20 0		..	...
25	Chittagong Hill Tracts	.	...	.	...	.		10 0	0 0	11 6½	11 6	11 6	13 5½	...	..	...
	Hill Tipperah...	6 0	6 0	6 0	...	..		8 0	8 0	9 0	14 0	16 0	18 0	...	...	...
	BEHAR.															
26	Patna ...	17 6 Red. / 15 8 White.	17 4 / 15 8	... / 16 0	24 0	24 0	20 8	10 8	10 8	11 0	18 0	18 0	15 8	22 0	22 0	21 0
27	Gya ...	16 8	16 8	13 8	23 0	20 0	16 0	10 0	10 0	9 8	17 0	17 0	15 8	...	...	...
28	Shahabad ...	16 0	16 0	14 8	22 0	22 0	18 0	9 8	9 0	10 0	17 0	17 0	15 4	21 0	21 0	18 8
29	Durbhunga ...	15 6	17 0	15 4	20 12	19 0	17 8	17 9	14 8	1) 8	20 4	19 8	13 8	...	...	...
30	Mozufferpore	14 0	14 0	12 0	20 0	20 0	18 0	12 0	10 0	9 0	18 0	18 0	12 0	...	...	...
31	Sarun ...	16 0	16 4	15 0	20 0	22 0	20 8	8 8	8 8	8 8	15 8	15 10	13 10	...	...	...
32	Chumparun ...	13 0	13 0	13 0	...	20 0	2) 0	9 0	9 0	7 8	18 8	18 0	13 0	..	...	...
33	Monghyr ...	18 10	17 5	14 11	21 0	21 0	...	13 2	12 1	12 9	16 13	16 4	15 4	...	...	...
34	Bhagulpore ...	14 11	16 6	15 2	20 8	20 8	12 10	12 0	12 0	11 c	17 10	17 11	Old. 15 2 / New. 16 6	...	...	...
35	Purneah ...	20 0	20 0	13 0	...	...	...	18 0	17 0	16 0	19 0	19 0	17 0	...	...	...
36	Maldah ...	18 0	18 0	13 8	...	...	.	12 0	9 0	12 8	17 0	16 0	17 5	...	...	...
37	Sonthal Pergns.	13 4	14 0	11 8	...	...	..	12 0	12 0	12 8	17 0	18 0	18 0	...	...	...
	ORISSA.															
38	Cuttack ...	11 13	13 2	11 13	...	.	...	10 8	10 8	11 13	19 11†	19 11	19 11	...	...	...
39	Pooree ...	11 13	13 2	11 13	...	...	...	15 12	14 7	13 2	22 10	22 10	21 0	...	...	...
40	Balasore ...	15 0	15 0	12 0	18 0	18 0	18 0	13 0	12 0	12 0	19 0	16 0	22 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 0	14 0	12 0	12 0	12 0	9 0	10 0	10 0	8 0	18 0	20 0	15 0	...	...	...
42	Lohardugga ...	12 8	Red. 11 12	10 8	13 0	12 0	...	17 0	18 0	12 0	Ordinary. 19 8 / Coarse 22 0	22 0 / 22	16 0	...	...	...
43	Singbhoom ...	10 0	10 0	10 0	20 0	20 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...
44	Manbhoom ...	13 5	13 5	11 14	...	...	...	15 0	13 0	12 8	22 0	22 0	21 0	...	...	...

* Present return not received.
† Common rice at Jajpore 23 seers 10 chittacks per rupee, and at Kondrapara 26 seers 4 chittacks.
P In subdivisions retail prices of salt per rupee are:—Sasseram 10½ seers, Buxar 10 seers, and Bhabuah 9½ seers.
Q In subdivisions retail prices of salt per rupee are:—Tajpore 11 seers and Madhubani 10 seers.
R In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.
S At Bettiah retail price of salt 9½ seers per rupee.

CALCUTTA,
The 21st January, 1890.

Station Bazars of the Districts of Bengal on the 15th January 1890—(concluded).

Salt.			WHOLESALE PRICES PER MAUND OF 40 SEERS.			AVERAGE WAGES PER MONTH.									DISTRICTS.
			Salt.			Able-bodied Agricultural Labourer.			Syce or Horse-keeper.			Common Mason, Carpenter, or Blacksmith.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	Rs. A. P	Rs. A. P.	Rs. A. P	Rs. A.	Rs. A.	Rs. A.	Rs. A	Rs. A	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
...	9 0	9 0	...	4 0 0	4 4 0	10 8	8 0	8 0	8 0	8 0	8 0	9 8 to 12 0	9 4 to 12 0	9 0 to 11 0	Chittagong.
..	9 0	8 0	...	4 0 0	4 8 0	7 0 to 10 0	6 0 to 10 0	7 0 to 10 0	5 0 to 7 0	5 0 to 6 0	5 0 to 7 0	8 0 to 16 0	8 0 to 14 0	7 0 to 20 0	Noakholly.
8 14	8 14	8 0	4 8 0	4 8 0	4 6 0	7 0 to 10 0	7 0 to 10 0	10 0	7 0 to 8 0	7 0 to 8 0	8 0	8 0 to 15 0	8 0 to 15 0	12 0 to 15 0	Tipperah.
8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	...	...	...	...	...	...	...	...	...	Chittagong Hill Tracts.
8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	8 0	8 0	8 0	6 0	6 0	6 0	15 0	15 0	15 0	Hill Tipperah.
															BEHAR.
10 0	9 8	10 0	3 14 0	3 14 0	3 13 3	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	4 8 to 5 0	4 8 to 5 0	4 8 to 5 0	7 0 to 8 0	7 0 to 8 0	6 0 to 8 0	Patna.
9 2	9 2	9 8	4 2 0	4 2 0	4 0 0	2 8 to 3 0	2 8 to 3 0	2 8 to 3 0	3 0 to 5 0	3 0 to 5 0	3 0 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	Gya.
P 10 0	10 0	10 0	3 15 0	3 15 0	4 0 0	5 0	5 0	5 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	Shahabad.
Q 10 0	10 0	11 0	3 12 0	3 12 0	3 10 3	3 12 to 5 8	3 12 to 5 0	2 12 to 5 0	3 0 to 5 0	3 0 to 5 0	3 0 to 5 0	3 12 to 9 0	3 12 to 9 8	3 12 to 9 8	Durbhunga.
R 10 0	10 0	10 0	3 12 0	4 0 0	3 12 0	3 12	3 0 to 5 0	3 0 to 5 0	3 0 to 4 0	4 0 to 5 0	4 0 to 5 0	7 8 to 9 6	5 0 to 8 0	5 0 to 8 0	Mozufferpore.
9 8	9 8	10 0	4 2 0	4 2 0	3 14 6	3 12 to 7 8	3 12 to 7 8	3 12 to 7 8	4 0 to 7 0	4 0 to 7 0	4 0 to 7 0	8 9 to 10 0	6 9 to 10 0	8 9 to 10 0	Sarun.
S 9 8	9 8	9 0	4 2 0	4 2 0	4 0 0	2 13 to 3 12	2 13 to 3 12	2 13 to 3 12	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	5 1 to 9 6	5 10 to 9 6	5 10 to 9 6	Chumparun.
T 9 11	9 11	9 8	4 0 0	3 14 6	4 0 0	5 10	4 0 to 5 0	5 10	3 0 to 4 0	3 0 to 5 0	3 0 to 4 0	6 0 to 8 0	5 0 to 12 0	6 0 to 8 0	Monghyr.
10 1	10 1	10 1	3 15 6	3 15 6	4 0 0	3 12 to 4 11	3 12 to 5 10	3 12 to 5 10	4 0 to 5 0	3 8 to 5 0	3 0 to 5 0	7 8 to 11 4	7 8 to 11 4	6 9 to 11 4	Bhagulpore.
U 9 8	10 0	9 0	4 3 4	4 0 0	4 5 0	5 10 to 6 9	4 11 to 5 10	4 11 to 5 10	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	7 0 to 10 0	7 0 to 10 0	7 0 to 10 0	Purneah.
9 0	9 0	9 8	4 0 0	4 4 0	4 0 0	7 8	7 8	7 8	5 0	5 0 to 0 0	5 0	8 0 to 12 0	10 0 to 15 0	8 0 to 10 0	Maldah.
9 0	9 4	9 0	4 2 0	4 0 0	4 4 0	3 12	3 12	3 12	5 0	5 0		7 8 to 9 6	7 8 to 9 6	7 8 to 9 6	Sonthal Perghs.
															ORISSA.
11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	5 0	5 0	5 10	4 8	4 8	4 0	6 0 to 7 8	6 0 to 7 8	7 8 to 10 0	Cuttack.
11 13	11 13	11 13	3 6 0	3 6 0	3 6 0	7 0 to 7 8	6 0	6 0	5 0	5 0	5 0	8 0 to 10 0	8 0 to 10 0	8 0 to 10 0	Pooree.
V 10 0	9 8	9 12	3 14 0	3 15 0	3 13 6	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	7 0 to 10 0	7 0 to 10 0	7 8 to 12 3	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency
8 0	8 0	8 0	4 6 0	4 5 0	4 8 0	4 3½	3 12	3 12	4 0 to 5 0	5 0	4 0 to 5	7 8	8 0	7 8	Hazaribagh.
W 4 8	8	8	4 9 0	4 0 6	4 9 0	3 4½ to 3 12	3 4½ to 3 12	3 4½ to 3 12	3 8 to 6 0	3 8 to 6 0	3 0 to 4 8	4 11 to 14 1	4 11 to 14 1	6 0 to 12 0	Lohardugga.
7 0	7 0	7 0	5 8 0	5 8 0	5 8	...	...	...	...	...	...	...	...	...	Singbhoom.
X 9 2	9 2	9 0	4 2 6	4 2 6	4 3 6	4 11	4 11	4 11	5 0	5 0	5 0	13 2 to 15 0	13 2 to 15 0	3 2 to 15 0	Manbhoom.

T In subdivisions retail prices of salt per rupee are:—Begusarai 9½ seers and Jamui 9 seers.
U At Kishengunge retail price of salt 8 seers per rupee.
V At Bhudruck retail price of salt 9 seers per rupee.
W In Palamow subdivision retail price of salt 8·43 seers per rupee.
X At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 8	2 12 2	2 13 10	2 2 7	2 2 6	2 4 3	4 5 9	4 6 5	3 14 4	2 11 5	2 11 4	2 7 8
2	Serajgunge ...	2 0 0	2 4 0	2 4 0	...	...	...	5 4 0	5 8 0	3 8 0	2 10 0	2 12 0	2 6 0
3	Dacca* ...	...	3 0 0	2 10 0	...	2 7 0	2 0 0	...	3 0 0	2 7 0	...	2 7 0	2 4 0
4	Naraingunge*	...	...	...	...	...	...	...	3 0 0	2 6 0	...	2 12 0	2 4 0
5	Chittagong*...	..	3 8 0	3 9 0	...	...	...	...	4 8 0	3 4 0	...	2 8 0	2 7 0
6	Patna ...	Red. 2 4 6 / White. 2 8 0	Red. 2 4 6 / White. 2 9 0	... / 2 7 0	1 10 0	1 10 0	1 14 6	3 12 0	3 12 0	3 8 0	2 3 0	2 2 6	2 7 0
7	Balasore ...	2 8 0	2 8 0	3 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	2 0 0	2 4 0	1 10 0
8	Pooree ...	...	..	...	...	..	..	...	...	...	1 15 0	1 15 0	1 14 0
9	Cuttack ...	3 4 0	3 0 0	3 4 0	...	..	...	3 0 0	3 0 0	3 4 0	2 0 0	2 0 0	2 0 0

* Present returns not received.

CALCUTTA,
The 21st January, 1890.

in the undermentioned Marts of Bengal on the 15th January 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CADJAN I'EA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R A P.	R. A. P.	R A P	R. A. P	R A P	R. A. P	R. A. P	R A. P.	R. A. P	R. A. P.	
2 3 5	2 3 10	2 6 10	1 14 7	1 15 1	2 0 0	2 2 9	2 2 11	2 3 1	0 5 6	0 5 6	0 6 0	3 11 6	3 11 11	3 10 0	Calcutta.
2 8 0	3 0 0	3 4 0	...	...	...	...	...	...	...	...	...	4 0 0	4 2 0	3 10 0	Serajgunge
...	3 0 0	3 0 0	...	...	...	...	2 12 0	2 8 0	...	0 4 0	0 5 0	...	4 4 0	4 4 0	Dacca.
...	3 0 0	3 0 0	...	...	...	...	3 4 0	3 2 0	..	0 8 0	0 10 0	...	4 0 0	3 12 0	Naraingunge
...	3 0 0	3 4 0	...	...	...	...	...	...	...	0 7 0	0 5 3	...	4 0 0	4 4 0	Chittagong.
1 11 6	1 12 0	2 1 0	1 11 6	1 12 0	1 14 6	1 14 0	1 14 0	1 12 0	0 5 0	0 5 0	0 5 0	3 14 0	3 14 0	3 13 3	Patna.
2 12 0	2 12 0	3 2 0	...	..	..	...	...	...	0 4 6	0 5 0	0 4 6	3 14 0	3 15 0	3 13 6	Balasore.
...	...	...	.	...	..	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
2 12 0	2 11 0	2 2 0	...	...	...	2 12 0	2 12 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

Meteorological Divisions.	District.	Representative station.	STATION OBSERVATIONS.														
			Air pressure.			Wind.		Temperature.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree	30·016	30·029	—	Calm & N	62	?	?	59·4	15,15,17 Jan.	?	60·8	?	?	
		Gopalpore	30·006	30·056	—·041	NNW	213	80·2	15, 16 Jan.	61·9	13th ,,	79·4	61·0	71 3	+0·7	
		False Point	30 009	30·031	—·067	NWly.	130	82·9	15th ,,	55 5	16th ,,	79 7	59·0	69·4	+0·6	
	Cuttack	Cuttack	29·966	30·051	—·044	Calm	15	85·8	15th ,,	58·8	12th, 13th Jan.	84·2	59·4	71·8	—0·5	
	Balasore	Balasore	29·990	30·052	—·034	NNW	81·7	82·4	15th, 17th Jan.	53·5	16th ,,	81·2	55·9	68 5	+0·9	
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·006	30·033	—·002	NNE	171	77 7	15th, 16th Jan.	57·9	17th ,,	76 4	61·8	69·1	+1·5	
	Midnapore	Midnapore	29·882	30·041	—·075	N	21·8	85·3	14th ,,	54·2	16th, 17th Jan.	82·6	55·0	69 3	+2·8	
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·011	30·034	—·070	Calm	48	79 5	15th ,,	54·8	16th ,,	78·0	56·9	67·5	+1·3	
	Burdwan	Burdwan	29·924	30·030	— 030	Calm	21·8	82·1	14th ,,	53·8	16th ,,	80·0	55 9	68·3	+1·6	
	Bankoora	Bankoora	29·701	30·021	—·077	W	34	81·9	14th ,,	53·5	16th ,,	80·4	55·2	67 8	+1·6	
	Beerbhoom, West Burdwan	Raneegunge	29·700	30·053	—·066	WNW	29·9	82·5	14th ,,	54·2	16th ,,	80·5	55·6	68·1	+1·9	
	Moorshedabad	Berhampore	29·956	30·027	— 083	North-westerly.	33·5	79·1	14th & 15th Jan.	54·7	13th, 17th Jan.	78·2	56·2	67·2	+1·9	
	Nuddea	Krishnaghur	29·967	30·037	—·046	WNW	53·7	81·5	15th ,,	53·1	17th ,,	79·7	54·5	67·1	+2·5	
	Jessore, Khoolna	Jessore	29·990	30·025	—·069	Calm	17·7	79·7	13th & 14th Jan.	56·5	16th & 17th Jan.	79·0	58·1	68·6	+3·0	
East Bengal.	Chittagong	Chittagong	29·934	30·028	—·065	Calm	42·1	81·1	11th ,,	57·1	16th, 17th Jan.	79 7	58·1	68 9	+2·6	
	Chittagong Hill Tracts	Damagiri	Observations not received.													
	Backergunge	Barrisal	30·011	30·024	—·053	Calm	21·9	79·3	11th Jan.	56·1	15th, 17th Jan.	77·9	57·9	67·9	+3·5	
	Noakholly	Noakholly	29·982	30·028	—	Calm	50·0	79·3	15th ,,	54·9	15th ,,	78·7	55·8	67·2	—	
	Furreedpore	Furreedpore	29 983	30 025	—·059	Calm	23	74 7	14th ,,	55·0	16th & 17th Jan.	73·8	56·4	65·1	+1·1	
	Dacca	Dacca	29 990	30·014	—·080	Westerly	40·7	80 1	13th—15th Jan.	56·3	16th, 17th Jan.	79·3	57 6	68·5	+1·9	
	Tipperah	Commillah	29·999	30·036	—·048	SE & NE	10·8	79·4	14th & 15th Jan.	55·5	16th, 17th Jan.	78·7	57·3	67·9	+3·1	
	Mymensingh	Mymensingh	29·965	30·026	—·061	North-easterly.	30·7	77·5	11th ,,	58·1	16th ,,	75·1	59·2	67·2	+3·8	
North Bengal.	Bogra	Bogra	29·938	30·005	—·066	Calm	19·4	79·8	14th ,,	54·1	14th ,,	77·9	54·9	66·4	+0·8	
	Pubna	Serajgunge	29·970	30·019	—·055	Variable	6·0	78·9	14th ,,	53·3	16th ,,	77·6	54·3	66·0	+2·5	
	Rajshahye	Rampore Beauleah	29·948	30·022	—·000	N	60·7	78·9	13th ,,	54·7	17th ,,	77·6	55·4	66·5	+4·0	
	Maldah	Maldah	29·959	30·045	—	NW	65·9	79·8	12th ,,	52·5	14th & 17th Jan.	78·4	53·4	65·9	—	
	Dinagepore	Dinagepore	29·948*	30 056*	— 017	Northerly	37	79·1	13th ,,	51 7	14th ,,	77·1	53·2	65 2	+2·1	
	Rungpore	Rungpore	29·902	30 035	—·071	ENE	22	78·0	12th ,,	52·0	16th ,,	77·0	52·9	65·0	+3·5	
	Julpigoree, Cooch Behar	Julpigoree	29·733	30·036	—·066	North-easterly.	18·7	?	?	51 9	13th ,,	?	50·1	?	?	
	Darjeeling Hill Tracts	Darjeeling	22·948	—	—	WSW	91·4	53·6	15th, 16th Jan.	35·0	12th ,,	53·3	36·7	45·0	+4·6	
North Behar.	Purneah, North Bhagulpore	Purneah	29 894	30·030	—·078	Calm	22·9	76·2	12th & 13th Jan.	49·5	16th ,,	75·3	51·4	63·3	+1·6	
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·856	30·035	—·080	SW	36	77·9	11th Jan.	52·6	15th ,,	76·6	55·7	66·2	+4·0	
	Chumparun	Motihari	29·860	30·044	—·051	Westerly	80·0	77·2	15th ,,	47·9	17th ,,	76·5†	50·2†	63·4†	+2·7	
	Sarun	Chupra	29·925	30·031	—·058	SW	25 0	77·3	17th ,,	53·0	11, 12, 13, 16 Jan.	76·3	53·0	64·0	+4·0	
South Behar.	Shahabad	Dehree	29·675	30·055	—·070	SW	124·1	80·8	14th ,,	52·0	11th ,,	77·9	54·2	66·0	+4·6	
		Buxar	29·788	30·048	—·068	W	59·9	78 4	14th, 15th ,,	49·4	15th ,,	76·4	51·3	63·8	+2·1	
		Arrah	29·858	30 038	—·061	Calm	45·6	78·3	15th ,,	49·3	15th ,,	76 6	51·4	64·0	+3·4	
	Gya	Gya	29·645	30·048	—·073	Sonth-westerly.	101·4	80·0	14th ,,	52·6	17th ,,	78·5	53·3	65·9	+2·8	
	Patna	Bankipore	29·855	30·051	—·076	SW	22·4	78·1	15th ,,	50·4	16th ,,	75 9	53·2	64·5	+3·2	
	South Bhagulpore, Monghyr	Bhagulpore	29·856	30·028	—·074	Calm	30	78·3	13th ,,	51·0	16th ,,	77·4	53·2	65·3	+3·2	
	Sonthal Pergunnah	Doomka	29·508	30·042	—	North-westerly.	28·6	80·6	14th ,,	51·1	16th ,,	78·3	53·2	65·7	—	
Chutia Nagpur	Hazaribagh	Hazaribagh	27·973	30 005	—·052	SW	101·8	78 4	14th ,,	51·4	16th, 17th Jan.	75 9	52·8	64 3	+2·7	
	Lohardugga, Manbhoom	Ranchee	27·841	30·056	—·055	Calm	91·0	80·0	14th ,,	47·9	16th ,,	76·6	51·5	64·1	+2·5	
	Singbhoom	Chyebassa	29·267	30·074	—	Calm & WsW	17·8	84·5	14th ,,	51·2	11th ,,	81·4	53·0	66·7	—	

* Means of five days. † Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the la
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb
are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the p
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fall.

for the week ending Friday, the 17th of January 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
89	0·3	Nil	Nil	0·05	Nil	0·07	−0·07	74·88	55·24	+19·64	0·0	0·2	Pooree	Pooree	Orissa.
76	0	Nil											Gopalpore		
92	0·1	Nil											False Point		
80	1·7	Nil	Nil	0·06	Nil	0·10	−0·10	66·24	51·05	+14·89	0·0	0·2	Cuttack	Cuttack	
88	0	Nil	Nil	0·05	Nil	0·15	−0·15	49·89	52·75	−2·86	0·0	0·1	Balasore	Balasore	
96	0·1	Nil	Nil	0·07	Nil	0·16	−0·16	58·43	62·17	−3·74	0·0	0·2	Saugor Island	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
77	0	Nil	Nil	0·09	Nil	0·25	−0·25	46·29	51·32	−5·03	0·0	0·3	Midnapore	Midnapore	
91	0	Nil	Nil	0·08	Nil	0·23	−0·23	53·38	51·41	+1·97	0·0	0·3	Calcutta	24-Pergunnahs	
														Howrah	
														Hooghly	
84	0	Nil	Nil	0·04	Nil	0·11	−0·11	43·83	46·42	−2·59	0·0	0·1	Burdwan	Burdwan	
70	0	Nil	Nil	0·01	Nil	0·08	−0·08	55·38	52·87	+3·51	0·0	0·1	Bankoora	Bankoora	
78	0	Nil	Nil	0·12	Nil	0·22	−0·22	52·44	51·40	+1·04	0·0	0·3	Raneegunge	Beerbhoom	
														West Burdwan	
97	0·9	Nil	Nil	0·14	Nil	0·24	−0·24	51·13	50·26	+0·89	0·0	0·3	Berhampore	Moorshedabad	
91	0·1	Nil	Nil	0·05	Nil	0·13	−0·13	51·49	49·02	+2·47	0·0	0·2	Krishnaghur	Nuddea	
93	0·6	Nil	Nil	0·08	Nil	0·19	−0·19	53·39	52·80	+0·53	0·0	0·2	Jessore	Jessore	
														Khoolna	
92	0·1	Nil	Nil	0·09	Nil	0·17	−0·17	100·02	113·19	−13·17	0·0	0·3	Chittagong	Chittagong	East Bengal.
			Nil	0·03	Nil	0·18	−0·18	65·13	80·81	−15·68	0·0	0·1	Demagiri	Chittagong Hill Tracts	
92	0·4	Nil	Nil	0·05	Nil	0·29	−0·29	77·82	76·61	+1·21	0·0	0·2	Barrisal	Backergunge	
92	0	Nil	Nil	0·06	Nil	0·43	−0·43	90·29	106·26	−15·97	0·0	0·2	Noakholly	Noakholly	
95	0	Nil	Nil	0·03	Nil	0·13	−0·13	60·32	55·54	+4·78	0·0	0·1	Furreedpore	Furreedpore	
93	0	Nil	Nil	0·04	Nil	0·14	−0·14	74·59	59·37	+15·22	0·0	0·1	Dacca	Dacca	
89	0·3	Nil	Nil	0·09	Nil	0·30	−0·30	55·45	69·12	−13·67	0·0	0·2	Commillah	Tipperah	
94	0·4	Nil	Nil	0·08	Nil	0·17	−0·17	87·63	67·38	+20·25	0·0	0·2	Mymensingh	Mymensingh	
93	0	Nil	Nil	0·11	Nil	0·17	−0·17	64·81	57·10	+7·71	0·0	0·3	Bogra	Bogra	North Bengal.
97	0	Nil	Nil	0·12	Nil	0·19	−0·19	55·07	53·08	+1·99	0·0	0·3	Seraigunge	Pubna	
90	0·1	Nil	Nil	0·12	Nil	0·28	−0·28	54·30	53·60	+0·70	0·0	0·3	Rampore Beauleah	Rajshahye	
87	0	Nil	Nil	0·14	Nil	0·23	−0·23	39·76	53·98	−14·22	0·0	0·3	Maldah	Maldah	
89	0·9	Nil	Nil	0·06	Nil	0·11	−0·11	57·37	56·71	+0·66	0·0	0·2	Dinagepore	Dinagepore	
92	0	Nil	Nil	0·08	0·02	0·17	−0·15	85·18	73·89	+11·29	0·0	0·2	Rungpore	Rungpore	
93	1·4	Nil	Nil	0·04	0·06	0·06	0	117·19	111·26	+5·93	0·0	0·1	Julpigoree	Julpigoree	
														Cooch Behar	
90	5·9	Nil	0·10	0·12	0·33	0·21	+0·11	133·07	120·49	+12·58	0·8	0·3	Darjeeling	Darjeeling Hill Tracts	
95	0·3	Nil	Nil	0·00	Nil	0·16	−0·16	74·71	58·30	+16·41	0·0	0·2	Purneah	Purneah	North Bengal.
														North Bhagulpore	
			Nil	0·16	Nil	0·28	−0·28	48·66	43·89	+5·77	0·0	0·3	Mozufferpore	Mozufferpore	
90	0·7	Nil	Nil	0·15	Nil	0·27	−0·27	51·84	44·31	+7·53	0·0	0·3	Durbhunga	Durbhunga	
89	3·1	Nil	Nil	0·21	Nil	0·27	−0·27	63·55	46·40	+17·15	0·0	0·3	Motiharí	Chumparun	
85	1·9	Nil	Nil	0·16	Nil	0·23	−0·22	40·18	42·43	−2·30	0·0	0·3	Chupra	Sarun	
74	0	Nil											Dehree		South Behar.
80	1·6	Nil	Nil	0·24	Nil	0·33	−0·33	40·07	39·92	+0·15	0·0	0·4	Buxar	Shahabad	
87	1·9	Nil											Arrah		
89	2·0	Nil	Nil	0·21	Nil	0·31	−0·31	37·07	41·20	−4·13	0·0	0·3	Gya	Gya	
82	0·6	Nil	Nil	0·15	Nil	0·25	−0·25	43·49	41·03	+2·46	0·0	0·3	Bankipore	Patna	
89	0·6	Nil	Nil	0·13	Nil	0·19	−0·19	43·43	43·27	−0·84	0·0	0·3	Bhagulpore	South Bhagulpore	
														Monghyr	
83	0	Nil	Nil	0·07	Nil	0·16	−0·16	54·15	50·50	+3·65	0·0	0·2	Doomka	Sonthal Pergunnahs	
80	0·4	Nil	Nil	0·09	Nil	0·28	−0·28	43·03	50·39	−7·36	0·0	0·2	Hazaribagh	Hazaribagh	Chutia Nagpur.
75	0	Nil	Nil	0·19	Nil	0·30	−0·39	44·34	49·03	−4·69	0·0	0·3	Ranchi	Lohardugga	
			Nil	0·12	Nil	0·21	−0·21	38·33	46·66	−8·33	0·0	0·3		Manbhoom	
73	0	Nil	Nil	0·13	Nil	0·25	−0·25	48·76	51·03	−2·27	0·0	0·4	Chyebassa	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of January 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 11th January 1890.	Sunday, 12th January.	Monday, 13th January.	Tuesday, 14th January.	Wednesday, 15th January.	Thursday, 16th January.	Friday, 17th January.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	80·63	51·08
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	76·57	56·34
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	65·50	48·95
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	76·80	63·37
		Gop ...	.. ..	.....	.....	.. ..	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli ...											?		?
	Cuttack ..	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	78·97	46·81
		Banki ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·96	52·43	49·32
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 03	75·18	56·05
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	72 03	52·93
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	57·64	53 21
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore ...	Chandbali ...	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	54·04	52·08
		Bhuddruck ...	.....	.. ..	.....	.. ..	.....	.....	.....	Nil	Nil	Nil	0·08	57·66	51·37
		Soroh ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	46·05	50·91
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·01	57·50
		Jellasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	39·50	53·51
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·79	53·68
* South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	58·13	61·12
		Saugor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 14	56·74	66·86
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	49·40	50·99
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	46·26	48·58
		Ghatial ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	43 19	54 37
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·65	?
		Heria ...	.....	. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·06	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·72	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	63·41	58·21
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·80	?
		Alipore Jail ..	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	51·80	55·56
		Barrackpore...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	51·79	49·58
		Dum-Dum ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	64·58	51·41
		Baraset ..	.....	.....	.....	.....	.....	.....	... .	Nil	Nil	Nil	0·24	57·61	49·00
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	60·02	54·36
	Howrah ...	Howrah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	N.l	0·26	59·12	51·59
		Mohesreka .. (*Octobersah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	54·64	51·83
	Hooghly ...	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	55·27	49·86
		Hooghly ...	... ..	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·10	56·93	47·80
		Jehanabad ..	.....	.. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	41 16	54·76
	Burdwan ...	Culna ...	... .	.. ...	.....	.....	.....	.. ....	.....	Nil	Nil	Nil	0·09	41·32	44·05
		Burdwan ...	. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	47·07	47·55
		Cutwa ...	.....	.....	... .	.....	... ..	.....	.....	Nil	Nil	Nil	0·20	43·11	47·55
		Kanecgunge .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	55·83	48·82
		Mankur ...	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·71	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	50·79	51·21
		Bishenpore ...	.....	.....	.. ...	.....	.....	.....	.....	Nil	Nil	Nil	0·08	57·49	51·66
		Malura ...	... ..	..	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	0·03		51·64
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	65·91	53 55
		Indas ...	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	?	40 44	?
		Gangajalghati	.....	.. ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·33	?
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	59 06	53·50
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 27	47·07	54·07
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 27	47·76	51·28
		Kolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·97	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea ...	Ranaghat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	55·80	46·62
		Kishnaghur ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	49·95	45·85
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 16	49·81	50·82
		Meherpore ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	53·05	47·38
		Kooshtea .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	55·91	54·15
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	53·51	55·01
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	54 00	61·12
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	55·78	54·46
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	49·47	48·50
		Jessore ...	.....	... .	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	62·35	53·92
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 18	50·56	53·17
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 10	50·48	48·98
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	46·01	51·50
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	55·38	50·88
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	40·16	51·07
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 05	47·13	50·60
		Azimgunge ...	. ...	.. ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25		50 90
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	55·01	48·97
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	59·02	50·76
		Jugunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·25	?
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·81	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	123·69	135·26
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	76·42	93·23
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·06	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	63·04	83·38
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	67·20	79·96
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	87·20	87·45
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	72·16	69·05
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	72·62	67·27
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	79 26	81·66

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of January 1890—contd.

Meteorological Division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 11th January 1890.	Sunday, 12th January.	Monday, 13th January.	Tuesday, 14th January.	Wednesday, 15th January.	Thursday, 16th January.	Friday, 17th January.	Number of rainy days.	Rainfall of week.				
East Bengal —contd.		*Gournaddi* ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·31	?
		Bauphal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	93·89	?
	Noakholly ..	Noakholly	.....	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	0·31	102·17	107·50
		Feuny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	78·38	106 45
		Harishpore ...	.....	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	?	82·96	?
		Ramganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·75	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	60·66	55·18
		Furreedpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	63·80	55·98
		Goalundo .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	56·29	52·70
	Dacca ...	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	76·33	69·74
		Dacca .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	75·69	58·18
		Narainguuge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	80·36	59 51
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	67·99	49 76
		Joydebpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·61	?
	Hill Tipperah Tipperah	Agartola ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	64·08	61 22
		Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	62·17	78·75
		Chandpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·82	73·44
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	50·68	61·46
		Ramchandrapore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·14	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·89	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52 29	?
		Kasba .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·44	?
		Laksham .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69 09	?
	Mymensingh	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	69·56	69·83
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 20	61·00	55·18
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	96·55	73·79
		Jamalpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	85·14	64·93
		Netrokona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	125·92	78·44
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	149·98	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·09	?
		Dewanganj .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	86·31	?
North Bengal	Pubna ..	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	49·87	53·47
		Serajgunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	60·26	52·39
	Bogra ..	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	62·06	57·27
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 18	60·96	54·03
		Bogra ...	...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	70·63	60·35
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	64·96	55·51
	Rajshahye .	Beauleah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	46·20	53·78
		Nattore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 37	58·84	54 68
		Naogaon .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	67·87	50·53
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·73	?
		Manda .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·37	?
	Maldah ..	Maldah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	50·53	51·50
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	28·96	56·45
		Gazol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·77	?
	Dinagepore	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	53·63	56 00
		Churamon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	51·81	51·95
		Raigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	52·25	57·41
		Dinagepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	67·84	63·17
		Balcorghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	61·38	50·97
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·47	?
	Rungpore	Bhawanigunge (*Gyabanda*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	57·53	61·49
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·09	0·17	74·50	74·13
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	90 97	72·96
		Bagdogra (*Nilphamari*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	67·60	64·51
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·00	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0 11	123·32	116·56
		Alipore Door	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	?	127·63	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	89·92	?
		Bhagatpore (*Nagrakatta*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	?	138·98	?
	Cooch Behar	Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·03	98·19	95·75
		Cooch Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·10	125·39	117·96
		Mickligunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	121·37	105·31
		Mathabhanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	117·63	111·19
	Darjeeling Hill.	Buxa ...	.....	0·20	0·05	0·15	.....	.....	.....	3	0·40	0·91	0·51	192·00	192 22
		Silliguri ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·01	120·74	103·51
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·16	0·30	138·03	108 13
		Kalimpong .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·16	0·02	91·52	83·03
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·63	?	168·88	?
North Behar	Purneah ..	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	102·37	69·97
		Arrareah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	79 61	63·43
		Purneah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	63·45	61·26
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Baiarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Kaisaganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	60·85	40·98
		Soopool ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	67·26	47·85
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	*	87 85	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	62·44	42 94
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	50·01	45·30
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	63·11	44·61
		Rahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·96	?
		Koshera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·84	*
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	55·06	42·84
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	48·41	45 07
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	42·52	41·66
		Para ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·69	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·02	?
		Sonhar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	*	?	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·60	*

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of January 1890—concld.

Meteorological Division.	District.	Station.	Rainfall.							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 11th January 1890.	Sunday, 12th January.	Monday, 13th January.	Tuesday, 14th January.	Wednesday, 15th January.	Thursday, 16th January.	Friday, 17th January.	Number of rainy days.	Rainfall of week.				
North Behar—*concluded*	Chumparun	Motihari	.....	.....	.....	.....	.....	.....	. ..	Nil	Nil	Nil	0·28	74·79	44·46
		Bettiah	.....	.....	. .	... ..	... ..	... .	... .	Nil	Nil	Nil	0·26	52·29	47·75
		Bagaha	.....	... ..	... ..	.....	.....	.....	. ...	Nil	Nil	Nil	?	69·87	?
		Burhurwa	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun	Gopalgunge	... .	.....	.....	.....	.. ...	... ..	.....	Nil	Nil	Nil	0·06	35·49	42·79
		Sewan	.....	.....	.....	.....	.....	... .	.....	Nil	Nil	Nil	0 38	41·20	43·59
		Chuprah	.....	.....	.....	. ...	.....	... ..	... ..	Nil	Nil	Nil	0·26	40·74	40·20
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	47·44	38·29
		Dehree	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·19	4: 66	39·50
		Bhaboosh	.....	.....	... ..	.....	.....	.....	... ..	Nil	Nil	Nil	0·39	38·16	40·67
		Sasseram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	29·41	40·46
		Arrah	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	42·69	40·02
		Mohaniah	.....	.....	.....	.....	.....	.. ..	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	35·48	42 88
		Gya	... .	... ..	.. ..	.....	... ..	.....	... ..	Nil	Nil	Nil	0·23	39·85	44·30
		Nowadah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	39·59	39·69
		Johanabad	.....	.....	.....	.....	.....	.....	. ..	Nil	Nil	Nil	0·37	33·40	39·60
		Arwal	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Daudnagar	.....	. ...	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	26·69	?
		Sherrghatti	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	?
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna	Patna	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·29	51·49	41·72
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	45·38	41·25
		Behar	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	0·28	41·06	41·60
		Barrh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	38·89	39·51
		Bukram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	.	43·28	?
		Hilsa	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	.	35·21	.
	Monghyr	Begoosarai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	47·03	39·65
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	41·67	41·24
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	39·48	42·60
		Gogri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?
		Sheikpura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	?
	South Bhagulpore.	Bhagulpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	45 06	41·91
		Banka	... ..	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	0·21	38·34	43·43
		Kolgong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·97	?
		Bangaon	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	59·90	52·09
		Godda	... ..	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·12	49 04	47·26
		Pakour	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	73·59	55·13
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	56·75	53·07
		Deoghur	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·22	40·40	50 42
		Jamtara	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0 16	46·21	48·90
		Mohagama	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·41	?
		Nanshat	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	53·67	?
Chutia Nagpur.	Hazaribagh	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	38·90	47·29
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	49·10	46 84
		Semtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	36·24	46·82
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37		47·64
		Jhoomra Hills	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·32	43·09	62·35
		Barhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·36	?
		Chatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·04	?
		Karagdeha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	.	39·35	.
		Ramghar	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?		?
	Lohardugga	Lohardugga	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·51	45·24	50·97
		Ranchi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	53 61	51·80
		Palamow	.....	.....	.....	.....	. . ..	.....	.....	Nil	Nil	Nil	0·39	54·16	48·01
		Silli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
		Balumat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hosennabad	.....	...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28·77	?
	Singbhoom	Chyebassa	. ....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	48·76	51·23
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·80	?
		Ghatsilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	?
		Baharagura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Manbhoom	Purulia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	43·44	48·86
		Gobindpore	.....	.....	.....	.....	.. ..	.....	.....	Nil	Nil	Nil	0·28	53·19	44·79
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Jhalda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·43	?
		Chas	.....	... ..	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	53·56	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank

CALCUTTA, *the 21st January* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 17TH JANUARY 1890.

THE meteorology of Bengal for the week calls for few remarks. Ordinary north-east monsoon conditions have generally obtained over the greater part of the province, though there has been a tendency for moist southerly winds to set in at a few of the southern stations, which has caused humidity and also temperature to be rather higher than usual at this season. This setting in of southerly winds has apparently been connected with one or more disturbances which have existed over the north-west Himalayas, but these disturbances have not been sufficiently important, nor have they existed long enough to materially affect the weather in Bengal. For the greater part of the week, therefore, fine clear weather has obtained, except at the stations in and near the hills, where the sky has been somewhat clouded over. Temperature has been moderate, though rather above the normal, and humidity has been decidedly high at some stations. Over the greater part of the province northerly winds have generally been reported, but the current has been rather light and feeble. Pressure has been rather low during the week, but the changes from day to day have not been large, while rainfall has been entirely absent except at the single station of Buxa in the Darjeeling Hills district, where some light showers have fallen.

Pressure.—On the 11th, pressure had fallen over the whole province by amounts which varied from 0·03 inch to 0·07 inch, the fall being largest near the hills. During the following two days the pressure recovered itself slightly, but on the 14th there had been a slight fall which was succeeded by a further rise on the 15th. On the 16th the changes were a little variable, while on the 17th a slight rise was generally reported. For the whole week the mean pressure has been below the normal by amounts which have varied between 0·05 inch and 0·08 inch, the defects being generally largest at the northern stations, and particularly along the line of the hills.

Temperature—Has been rather high throughout the week, and the mean temperature for the whole of the province has been about two and-a-half degrees above the normal. The excess has been even larger than this in Behar, where it has equalled more than three degrees. The distribution of temperature during the week, its range from day to night, and its variation from the normal are best seen in the following table, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. Both day and night temperatures have been decidedly in excess at all these stations except at Cuttack, and as a general rule the day or maximum temperatures have been rather more largely in excess than the night or minimum temperatures. The excess in the day temperature above the normal at Darjeeling has been no less than 8·9°, which is most exceptionally large :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 17th January 1890.

	Normal mean maximum temperature for the week ending 17th January.	Actual mean maximum temperature for the week ending 17th January 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 17th January.	Actual mean minimum temperature for the week ending 17th January 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 17th January.	Actual mean daily temperature for the week ending 17th January 1890.	Variation of actual mean from the normal.
Cuttack	84·5	84·2	−0·3	60·3	59·4	−0·9	72·4	71·8	−0·6
Calcutta	77·0	78·0	+1·0	56·0	56·9	+0·9	66·6	67·5	+0·9
Dacca	78·7	79·3	+0·6	55·2	57·6	+2·4	66·9	68·5	+1·6
Burdwan	78·4	80·6	+2·2	55·3	56·9	+0·6	66·8	68·3	+1·5
Patna	72·5	75·9	+3·4	50·6	53·2	+2·6	61·5	64·8	+3·0
Gya	75·5	78·5	+3·0	50·0	53·3	+2·4	62·7	65·9	+2·8
Purneah	74·8	75·3	+0·5	49·8	51·4	+2·6	61·8	63·3	+1·5
Hazaribagh	72·3	75·9	+3·6	51·1	52·8	+1·7	61·8	64·3	+2·5
Darjeeling	44·4	53·3	+8·9	35·5	36·7	+1·2	40·2	45·0	+4·8

Rainfall.—With the exception of two or three unimportant light showers at Buxa in the Darjeeling Hills district, the whole province has been rainless throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 17th of January 1890 :—

Meteorological Divisions.	Temperature						Rainfall.								
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 16th May 1889
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	85·8°	53 5	81·1°	59·6	70·3°	+0·4	Nil	0·05	—0 05	0 0	0 2	—0·2	Nil	0·10	62·01	53·63
South-West Bengal ...	85 3	53·1	79·5	56·7	68 1	+2·0	Nil	0·08	—0·08	0 0	0·2	—0·2	Nil	0·19	52 37	51·76
East Bengal	81·1	54·9	77·6	57·5	67·5	+2·7	Nil	0·06	—0·06	0 0	0 2	—0·2	Nil	0 22	75 53	73·93
North Bengal	79 8°	51·7	77·6°	54·3	65·8°	+2·6	Nil	0·09	—0·09	0·0	0 2	—0·2	0·02	0·16	73·14	70 03
North Behar	77·9	47·9	75·7	52·7	64·2	+3·1	Nil	0·14	—0·14	0·0	0·3	—0·3	Nil	0·23	57·66	48 41
South Behar	80 8	49·3	77·3	52·8	65·0	+3·2	Nil	0·15	—0·15	0·0	0·3	—0·3	Nil	0 23	44·16	43 57
Chutia Nagpur	80 0°	47·9°	76·2°	52·2°	64 2°	+2·8°	Nil	0·12	—0·12	0·0	0·4	—0·4	Nil	0·29	43 08	49·17

* Pooree, Julpiguri, and Chyebassa not included.

Meteorological Office, Bengal ;
The 21st January 1890

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 12th to 18th January 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Jan 1890 ...	12th ...	30 031	68 3	78·9	21·2	57·7	70·6	67·6	·637	65·9	85	Nil
,, ,, ...	13th ...	·042	70·2	80 9	21·5	59·4	73·6	68·6	·633	65 7	76	...
,, ,, ...	14th ...	·032	71·0	80·9	19·8	61 1	73·2	69·4	·669	67·3	82	...
,, ,, ...	15th ...	·054	67·7	78 9	22 5	56 4	71·4	63 6	·485	58·1	63	...
,, ,, ...	16th ...	·068	68·0	79.9	23 8	56 1	71·6	62 7	·452	56·1	63	...
,, ,, ...	17th ...	·090	68·0	80 0	24·0	56·0	72·2	65·0	·522	60 1	66	...
,, ,, ...	18th ...	·094	68·9	80 9	24·0	56 9	70 9	64 6	·526	60 4	70	...

		Inches.
The mean 10 A.M. pressure of the seven days		30·059
		°
The mean temperature of the seven days		68·9
The extreme variation of temperature		24·9
The maximum temperature		80·9
		%
The mean 10 A.M. relative humidity of the seven days		72
		Inches.
The total fall of rain from 12th to 18th January 1890		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office. India ;
The 20th January 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 12th to 18th January 1890.

Month.	Date	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr	Temperature				Hygrometry.				Wind		Rain	Weather
					Mean	Maximum.	Range	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction	Miles recorded		
1890		○		Inches	○	○	○	○	○	Inches	○	%			Inches	
Jan	12th	135 1	8 5	29 952	66 6	77 8	20 9	56·9	62 7	0 521	60 1	81	WSW and calm ..	38	Nil	Chiefly clear, ⌓; ≡.
,,	13th	133 9	9 2	950	68 1	79 0	21 7	57 3	63 8	538	61 0	80	WSW and SW ..	81	,,	Clear, ⌓, ≡.
,,	14th	133 9	8 6	942	68 5	79 3	18·8	60 5	63 4	518	60·0	77	SW and NNE	48	,,	Chiefly clear, ⌓, ≡.
,,	15th	129 6	8 4	975	66 1	77 5	22 0	55 5	60·5	457	56 4	73	NNE and NNW .	47	,,	Chiefly clear, ⌓, ≡.
,,	16th	129 3	9 2	30 002	65 9	78 6	23 0	55 6	60 4	465	56 3	73	NW by N and calm	31	,,	Clear, ⌓, ≡.
,,	17th	124 9		019	66 8	79 9	25 2	54 7	60 7	451	56·0	69	NW by N and NNW	34	,,	Clear, ⌓, ≡.
,,	18th	129 4	8 9	·003	67 6	78 6	22 6	56 0	61 9	479	57 8	71	NNW and SW by W	47	,,	Clear, ⌓ ≡.

	Inches
The mean pressure of the seven days	29·978
The average pressure of the corresponding period for 24 years, S.-G.'s Office ..	30·023
	Hours.
The total number of hours of bright sunshine	61·9
The maximum possible number of hours of sunshine	76 0
	○
The mean temperature of the seven days	67·1
The average temperature of the corresponding period for 24 years, S.-G.'s Office	67·1
The extreme variation of temperature	25·2
The maximum temperature	79 9
	Miles
The highest velocity of the wind in one hour	9
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	75
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	70
	Inches
The total fall of rain from 12th to 18th January 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0 03
The total fall from 1st to 18th January 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew; ≡ fog.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 20th January 1890.

MEMORANDUM.

For the week ending 4th January 1890, the returns of the principal Municipalities in Bengal disclosed the following particulars :—

1. Births were registered at the rate of 25·3 per 1,000 of population, and deaths at 23·7 per 1,000 as opposed to 24 and 27·9 per 1,000, respectively, during the preceding week ending 28th December 1889, indicating an improvement in the registration of births with a considerable falling off in that of deaths.

2. In the following Municipalities births and deaths were registered at the highest rates :—

Births.

	Ratio per mille.
Darjiling	51·9
Narainganj	49 7
Durbhanga	40·1
Monghyr	39·8
Bhagulpore	38·0
Utterpara	37·7
Chupra	36·2
Arrah	32 3
Bali	31·6
Serampore	31 4
Comillah	30 8

Deaths.

	Ratio per mille.
Utterpara	84 9
Poori	81·8
Comillah	57 7
Narainganj	53·8
Jessore	49·0
Hughli and Chinsurah	47 6
Burdwan	44·2
Serampore	39·3
Darjiling	37·0
Ranaghat	35·9
Rampore Bauleah	31·5
Chittagong	30 5

3. The subjoined table gives the death-rates from the following specific diseases. The figures denote that, as compared with the results of the preceding week, there was a diminution of mortality from all the diseases excepting small-pox, *vide* figures below :—

	Ratio per *mille* during the weeks ending—	
	4th January 1890.	28th December 1889.
Cholera	2·2	3·2
Small-pox	·5	·4
Fever	9 8	10·4
Bowel-complaints	3 6	4·8
Injury	·2	·6
Other causes	7 3	8·4

4. Of the diseases mentioned above, while small-pox and bowel-complaints were noticeably fatal only in the Poori town, viz., at the rates of 14·7 and 12·5 per 1,000 of population, respectively, cholera, fever and the maladies classed under the head of "Other causes" caused the highest mortality in the following Municipalities :—

Cholera.

	Ratio per mille.
Jessore	24·5
Comillah	19·2
Chittagong	18·8
Narainganj	16·6
Hughli and Chinsurah ...	11 5
Dacca	4·5

Fever.

	Ratio per mille.
Poori	31·5
Burdwan	27·4
Rampore Bauleah ...	23 6

Other causes.

	Ratio per mille.
Utterpara	37·7
Poori	21 0
Serampore	19 6
Comillah	19·2
Midnapore	13 9
Burdwan	12 2
Hughli and Chinsurah ...	11 5
Bhagulpore	10 0

5. It is observable that Poori continues to suffer very severely from small-pox which first appeared in the town a fortnight ago.

6. The mortality of the week classified under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per mille.
Males	25·0
Females	22 3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	114

According to Class.

	Ratio per mille.
Hindus	23·6
Mahomedans ...	24·2
Buddhists	51·4
Other classes ...	76·8

According to Age.

	Ratio per mille.
Under 1 year ...	202·3
1 and under 5 years ...	20 7
5 „ 10 „ ...	13·7
10 „ 15 „ ...	6·5
15 „ 20 „ ...	16·1
20 „ 30 „ ...	13·5
30 „ 40 „ ...	18 1
40 „ 50 „ ...	15·0
50 „ 60 „ ...	28·2
60 years and upwards ...	69 6

The 20th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 4th January 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease														Sex.				
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	7	10	17	10·7	15·2	25·9	70	...	...	18	3	...	8	29	...	...	27·4	4·6	..	12·2	44·2	33·6	17	13	48·9	34·0	141
Midnapore ...	Midnapore ..	16,927	16,633	33,560	9	4	13	13·2	6·2	20·1	225	...	...	6	2	...	9	17	...	...	9·3	3·1	...	13·9	26·3	24·8	7	10	21·5	31·3	68
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	7	17	16·4	11·5	27·9	142	7	...	9	6	...	7	29	11·5	...	14·8	9·8	...	11·5	47·6	44·3	10	19	32·5	62·4	52
Serampore ...	Serampore ...	13,389	12,937	26,426	8	8	16	15·7	15·7	31·4	100	1	1	3	4	1	10	20	2·0	2·0	5·9	7·8	2·0	19·6	39·3	68·7	13	7	49·9	28·1	175
	Utterpara	3,046	2,464	5,510	4	...	4	37·7	...	37·7	No female birth.	...	...	3	2	...	4	9	...	...	28·3	16·9	...	37·7	84·9	56·6	5	4	85·4	84·4	101
Howrah ...	Howrah	53,153	37,680	90,813	13	21	34	7·4	12·0	19·5	62	2	...	14	12	...	15	43	1·1	...	8·0	6·9	...	8·6	24·6	31·5	23	20	22·5	27·6	81
	Bali	7,836	6,979	14,815	3	6	9	10·5	21·1	31·6	50	...	...	5	2	...	1	8	...	...	17·5	7·0	...	3·5	28·1	21·1	5	3	33·2	22·4	150
Nuddea ...	Kishnaghur ...	13,203	14,214	27,477	10	1	11	18·9	1·9	20·8	1,000	...	...	4	...	...	3	7	...	...	7·5	...	...	5·7	13·2	9·5	5	2	19·6	7·3	271
	Ranaghat	4,028	4,655	8,683	2	3	5	11·9	15·8	29·9	66	2	...	2	...	...	2	6	11·9	...	11·9	.	...	11·9	35·9	53·9	2	4	25·8	44·7	57
	Santipore	13,708	15,979	29,687	5	1	6	8·8	1·7	10·5	500	...	...	4	2	...	1	7	...	...	7·0	3·5	...	1·7	12·3	15·8	5	2	19·0	6·5	316
Jessore ...	Jessore	4,850	3,645	8,495	2	...	2	12·2	...	12·2	No female birth.	4	..	3	...	...	1	8	24·5	...	16·4	.	....	6·1	49·0	61·2	3	5	32·3	70·9	45
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	5	11	15·8	13·1	28·9	120	1	...	9	1	1	...	12	2·6	...	23·6	2·6	2·6	..	31·5	28·9	6	6	29·0	34·6	86
Darjiling ...	Darjiling	4,579	2,439	7,018	2	5	7	14·8	37·0	51·9	40	.	...	3	1	...	1	5	...	...	22·2	7·4	...	7·4	37·0	51·9	4	1	45·4	21·3	214
Dacca ...	Dacca	42,783	37,379	80,161	19	15	34	12·3	9·7	23·1	126	7	...	8	9	...	14	38	4·5	...	5·2	5·8	...	9·1	24·7	35·3	16	22	19·4	30·6	63
	Narainganj ...	7,605	4,956	12,561	6	6	12	24·8	24·8	49·7	100	4	...	3	3	...	3	13	16·6	...	12·4	12·4	...	12·4	53·8	62·1	7	6	47·9	63·0	74
Chittagong ...	Chittagong ...	13,240	8,790	22,130	6	6	12	14·1	14·1	28·2	100	3	..	2	2	...	1	13	18·8	...	4·7	4·7	...	2·3	30·5	26·2	11	2	42·9	11·8	382
Tipperah ..	Comillah	8,183	5,353	13,536	4	4	8	15·4	15·4	30·8	100	5	...	5	...	...	5	15	19·2	...	19·2	...	...	19·2	57·7	42·4	9	6	57·4	58·3	98
Patna	Patna City ...	78,762	81,475	160,237	23	19	42	7·5	6·1	13·6	121	3	2	10	5	...	9	29	1·0	·6	3·2	1·6	...	2·9	9·4	16·9	15	14	9·9	8·9	112
Gya	Gya	38,290	37,831	76,121	16	24	40	10·9	16·4	27·3	66	...	...	22	...	1	12	35	...	...	15·0	...	·7	8·2	23·9	36·1	23	12	31·2	16·5	194
Shahabad	Arrah	20,960	22,505	43,465	14	13	27	16·7	15·6	32·3	107	...	1	8	2	...	...	11	...	1·2	9·6	2·4	...	...	13·2	20·3	5	6	12·4	13·9	92
Mozufferpore	Mozufferpore ...	25,084	19,688	42,742	7	5	12	8·5	8·6	12·2	233	...	...	...	2	1	1	4	...	...	...	2·4	1·2	1·2	4·9	21·9	1	3	2·8	7·9	33
Durbhanga ..	Durbhanga ...	33,774	32,822	66,096	23	28	51	18·1	22·0	40·1	82	...	...	20	3	...	7	30	...	...	15·7	2·4	...	5·5	23·6	15·7	14	16	21·6	25·7	84
Sarun	Chupra	25,116	26,554	51,670	21	15	36	21·1	15·1	36·2	140	...	...	5	3	...	4	12	...	...	5·0	3·0	...	4·0	12·1	14·1	6	6	12·4	11·7	109
Bhagulpore ...	Bhagulpore ..	29,640	27,813	57,453	24	18	42	21·7	16·3	38·0	133	...	...	9	1	...	11	21	...	...	8·1	·9	...	10·0	19·0	19·0	15	6	26·3	11·2	236
Monghyr ..	Monghyr	28,154	29,366	57,520	20	24	44	18·1	21·7	39·8	83	...	...	8	3	1	10	22	...	...	7·2	2·7	·9	9·0	19·9	25·3	13	9	24·0	15·9	169
Purneah ..	Purneah	8,463	6,553	15,016	2	5	7	6·9	17·3	24·2	40	...	...	2	...	...	...	2	...	...	6·9	..	...	..	6·9	31·2	2	...	13·3	...	No female death.
Poori	Poori	13,247	11,537	24,784	7	2	9	14·7	4·2	18·9	350	1	7	15	6	...	10	39	2·1	14·7	31·5	12·5	...	21·0	81·8	73·4	23	16	90·3	72·1	125
	Total ..	50,986	510,588	1,061,574	273	253	526	13·4	12·4	25·8	107	45	11	200	74	5	149	484	2·2	·5	9·8	3·6	·2	7·3	23·7	27·9	265	219	25·0	22·3	114

DISTRICTS.	NAMES OF MUNICIPALITIES.	12					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	18	11	...	...	...	39·5	55·7	...	...	7	3	4	1	1	2	1	1	1	8	551·5	69·1	89·2	20·7	16·6	13·1	7·5	11·3	21·2	280·7
Midnapore ...	Midnapore ...	...	9	8	...	...	...	18·0	57·6	...	...	2	...	..	...	1	2	2	3	1	6	140·0	.	...	...	16·5	14·2	16·8	41·9	25·2	170·5
Hughli ...	Hughli and Chinsurah	...	23	6	...	...	...	47·3	50·6	...	...	6	3	4	...	3	4	3	1	3	2	358·5	70·3	72·1	...	62·3	33·5	27·3	12·5	60·0	50·2
Serampore ...	Serampore ...	...	19	1	...	...	...	39·2	55·4	...	...	5	1	...	1	1	3	5	2	2	...	366·2	28·6	...	23·4	24·8	29·0	52·3	30·8	54·3	...
	Utterpara	..	8	1	...	...	...	78·1	282·6	...	...	4	...	...	...	...	2	1	...	...	1	1,291·9	...		...	...	135·5	49·0	...	...	200·0
Howrah ...	Howrah	...	28	14	...	1	..	21·4	35·6	..	215·8	11	6	2	...	1	5	9	2	2	5	277·3	56·3	16·5	...	7·1	11·5	24·3	8·8	18·9	69·3
	Bali	...	7	1	...	...	...	27·1	39·7	...	...	2	...	1	...	.	...	1	1	...	3	287·3		48·8	...	...	.	18·6	26·9	...	213·1
Nuddea ...	Kishnaghur ...	...	5	2	...	...	...	14·0	12·6	...	...	2	...	...	...	..	..	1	1	...	2	209·7	...	...	...	...	10·8	12 1	...	24·7	60·2
	Ranaghat	...	2	4	...	...	...	14·2	153·4	..	...	2	...	...	...	...	1	...	2	1	...	502·4	...	...	...	...	34·5	...	103·6	71·8	
	Santipore	...	6	1	...	...	...	15·1	5·3	...	...	1	1	...	1	...	1	..	...	...	3	61·5	17·9	...	17·9	...	10·6	...	...	...	79·4
Jessore ...	Jessore	...	5	3	...	...	...	57·6	40·3	...	...	1	1	..	1	...	..	2	2	1	...	268·0	105·3	...	78·2	..	...	68·0	99·0	92·4	
Rajshahye ...	Rampore Beauleah	...	4	8	...	...	...	21·0	42·4	...	...	1	1	2	..	1	...	2	...	...	4	123·1	35·7	50·0	...	31·3	12·5	28 9	...	...	216 0
Darjiling ...	Darjiling	...	5	...	...	...	...	56·6	...	...	...	..	1	..	...	...	1	1	1	1	...	...	88·9		...	...	26·0	36·3	75·1	213·1	..
Dacca ...	Dacca	...	25	13	..	...	...	32·3	17·2	...	...	4	1	3	2	5	7	4	4	3	5	109·6	7 1	15·7	15·1	35·6	23·8	17·8	24·8	32·9	46·7
	Naraingunj ...	...	4	9	...	...	...	34·9	76·9	...	...	2	3	1	1	...	2	1	2	1	..	372·8	136 8	29·4	45 8	...	39·0	24·3	74·7	66 5	...
Chittagong ..	Chittagong ..	...	1	10	2	...	...	9·0	34·0	435·4	...	...	...	..	1	...	1	6	1	2	2	.		...	24·2	...	11·2	93·5	23·0	95·9	130·7
Tipperah ...	Comillah	...	6	9	...	...	...	52·5	63·3	...	...	5	1	...	...	...	3	2	2	...	2	575·4	39·6	...	..	...	56·5	52·2	79·1	...	153·4
Patna	Patna City ..	...	25	4	...	...	...	10·9	5·1	...	...	6	..	...	1	2	5	5	2	4	4	72·4	...	...	3·6	9·3	9·6	11·2	8 5	14 7	15·1
Gya ...	Gya	...	31	4	...	...	...	26·9	12 9	...	..	5	3	1	...	3	1	4	3	5	10	165·3	24·6	7·4	...	29 8	8·5	16·3	16·0	39·6	101·0
Shahabad ...	Arrah	...	9	2	...	...	...	15 1	6·4	...	...	2	1	1	...	...	...	...	3	...	4	80·7	11·7	10·1	...		..	...	33·3	..	72·1
Mozufferpore ..	Mozufferpore ...	...	1	3	...	...	...	1·7	12·5	...	...	1	..	1	...	...	...	..	...	2	...	54·5	...	11·6	...	...	..	..	.	32·0	...
Durbhanga ...	Durbhanga	...	20	10	...	...	...	21 5	23·6	...	...	6	...	4	...	2	5	3	1	6	3	209 4	...	26 6	...	25·9	19·5	14·0	7·0	71·1	48·8
Saran	Chupra	...	11	1	...	...	...	14·4	4 4	...	...	6	...	...	...	3	...	1	...	...	2	221·1	...	..	...	44·9	...	6·7	...	...	30·6
Bhagulpore ...	Bhagulpore ...	..	16	5	...	...	...	20·9	15 1	...	...	6	2	...	...	2	3	1	..	1	6	261·3	19·2	...	...	24·9	14·3	5·6	...	12·2	66·6
Monghyr ...	Monghyr	...	16	6	...	...	...	18 6	24 8	...	...	7	2	2	2	...	2	1	...	...	6	245·1	16·7	14·7	18·1	...	10·1	5·8	...	...	87·0
Purneah ...	Purneah	...	1	1	...	...	...	5·7	9·2	...	...	...	...	...	...	...	..	.	...	...	2	...	...	.	...	..	...	...	..	...	128·
Poori ...	Poori	...	39	...	...	...	...	88·7	...	...	...	5	7	3	1	...	2	5	3	5	5	859·1	202·6	69·6	27·7	...	19·7	64·2	44·9	116·5	230·3
	TOTAL ...	—	344	137	2	1	...	23·6	24 2	51·4	76·8	99	37	29	12	25	55	61	36	42	58	29·3	20·7	13·7	6·5	16 1	13·5	13·1	15·0	25·2	69·6

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 20th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of October 1889.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
3	1. Grain ...	.....	26	26	725	26	725	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
3	4. Salt ...	.....	34	34	3,290	34	3,290	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
22	7. Building materials	.....	390	390	465	10	60	
...	8. Miscellaneous ...	.....	.....	.....	.....	.....	.....	
1	9. Fuel ...	.....	9	9	60	9	60	
1 raft	10. Timber No.	.....	1	1	2	1	2	
3 rafts	11. Bamboos „	.....	3,000	3,000	50	3,000	50	
29 & 4 rafts.	12. Total ...	..... /	459 & 3,001 No.	459 & 3,001 No.	4,592	79 & 3,001 No.	4,187	
22 & 7 rafts.	13. Total of same month last year.	12 /	255 & 6,017 No.	267 & 6,017 No.	9,305	267 & 6,017 No	9,305	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	.....	29	29
15. Total number of boats plying passenger No.	10	3	13
15½. Total empty boats	30	10	40
16. Total registered tonnage, cargo, private Tons	.....	150	150
16½. Ditto ditto, Government Tons	.....	626	626
17. Total registered tonnage, passenger Tons	294	10	304
17½. Ditto ditto, empty Tons	319	235	554
18. Ton-mileage ...	5,617	11,287	16,904
19. Estimated value of cargo Rs.	.....	4,540	4,540
20. Number of passengers ...	8	599	607
21. Rafts, bamboos No.	.....	3,000	3,000
22. Do., bullahs „	.....	1	1
23. Estimated value of rafts Rs.	.....	52	52
24. Tollage on boats „	64-4-0	138-7-0	202-11-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	1-15-6	1-15-6
26½ Two boats' demurrage for 60 days ...	.....	.....	26-0-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·30
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 + 26½ ...	230 10 6
Total tollage of same month last year ...	207 12 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ..	4 11 0
2. Tollage per month ...	230 10 6
3. Total ...	235 5 6
4. Amount credited in the accounts of the month ...	235 5 6
5. Balance due at the end of the month ...	.....

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
91	1. Grain ...	253	695	948	64,350	948	64,350	
...	2. Cotton ...	.....	.....	.....	.....	.....	.. ..	
8	3. Oilseeds ...	4	68	72	7,300	72	7,300	
13	4. Salt ...	7	33	40	2,270	40	2,270	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.. ..	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
47	7. Building materials	3	810	813	8,750	456	7,620	
69	8. Miscellaneous ...	423	293	716	37,960	697	28,860	
8	9. Fuel ...	25	.....	25	80	25	80	
18 rafts	10. Timber ...	126 c. ft.	1,542 c. ft.	1,688 c. ft.	250	1,668 c. ft.	250	
...	11. Bamboos ...	.....	.....	.....	.....	.. ...	... ..	
236 & 18 rafts.	12. Total ...	715 & 126 c. ft.	1,899 & 1,542 c. ft.	2,614 & 1,668 c. ft.	1,20,960	2,238 & 1,668 c. ft	1,10,730	
253	13. Total of same month last year.	984	1,160	2,144	2,82,250	2,144	2,82,250	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	102	134	236
15. Total number of boats plying passenger No.	55	55	110
15½. Ditto empty boats „	136	144	280
16. Total registered tonnage, cargo, private Tons	1,458	2,582	4,040
16½. Ditto ditto, Government „	21	606	687
17. Total registered tonnage, passenger Tons	1,881	1,893	3,774
17½. Ditto ditto empty boats „	952	578	1,530
18. Ton-mileage ...	191,870	235,680	427,550
19. Estimated value of cargo Rs.	28,230	92,480	1,20,710
20. Number of passengers ...	3,254	3,289	6,543
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., timber „	126	1,542	1,668
23. Estimated value of rafts Rs.	50	200	250
24. Tollage on boats „	1,844-3-5	2,600-6-11	4,444-10-4
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	1-4-6	9-3-10	10-8-4
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-10-1

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	4,455 2 8
Total tollage of same month last year ...	4,368 1 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	3,897 3 10
2. Tollage per month ...	4,455 2 8
3. Total ...	8,352 6 6
4. Amount credited in the accounts of the month ...	4,033 5 7
5. Balance due at the end of the month ...	4,319 0 11

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
47	1. Grain ...	165	4	169	8,960	169	8,960	
2	2. Cotton ...	.....	7	7	1,900	7	1,900	
23	3. Oilseeds ...	111	.....	111	9,360	111	9,360	
30	4. Salt ...	.....	82	82	6,930	82	6,930	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
37	7. Building materials	71	224	295	1,140	71	750	
35	8. Miscellaneous ...	84	27	111	9,050	111	9,050	
8	9. Fuel ...	62	.....	62	190	62	190	
3 rafts.	10. Timber ...	5,826 c. ft.	.....	5,826 c. ft.	900	5,826 c. ft.	900	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
182 & 3 rafts.	12. Total ...	493 & 5,826 c. ft.	344	837 & 5,826 c. ft.	38,430	613 & 5,826 c ft	38,040	
284	13. Total of same month last year ...	824	239	1,063	56,830	1,063	56,830	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	114	68	182
15. Total number of boats plying passenger No.	11	5	16
15½. Ditto empty boats „	66	98	164
16. Total registered tonnage, cargo, private Tons	923	268	1,191
16½. Ditto ditto, Government „	.....	445	445
17. Total registered tonnage, passenger Tons	47	21	68
17½. Ditto empty boats „	255	362	617
18. Ton-mileage ...	35,655	21,375	57,030
19. Estimated value of cargo Rs.	24,120	13,410	37,530
20. Number of passengers ...	45	28	73
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., timber „	5,826	.....	5,826
23. Estimated value of rafts Rs.	900	.....	900
24. Tollage on boats „	304-13-4	167-2-6	471-15-10
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	96-4-9	...	96-4-9
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1 6
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-10-5

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	568 4 7
Total tollage of same month last year	659 2 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	132 12 9
2. Tollage per month ...	568 4 7
3. Total ...	701 1 4
4. Amount credited in the accounts of the month	630 2 10
5. Balance due at the end of the month ...	70 14 6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
20	1. Grain ...	51½	7	58½	2,409	58½	2,409	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ..	.....	.....	.....	.....	.....	.....	
1	4. Salt ...	.....	4	4	560	4	560	
10	5. Piece-goods ...	.....	11	11	3,080	11	3,080	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
45	7. Building materials	21½	332	353½	402	.....	.....	
7	8. Miscellaneous ...	2½	22	24½	2,254	24½	2,254	
4	9. Fuel ...	.....	12	12	33	3	6	
23 rafts	10. Timber ...	.....	3,204 c. ft.	3,204 c. ft.	1,602	3,204 c. ft.	1,602	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
87 & 23 rafts.	12. Total ...	75½	388 & 3,204 c. ft.	463½ & 3,204 c. ft.	10,340	101 & 3,204 c. ft.	9,911	
125 & 4 rafts.	13. Total of same month last year.	265	237½ & 53 No.	502½ & 53 No.	29,703	410½ & 53 No.	29,622	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	22	65	87
15. Total number of boats plying passenger No.	2	3	5
15½. Ditto empty boats „	53	18	71
16. Total registered tonnage, cargo and boat Tons	109	94	203
16½. Ditto Govt. boat ditto „	43	682	725
17. Total registered tonnage, passenger Tons	4	5	9
17½. Ditto empty ditto „	309	45	354
18. Ton-mileage	5,192	8,640	13,832
19. Estimated value of cargo Rs.	2,439	6,299	8,738
20. Number of passengers ...	249	199	448
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	3,204	3,204
23. Estimated value of rafts Rs.	.....	1,602	1,602
24. Tollage on boats „	55-8-0	143-12-0	199-4-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26 Tollage on rafts „	.....	25-13-3	25-13-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·76
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-10

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	225	1	3
Total tollage of same month last year ...	192	6	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	27	3	9
2. Tollage per month ...	225	1	3
3. Total ...	252	5	0
4. Amount credited in the accounts of the month ...	252	5	0
5. Balance due at the end of the month ...	.....		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
12	1. Grain ...	27½	4½	32	1,664	32	1,664	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
2	4. Salt ...	.....	6½	6½	744	6½	744	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
15	7. Building materials	.....	135	135	234	.....	.....	
2	8. Miscellaneous ...	.....	9	9	1,812	9	1,812	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
2 rafts	10. Timber ...	.....	180 c. ft.	180 c. ft.	78	180 c. ft.	78	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
31 & 2 rafts.	12. Total ...	27½	155 & 180 c. ft.	182½ & 180 c. ft.	4,532	47½ & 180 c.ft.	4,298	
59	13. Total of same month last year.	116	53½	169½	13,223	165½	13,210	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	11	20	31
15. Total number of boats plying passenger No.	.....	.....	.....
15½. Ditto empty ditto "	21	11	32
16. Total registered tonnage, cargo and boat Tons	55	40	95
16½. Ditto Govt. ditto "	.....	270	270
17. Total registered tonnage, passenger Tons	.....	.....	.....
17½. Ditto empty ditto "	125	26	151
18. Ton-mileage ...	1,155	1,676	2,831
19. Estimated value of cargo Rs.	1,301	3,153	4,454
20. Number of passengers ...	215	148½	363½
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs "	.....	180	180
23. Estimated value of rafts Rs.	.....	78	78
24. Tollage on boats "	19-11-9	54-15-0	74-10-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	.....	1-14-0	1-14-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-5·06
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-0-8

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	76 8 9
Total tollage of same month last year	71 9 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	2 6 0
2. Tollage per month ...	76 8 9
3. Total ...	78 14 9
4. Amount credited in the accounts of the month ...	78 14 9
5. Balance due at the end of the month ...	.....

JAJPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
2	1. Grain ...	.....	7½	7½	380	7½	380	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
...	5 Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
...	7. Building materials	.....	.....	.....	.....	.....	.....	
14	8. Miscellaneous ...	.....	5	5	280	5	280	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ..	.....	.....	.....	...	.....	.....	
16	12. Total ...	.....	12½	12½	660	12½	660	
23 & 15 rafts.	13. Total of same month last year.	128½ & 648 No.	.....	128½ & 648 No.	4,624	33½ & 648 No.	4,540	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	.....	16	16
15. Total number of boats plying passenger No.	1	2	3
15½. Ditto empty boats „	16	2	18
16. Total registered tonnage, cargo and boat Tons	.....	25	25
16½. Ditto Govt. boat „	.....	.....	.....
17. Total registered tonnage, passenger Tons	2	4	6
17½. Ditto, empty boats „	.....	.....	.....
18. Ton-mileage ...	144	235	379
19. Estimated value of cargo Rs.	.....	660	660
20. Number of passengers ...	8	22	30
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats „	1-14-6	4-6-6	6-5-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·29
28. Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	6 5 0
Total tollage of same month last year	32 7 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	0 3 6
2. Tollage per month ...	6 5 0
3. Total ...	6 8 6
4 Amount credited in the accounts of the month ...	6 8 6
5. Balance due at the end of the month ...	.....

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL

LENGTH OF CANAL OPEN, 53 MILES

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value	Quantity.	Value.	
		Up.	Down	Total.	Rupees	Tons.	Rupees.	
950	1. Grain ...	5,124	344	5,468	3,05,012	5,468	3,05,012	
1	2. Cotton .	.....	... ..	... .	180	...	180	* 10 mds.
16	3. Oilseeds ...	52	53	105	9,766	105	9,766	
69	4. Salt ...	....	751	751	78,867	751	78,867	
4	5. Piece-goods ...	2	35	37	98,500	37	98,500	
8	6. Metal	46	20	66	62,246	66	62,246	
27	7. Building materials	97	21	118	856	118	856	
320	8. Miscellaneous ..	795	668	1,463	2,52,382	1,463	2,52,382	
24	9. Fuel ...	44	57	101	2,032	101	2,032	
86 rafts	10. Timber ...	36,205 c. ft.	94 c. ft.	36,299 c. ft.	9,545	36,299 c ft	9,545	
1 raft	11. Bamboos ...	800 „	. ....	800 „	48	800 „	48	
1,419 & 87 rafts.	12. Total ..	6,160 & 37,005 c. ft.	1,949 & 94 c ft	8,109 & 37,099 c. ft	8,19,434	8,109 37,099 c ft.	8,19,434	
1,804 & 85 rafts.	13. Total of same month last year.	7,925 & 26,596 c ft.	2,763 & 541 c. ft	10,688 & 27,137 c. ft.	11,20,048	10,688 27,137 c.ft.	11,20,048	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,124	295	1,419
15. Total number of boats plying passenger No.	607	739	1,346
15½. Ditto empty „	524	877	1,401
16. Total registered tonnage, cargo Tons	14,180	3,241	17,421
17. Total registered tonnage, passenger Tons	3,803	4,908	8,711
17½. Ditto empty „	1,942	3,758	5,700
18. Ton-mileage	425,125	231,004	656,129
19. Estimated value of cargo Rs.	4,18,141	3,91,700	8,09,841
20. Number of passengers ..	7,005	8,768	15,773
21. Rafts, bamboos C. ft	800	... ..	800
22. Do., bullahs „	36,205	94	36 299
23. Estimated value of rafts Rs	9,374	219	9,593
24. Tollage on boats „	6,737-3-0	3,541-6-9	10,278-9-9
25. Compounded tollage on boats Rs	.....	.....	...
26. Tollage on rafts „	275-13-0	3-12-0	279-9-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	10,558	2	9
Total tollage of same month last year .	13,019	4	6

Memorandum of Tollage.

	Rs.	A	P
1. Balance not recovered on the 1st of the month	4,429	12	10
2. Tollage per month ...	10,558	2	9
3. Total ..	15,057	15	7
4. Amount paid into Treasury during the month ...	12,150	1	6
5. Balance due at the end of the month ...	2,907	14	1

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
337	1. Grain ...	2,056	... ...	2,056	1,03,208	2,056	1,03,208	
...	2. Cotton ...	..	... .	.....	.....	.....	...	
6	3. Oilseeds ...	4	13	17	1,680	17	1,680	
25	4. Salt ...	... ..	194	194	21,490	194	21,490	
2	5. Piece-goods ...	.....	5	5	5,200	5	5,200	
1	6. Metal ..	.....	...	.....	50	.....	50	
22	7. Building materials	24	103	127	1,050	127	1,050	
693	8. Miscellaneous ...	894	287	1,181	87,192	1,181	87,192	
7	9. Fuel ...	27	18	45	703	45	703	
18 rafts	10. Timber ...	1,694 c. ft.	2,209 c. ft.	3,903 c ft.	3,367	3,903 c ft	3,367	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
1,093 & 18 rafts.	12. Total ..	3,005 & 1,694 c. ft.	620 & 2,209 c. ft.	3,625 & 3,903 c. ft.	2,23,940	3,625 & 3,903 c. ft	2,23,940	
1,415 & 6 rafts.	13. Total of same month last year.	3,730 & 973 c. ft.	963 & 56 c ft	4,693 & 1,029 c. ft.	2,69,845	4,693 & 1,029 c. ft.	2,69,345	

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	596	497	1,093
15.	Total number of boats plying passenger No.	59	59	118
16.	Total registered tonnage, cargo Tons	6,159	3,351	9,510
17.	Total registered tonnage, passenger Tons	710	541	1,251
18.	Ton-mileage	107,677	68,881	176,558
19.	Estimated value of cargo Rs.	1,31,752	88,821	2,20,573
20.	Number of passengers ...	2,031	1,760	3,791
21.	Rafts, bamboos C. ft.	.....	.....	.....
22.	Do., bullahs ,,	1,694	2,209	3,903
23.	Estimated value of rafts Rs.	1,135	2,232	3,367
24.	Tollage on boats ,,	1,882-15-9	1,208-9-6	3,091-9-3
25.	Compounded tollage on boats Rs.	.....	0-5-6	0-5-6
26.	Tollage on rafts ,,	17-13-0	65-6-3	83-3-3
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-2-1

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	3,175	2	0
Total tollage of same month last year	4,242	13	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,744	15	6
2. Tollage per month ...	3,175	2	0
3. Total ...	4,920	1	6
4. Amount paid into Treasury during the month	3,176	12	9
5. Balance due at the end of the month	1,743	4	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
24	1. Grain ...	4	292	296	19,428	296	19,428	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	1	5	6	1,164	6	1,164	
...	4. Salt ...	47	.....	47	5,312	47	5,312	
31	5. Piece-goods ...	166	5	171	31,933	171	31,933	
...	6. Metal ...	4	.....	4	1,380	4	1,380	
19	7. Building materials	.....	142	142	1,229	130	1,179	
62	8. Miscellaneous ...	264	272	536	73,972	309	73,294	
rafts ...	9. Fuel ..	.....	7	7	25	7	25	
	10. Timber ...	.....	4	4	33	4	33	
	11. Bamboos ...	.....	7	7	185	7	185	
137	12. Total ...	486	734	1,220	1,34,661	981	1,33,933	
141	13. Total of same month last year ...	433	1,036	1,469	1,61,876	1,129	1,59,380	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	60	77	137
15. Total number of boats plying passenger No.	5	8	13
15½. Ditto empty „	102	39	141
16. Total registered tonnage, cargo Tons	839	1,000	1,839
17. Total registered tonnage, passenger Tons	114	148	262
17½. Ditto empty „	348	230	578
18. Ton-mileage ...	54,396	88,784	143,180
19. Estimated value of cargo Rs.	45,694	88,724	1,34,418
20. Number of passengers ...	290	375	665
21. Rafts, bamboos C. ft.	.....	1,095	1,095
22. Do., bullahs „	.....	862	862
23. Estimated value of rafts Rs.	.....	243	243
24. Tollage on boats „	446-3-0	658-0-6	1,104-3-6
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts „	.....	5-1-9	5-1-9
27. Total tollage on boats per ton-mile Rs	.....	.....	0-0-1·6
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-4-2

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,259	5	3
Total tollage of same month last year ...	1,478	11	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	421	9	4
2. Tollage per month ...	1,259	5	3
3. Total ...	1,680	14	7
4. Amount credited in the accounts of the month	1,545	2	9
5. Balance due at the end of the month ...	135	11	10

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
19	1. Grain ...	2	121	123	9,864	123	9,864	
1	2. Cotton ...	3	.....	3	2,980	3	2,980	
4	3. Oilseeds ...	1	67	68	7,604	68	7,604	
24	4. Salt ...	221	.....	221	26,758	221	26,758	
...	5. Piece-goods ...	21	4	25	39,100	25	39,100	
...	6. Metal ...	1	.....	1	380	1	380	
19	7. Building materials	1	171	172	520	143	400	
92	8. Miscellaneous ...	64	738	802	54,059	330	53,566	
3	9. Fuel ...	.....	57	57	800	57	800	
...	10. Timber ...	.....	2	2	209	2	209	
Rafts	11. Bamboos	.....	13	13	200	13	200	
	11. Firewood ...	.....	164	164	674	164	674	
162	12. Total ...	314	1,337	1,651	1,43,148	1,150	1,42,535	
123	13. Total of same month last year.	477	740	1,217	1,38,656	1,131	1,36,540	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	37	125	162
15 Total number of boats plying passenger No.	1	4	5
15½. Total number of empty boats No.	100	50	150
16. Total registered tonnage, cargo Tons	538	2,009	2,547
17. Total registered tonnage, passenger Tons	69	81	150
17½. Total registered tonnage, empty Tons	441	210	651
18. Ton-mileage ...	46,838	103,263	150,101
19. Estimated value of cargo Rs.	79,915	62,359	1,42,274
20. Number of passengers ...	950	1,040	1,990
21. Rafts, bamboos C.ft.	.....	2,050	2,050
22. Do., bullahs „	.....	.....	.....
22½. Do., firewood „	.....	12,350	12,350
23. Estimated value of rafts Rs.	.....	874	874
24. Tollage on boats „	289-6-9	613-10-0	903-0-9
25. Compounded tollage on boats Rs.	164-0-0	164-0-0	328-0-0
26. Tollage on rafts „	.....	17-13-6	17-13-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·57
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-1-11

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,248 14 3
Total tollage of same month last year ...	1,185 6 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	435 10 6
2. Tollage per month ...	1,248 14 3
3. Total ...	1,684 8 9
4. Amount credited in the accounts of the month	1,387 14 0
5. Balance due at the end of the month ...	296 10 9

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
6	1. Grain ...	.....	122	122	7,994	122	7,994	
..	2. Cotton ...	.....	.....	.....	.....	.....	.....	
3	3. Oilseeds ...	.....	70	70	6,943	70	6,943	
..	4. Salt ...	2	.....	2	432	2	432	
..	5. Piece-goods ...	7	1	8	10,910	8	10,910	
..	6. Metal ...	1	.....	1	690	1	690	
10	7. Building materials	.....	142	142	845	.....	.....	
20	8. Miscellaneous ...	27	244	271	19,790	271	19,790	
..	9. Fuel ...	.....	.....	.....	.....	.....	.....	
afts	10. Timber ...	.....	48	48	345	48	345	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
39	12. Total ...	37	627	664	47,949	522	47,104	
57	13. Total of same month last year.	134	861	895	91,052	895	91,052	

	Up.	Down.	Total.
Total number of boats plying cargo No.	2	37	39
Total number of boats plying passenger No.	10	9	19
Ditto empty „	24	7	31
Total registered tonnage, cargo Tons	40	803	843
Total registered tonnage, passenger Tons	270	243	513
Ditto empty „	92	24	116
Ton-mileage ...	4,674	17,496	22,170
Estimated value of cargo Rs.	13,738	33,866	47,604
Number of passengers ...	749	712	1,461
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs „	.....	3,636	3,636
Estimated value of rafts Rs.	.....	345	345
Tollage on boats „	24-10-3	208-15-9	233-10-0
Compounded tollage on boats Rs.	91-0-0	91-0-0	182-0-0
Tollage on rafts „	.....	9-4-0	9-4-0
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·5
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-4-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	424	14	0
Total tollage of same month last year ...	628	2	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	54	4	0
2. Tollage per month ...	424	14	0
3. Total ...	479	2	0
4. Amount credited in the accounts of the month ...	457	9	0
5. Balance due at the end of the month ...	21	9	0

ABSTRACT FOR THE MONTH OF OCTOBER 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1889-90.		Traffic, 1888-89.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	230 10 6	2,635 2 1	207 12 6	1,274 2 9	
Kendrapara Canal System	4,455 2 8	25,716 8 4	4,368 1 6	24,768 6 5	
High Level, Range I ...	568 4 7	3,967 1 3	659 2 6	3,373 13 9	
Ditto, „ II ...	225 1 3	1,702 1 6	192 6 6	1,464 5 3	
Ditto, „ III ...	76 8 9	813 8 6	71 9 3	715 11 0	
Jajepore Canal ...	6 5 0	50 5 8	32 7 6	39 5 6	
Total Orissa Circle ...	5,562 0 9	34,884 11 4	5,531 7 9	31,635 12 8	
South-Western Circle.					
Midnapore Canal ..	10,558 2 9	85,923 4 3	13,019 4 6	77,084 7 9	
Hidgellee Tidal Canal .	3,175 2 0	31,162 9 9	4,242 13 3	39,800 15 3	
Total South-Western Circle	13,733 4 9	1,17,085 14 0	17,262 1 9	1,16,885 7 0	
Sone Circle.					
Patna Canal System ...	1,259 5 3	15,601 9 6	1,478 11 6	16,288 15 0	
Arrah ditto ...	1,248 14 3	11,267 1 8	1,185 6 3	12,174 10 6	
Buxar ditto ...	424 14 0	4,097 12 5	628 2 6	5,655 2 0	
Total Sone Circle ...	2,933 1 6	30,966 7 7	3,292 4 3	34,118 11 6	
Grand Total ...	22,228 7 0	1,82,937 0 11	26,085 13 9	1,82,639 15 2	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1889-90.						Traffic, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A.
High Level	816	290	744 3 1	3,921	4,268	4,164 13 11	703	71	716 12 3	2,461	1,269	2,728 11
Total Orissa Circle ...	816	290	744 3 1	3,921	4,268	4,164 13 11	703	71	716 12 3	2,461	1,269	2,728 11

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1889-90.		Earnings, 1888-89.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	6,306 3 10	39,049 9 3	6,248 4 0	34,364 8 2	
Midnapore Canal ...	10,558 2 9	85,923 4 3	13,019 4 6	77,084 7 9	
Hidgellee Tidal Canal ...	3,175 2 0	31,162 9 9	4,242 13 3	39,800 15 3	
Sone Canals ...	2,933 1 6	30,966 7 7	3,292 4 3	34,118 11 6	
Total ...	22,972 10 1	1,87,101 14 10	26,802 10 0	1,85,368 10 8	

Calcutta,
The 21st January 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 18th January 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 18th January 1890.			Week ending Saturday, the 19th January 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,073	4,01,615	7,255	1,803	4,62,560	8,717
Jute	188	1,41,075	2,484	211	1,34,950	2,401
Firewood	66	40,125	600	167	75,425	1,167
Other articles	766	2,04,505	2,752	1,169	2,36,615	3,754
Total ...	2,693	7,87,380	13,091	3,350	9,09,550	16,039

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of November 1889, as compared with the same month of the previous year.

Staples.	1888.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1888.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,211	.....	1,213	.....	1,211	1,213	2	.....
Cotton, raw	8	.....	13	.....	8	13	5	.....
Cotton piece-goods—								
1.—European	45	3	33	.....	48	33	.....	15
Grains—								
2.—Rice	54	416	48	6	470	54	.....	416
3.—Gram	1	.....	.....	4	1	4	3	.....
4.—Others	5	33	10	10	38	20	.....	18
Hides and skins—								
1.—Hides of cattle—								
b.—Undressed	.....	2	.....	11	2	11	9	.....
Jute—								
1.—Raw	.....	118	23	7	118	23	.....	95
2.—Gunny bags and cloths	9	....	7	1	9	8	.....	1
Leather, manufactured	8	.....	5	.....	8	5	.....	3
Liquors—								
1.—Beer	1	.....	.....	.....	1	.....	.....	1
2.—Wines	1	.....	.....	.....	1	.....	.....	1
Metals—								
1.—Copper, unwrought	.....	.....	.....	5	.....	5	5	.....
2.—Iron	1	.....	13	.....	1	13	12	.....
4.—Others	1	5	1	.....	6	1	.....	5
Oils—								
1.—Castor	.....	1	1	.....	1	1	.....	.....
2.—Kerosine	3	.....	5	2	3	7	4	.....
3.—Others	4	.....	.....	.....	4	.. ...	.....	4
Oilseeds—								
1.—Linseed	.....	20	.....	8	20	8	.....	12
2.—Mustard and rape	16	.....	25	12	16	37	21	.....
Provisions—								
1.—Ghee	.....	.....	4	.....	.....	4	4	.....
2.—Dried fruits and nuts	6	2	...	.....	8	.....	.....	8
3.—Others	7	.....	2	4	7	6	.....	1
Paper and pasteboard	2	1	.....	.....	3	.....	.....	3
Railway plant and rolling-stock	109	26	37	30	135	67	.....	68
Salt	23	.....	45	.....	23	45	23	.....
Silk, raw—								
2.—Indian	.....	2	8	3	2	11	9	.....
Silk piece-goods—								
2.—Indian	.....	7	.....	3	7	3	.....	4
Stone and lime	10	.....	6	.....	10	6	.....	4
Sugar—								
1.—Drained	15	. ...	3	.....	15	3	.....	12
2.—Undrained	1	.....	6	.....	1	6	5	.....
Tobacco	.... .	.....	1	1	.....	2	2	.....
Timber	1	.....	3	.....	1	3	2	.....
Wool—								
1.—Raw	.....	1	1	.....	1	1	.....	.....
b.—Indian	4	.....	.....	.....	4	.....	.....	4
All other articles of merchandise	60	20	42	31	80	73	... ..	7
Total ...	1,605	857	1,553	131	2,262	1,686	106	682

	Tons.
INCREASE.	
Hides and skins—	
(1) Hides of cattle—	
(*b*) Undressed	9
The increase is due to greater export.	
Metals—	
(2) Iron	12
Due to greater import for local consumption.	
Oilseeds—	
(2) Mustard and rape	21
Due to greater demand.	
Salt	28
Owing to sudden demand imported by rail.	
Silk, raw—	
(2) Indian	9
Due to greater export to Europe.	
DECREASE.	
Cotton piece-goods—	
(1) European	15
This was imported by the steamer plying between Jeagunge and Calcutta.	
Grains—	
(2) Rice	416
This is due to less export from intermediate stations owing to less demand in North-Western Provinces this year.	
Jute—	
(1) Raw	95
This was despatched by boat.	
Oilseeds—	
(1) Linseed	12
Less exported owing to less demand.	
Railway plant and rolling-stock	68
Less Railway material was carried during the month.	
Sugar—	
(1) Drained	13
This is due to less demand, bazar being dull.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

The 27th December 1889.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the first 11 *days of January* 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ..	361,717	4,16,729 7 0	42,50,665 20	9,60,460 2 0	30,683 8 0	14,07,873 1 0	100,533½	146,312½	246,845½
Or per mile of railway . .	.....	273 2 9	. .	629 9 8	20 1 10	922 14 3	.....	.....	.....
For previous weeks of half-year	... ..	.....	.....	.....	.....	.....	.. ..	... ..	.....
Total for 11 days ...	361,717	4,16,729 7 0	42,50,665 20	9,60,460 2 0	30,683 8 0	14,07,873 1 0	100,533½	146,312½	246,845½
COMPARISON.									
Total for corresponding first 12 days of previous year ...	384,947	4,61,374 12 6	49,06,786 30	10,94,156 3 7	26,814 5 5	15,82,345 5 6	111,242	179,594	290,836
Per mile of railway corresponding period of previous year	.....	302 7 1	.....	717 3 11	17 9 3	1,037 4 3	.....	.....	.....
Total to corresponding date of previous year	384,947	4,61,374 12 6	49,06,786 30	10,94,156 3 7	26,814 5 5	15,82,345 5 6	111,242	179,594	290,836

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

Receipts for the first 12 days of January 1889.			Receipts for the first 11 days of January 1890.			Total receipts from 1st April 1888 to 12th January 1889.			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	16,82,345	1,037	1,525½	14,07,873	922	1,525½	3,41,22,071	546	1,525½	3,39,68,940	543	.....	153,131

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for the first 11 *days of January* 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P	Mds. S	Rs. A. P.	Rs. A. P.	Rs A. P			
Total traffic for the period ...	21,710	11,145 9 0	83,625 30	3,661 13 0	72 13 0	14,880 3 0	2,746	1,016	3,762
Or per mile of railway	380	194 13 8	937 30	64 0 3	1 4 4	260 2 3	.....	.....	..
For previous weeks of half-year	... .	. ..	... ..	.. ..	... ..	... ..	... ..	.....	... ..
Total for 11 days ...	21,710	11,145 9 0	83,625 30	3,661 13 0	72 13 0	14,880 3 0	2,746	1,016	3,762
Comparison									
Total for corresponding first 12 days of previous year ..	22,363	11,985 3 0	44,644 20	2,937 3 0	69 2 9	14,991 8 9	3,226	878	4,104
Per mile of railway corresponding period of previous year ...	400	209 5 6	780 20	51 5 7	1 3 4	263 1 5	.....	..	... .
Total to corresponding date of previous year	22,363	11,985 3 0	44,644 20	2,937 3 0	69 2 9	14,991 8 9	3,226	878	4 104

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the first 12 days of January 1889.			Receipts for the first 11 days of January 1890.			Total receipts from 1st April 1888 to 12th January 1889			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs	Rs.	Rs.
57½	14,992	262	57½	14,880	260	57½	3,83,750	164	57½	3,97,311	169	13,561	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the first 11 *days of January* 1890, *on* 23½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	28,832	7,334 11 0	17,311 0	722 3 0	10 8 0	8,067 6 0	1,419	99	1,518
Or per mile of railway	.....	329 10 4	.....	32 7 4	0 7 7	362 9 3	....	. ....	. . .
For previous weeks of half-year	.....	.....	... ..	.		...	. ...	..	. . .
Total for 11 days ...	28,832	7,334 11 0	17,311 0	722 3 0	10 8 0	8,067 6 0	1,419	99	1,518
Comparison.									
Total for corresponding first 12 days of previous year	31,203	7,705 7 3	15,086 20	538 15 0	11 2 0	8,255 8 3	1,538	112	1,650
Per mile of railway corresponding period of previous year .	.....	346 5 0	.....	24 5 7	0 8 0	371 0 7	. ..	.. .	..
Total to corresponding date of previous year	31,203	7,705 7 3	15,086 20	538 15 0	11 2 0	8,255 8 3	1,538	112	1,650

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the first 12 days of January 1889.			Receipts for the first 11 days of January 1890.			Total receipts from 1st April 1888 to 12th January 1889.			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1889.	Total decrease in 1889
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
22½	6,256	271	22½	6,067	263	22½	2,15,158	136	22½	2,12,003	132	....	3,075

NALHATI STATE RAILWAY.

Approximate Return of Traffic for first 11 *days of January* 1890, *on* 27½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the first 11 days	4,553	1,642 0 0	29,334 0	1,084 0 0	31 0 0	3,357 0 0	800	399	1,199
Or per mile of railway	167	60 0 0	1,076 0	62 0 0	1 0 0	123 0 0	.....	.....	.....
For previous weeks of half-year	..	... ..	...	... .	.....	... .	...	.....	.....
Total for one week	4,553	1,642 0 0	29,334 0	1,084 0 0	31 0 0	3,357 0 0	800	399	1,199
COMPARISON.									
Total for corresponding period of previous year	5,053	1,913 0 0	24,731 0	1,236 0 0	22 0 0	3,201 0 0	872	762	1,634
Per mile of railway corresponding week of previous year ...	185	70 0 0	916 0	46 0 0	1 0 0	117 0 0	.....	.....	.....
Total to corresponding date of previous year	5,053	1 913 0 0	24,731 0	1,236 0 0	22 0 0	3,201 0 0	872	762	1,634

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for last 12 days of January 1889.			Receipts for last 11 days of January 1890.			Total receipts from 1st April 1888 to 12th January 1889			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	3,201	117	27½	3,357	123	27½	78,442	74	27½	77,907	73	.....	535

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for first 11 *days of January* 1890, *on* 273 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 11 days ...	68,548	28,612 0 0	3,42,046 0	30,248 0 0	7,435 0 0	75,295 0 0*	8,246	13,261	21,507
Or per mile of railway	231	105 0 0	1,253 0	144 0 0	5 0 0	254 0 0*	.....	.....	.....
For previous weeks of half-year	.....	... ..	.....	.....	..	. ....	.....	.....	.....
Total for one week ...	68,548	28,612 0 0	3,42,046 0	30,248 0 0	7,435 0 0	75,295 0 0	8,246	13,261	21,507
COMPARISON.									
Total for corresponding period of previous year	63,107	23,470 0 0	2,28,770 0	20,114 0 0	4,558 0 0	47,142 0 0	9,215	9,080	18,295
Per mile of railway corresponding week of previous year .	231	83 0 0	838 0	74 0 0	1 0 0	157 0 0*	.....	.....	.....
Total to corresponding date of previous year	63,107	23,470 0 0	2,28,770 0	20,114 0 0	4,558 0 0	47,142 0 0	9,215	9,080	18,295

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for first 12 days of January 1889			Receipts for first 11 days of January 1890			Total receipts from 1st April 1888 to 12th January 1889			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs	Rs.	Rs.	Rs.
273	47,142	173	273	75 295	276	234·07	12,96,945	126	273	15,89,317	146	2,03,672	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 21st December 1889	7,007
Corresponding week last year	10,835
Decrease	3,828
Receipts from 1st July to 21st December 1889	2,76,214
From 1st July to 22nd December 1888	2,96,767
Decrease	20,553

Compared with 1887, there is an increase of Rs. 26,649 for the corresponding period.

	Miles.
Miles open week ending 21st December 1889	51
Corresponding week last year	51

	Rs	A.	P.
Receipts per mile open week ending 21st December 1889	137	6	3
Corresponding week last year	212	7	4
Decrease	75	1	1

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WEDNESDAY, JANUARY 29, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 159A.

GENERAL.—*The 23rd January* 1890.—Sub-Lieutenant O. B. Griffiths, of the Calcutta Naval Volunteers, is allowed leave of absence for nine months, with effect from the 1st proximo.

Mr. F. H. Barrow, C.S., has been granted by Her Majesty's Secretary of State for India an extension of furlough for one month.

The 24th January 1890.—Baboo Mon Mohun Roy, Temporary Deputy Magistrate and Deputy Collector, Bankoora, is allowed leave for two months and fifteen days, under article 273(*a*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

Baboo Nogendra Nath Pal Chowdry, Deputy Magistrate and Deputy Collector, Aurangabad, Gya, is transferred to the Sudder station of the district of Bankoora.

Baboo Ram Churn Lal, Deputy Magistrate and Deputy Collector, Mozufferpore, is transferred to the district of Gya, and is appointed to have charge of the Aurangabad subdivision of that district.

Mr. R. H. Renny, Assistant Commissioner, is transferred to the Sudder station of the district of Singbhoom.

Mr. E. F. Growse, Officiating Joint-Magistrate and Deputy Collector, Shahabad, is allowed furlough for [illegible] of the Civil Service Regulations, with [illegible] e may avail himself of it.

[illegible] Deputy Collector, Rajshahye, [illegible]t district.

[illegible] is allowed leave for [illegible]s, with effect from the

Mr. F. E. Pargiter, Joint-Magistrate and Deputy Collector, Rajshahye, is appointed to act as District and Sessions Judge of Bhagulpore, during the absence, on leave, of Mr. C. A. Wilkins, or until further orders.

Baboo Bhubendra Nath Roy, Sub-Deputy Collector, Bhagulpore, is transferred to Monghyr with effect from the date on which he joined his appointment.

Baboo Bogola Prosunno Mozoomdar, Deputy Magistrate and Deputy Collector, Chandpore, Tipperah, is allowed leave for two months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The 25th January 1890.—The order of the 13th instant, transferring Baboo Gopi Krishna Lall, Sub-Deputy Collector, Godda, Sonthal Pergunnahs, to Singbhoom, is cancelled.

The 27th January 1890.—Baboo Radhica Lall Shome, Sub-Deputy Collector, Bishenpore, Bankoora, is allowed leave for ten days, under article 291 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 10th ultimo.

In modification of the order of the 16th ultimo, Baboo Dhoneswar Mohapatra is appointed to act as Uriya Translator to Government, during the absence, on leave, of Baboo Chaturbhooj Patnaik, or until further orders.

The 28th January 1890.—Mr. G. W. Place, Joint-Magistrate and Deputy Collector, Midnapore, acted as Magistrate and Collector of that district from the afternoon of the 13th to the forenoon of the 23rd instant.

Mr. C. P. Caspersz, Joint-Magistrate and Deputy Collector, is appointed to act in the first grade of Joint-Magistrates and Deputy Collectors from the forenoon of the 16th instant up to the date on which he may receive charge of his appointment as Officiating Magistrate and Collector of Chittagong.

Baboo Benode Behari Sircar, Sub-Deputy Collector, Burdwan, is allowed leave for six months, under article 369 of the Civil Service Regulations in extension of the leave granted to him under the order of the 6th August 1889.

Baboo Jogendra Nath Chuckerbutty, Sub-Deputy Collector, Midnapore, is transferred to the district of Burdwan.

Baboo Prankissen Das, Sub-Deputy Collector, Bishenpore, Bankoora, is transferred to the district of Midnapore.

Baboo Trailakhya Nath Bhuttacharjee, Temporary Sub-Deputy Collector, in charge of the Chupra Distillery in Sarun, is allowed leave for one week, under article 317 of the Civil Service Regulations, with effect from the 1st proximo.

POLICE.—*The 27th January* 1890.—Mr. R. F. G. Faussett is appointed to be an Inspector of Police of the first grade, with effect from the 1st December 1889, but will continue to act, until further orders, as an Assistant Superintendent of Police.

The 28th January 1890.—Mr. James Costello, Superintendent of the First Division, Town Police, is allowed privilege leave for three months, with effect from the 16th instant.

First class Inspector E. Robertson of the Calcutta Police is appointed to act as Superintendent of the First Division, Town Police, during the absence of Mr. J. Costello, on leave, or until further orders.

The services of Mr. A. Shuttleworth, Assistant Superintendent of Police, Backergunge, are placed at the disposal of the Government of India in the Home Department.

JAILS.—*The 18th January* 1890.—Mr. C. H. C. Sevenoaks, Superintendent of the Midnapore Central Jail, is allowed leave up to the 26th instant, under article 291 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 4th ultimo.

ECCLESIASTICAL.—*The 22nd January* 1890.—The Revd. F. Orton, Senior Chaplain, Bengal, has been granted by Her Majesty's Secretary of State for India extension of leave for six months on medical certificate, with effect from the 30th December 1889.

The 23rd January 1890.—The Revd. W. Kitchin, Junior Chaplain, Bengal, has been granted by Her Majesty's Secretary of State for India extension of leave for six months on medical certificate, with effect from the 6th February 1890.

EDUCATION.—*The 27th January* 1890.—Baboo Romesh Chunder Sen, B.L., Officiating Law Lecturer, Chittagong College, is confirmed in that appointment, *vice* Baboo Satkari Haldar, resigned.

The 28th January 1890.—Baboo Nobin Chandra Dey, Law Lecturer, Patna College, is allowed leave without allowances for six months, in extension of the leave granted to him under the order of the 24th July 1[illegible]

Baboo Kailash Chandra Se[illegible]
appointed temporarily as Ass[illegible]
charge of the current duti[illegible]
addition to his own, *vic*[illegible]

Baboo Bidyadh[illegible]
Assistant Inspect[illegible]
Baboo Kailash[illegible]

MEDICAL.—*The 28th January* 1890.—Surgeon-Major R. L. Dutt, Civil Surgeon, Purneah, is appointed to act as Civil Surgeon of Midnapore, during the absence, on deputation, of Surgeon-Major A. Tomes, or until further orders, with effect from the date on which he joined his appointment.

The services of Surgeon W. H. B. Robinson, Officiating Civil Surgeon of Jessore, are replaced at the disposal of the Government of India in the Home Department.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th January, 1890.—With reference to the Government notification, dated the 17th December, 1889, published at page 1036, Part I of the *Calcutta Gazette* of the 18th idem, ordering a survey of the lands in thannas Satkania and Banskhali, in the district of Chittagong, the Lieutenant-Governor is pleased to appoint Mr. W. J. O'Sullivan, Surveyor, third grade, to be an Assistant Superintendent of Survey, under section 4 of the Bengal Survey Act V of 1875, for the purposes of the said survey.

P NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 24th January, 1890.—With reference to the Government notifications, dated the 16th April and the 17th May, 1889, Mr. F. A. Slack is appointed, under rule 1, chapter VI of the rules under the Bengal Tenancy Act, to be Settlement Officer, *vice* Baboo Durga Charan Ghose, Special Deputy Collector, and is deputed to settle all lands, with the exception of the island of Moheshkhal, which are the property of Government and are included in old thanna Ramoo in the district of Chittagong.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 24th January, 1890.—With reference to the notification of the 17th December, 1889, under section 3 of Act V (B.C.) of 1875, regarding the survery of lands in thannas Satkania and Banskhali, in the district of Chittagong, the Lieutenant-Governor is pleased to appoint Mr. F. A. Slack to be the Superintendent of Survey under section 4 of the same Act for the purpose of carrying out the said survey.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 27th January, 1890.—With reference to the Government Notification, dated the 31st December, 1889, published at page 4, Part I of the *Calcutta Gazette* of the 1st January, 1890, ordering a survey of estate No. 1764, in the district of Backergunge, the Lieutenant-Governor is pleased to appoint Mr. J. McHatton, Surveyor, fourth grade, to be an Assistant Superintendent of Survey, under section 4 of the Bengal Survey Act V of 1875, for the purposes of the said survey.

P. NOLAN,
Secretary to the Govt of Bengal.

NOTIFICATION.

The 27th January, 1890.—In column 4 of Schedule II annexed to the Government Resolution of the 23rd May, 1888, on the subject of the preparation of price lists of staple food-crops under section 39 of the Bengal Tenancy Act VIII of 1885, published at pages 444-449, Part 1 of the *Calcutta Gazette* of the same date, *for* "Tajpore" *substitute* "Somastipore" against the Tajpore sub-division of the district of Durbhanga in the Patna Division.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 28th January, 1890.—With reference to the Government notifications, dated the 31st July, 3rd September, and 13th November, 1888, directing that a survey shall be made and a record of rights prepared, under section 101 of the Bengal Tenancy Act VIII of 1885, in respect of all lands included within the boundaries of the estates—

No. 5225	...	Char Shambhoopura,
„ 5226	...	„ Golokepura,
„ 5285	...	„ Jaynugger,
„ 52 9	...	„ Lamchipata,
„ 2724	...	„ Taluq Biswanath Takurti, and
„ 5234	...	„ Pudma,

in the district of Backergunge, Baboo Pyari Mohun Bose, Sub-Deputy Collector, is hereby appointed, under Rule I, Chapter VI of the Rules made by Government under the said Act, to be Settlement Officer of those estates, *vice* Baboo Girish Chandra Datta, Deputy Collector, transferred.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 22nd January 1890.—Baboo Purna Chandra Roy, Deputy Collector, is appointed Deputy Collector of Income-tax in the district of Furreedpore, *vice* Mr. Nil Kanta Sarkar, and under section 40 of Act II of 1886 is vested with the powers of a Collector under the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 160A.

The 21st January 1890.—Shah Burhanooddeen Mozuffer Hossein, an Honorary Magistrate of the Sheikpoorah Bench, in the district of Monghyr, is vested with the powers of a Magistrate of the second class.

Baboo Jogendro Nath Ghose, Munsif of Contai, Midnapore, is promoted to the first grade of Munsifs, with effect from the 27th November 1889, *vice* Baboo Gopi Mohun Mookerjee, deceased.

Baboo Jadu Nath Ghose, Munsif of Commillah, Tipperah, is promoted to the first grade of Munsifs, with effect from the 1st instant, *vice* Baboo Har Chandra Das, retired.

Baboo Hari Nath Roy, Additional Munsif of Diamond Harbour, 24-Pergunnahs, is promoted to the second grade of Munsifs, with effect from the 27th November 1889, *vice* Baboo Jogendro Nath Ghose.

Baboo Annada Prosad Bagchi, Munsif of Kushtea, Nuddea, is promoted to the second grade of Munsifs, with effect from the 1st instant, *vice* Baboo Jadu Nath Ghose.

Baboo Ram Lall Dutt, Munsif of Jamui, Bhagulpore, is promoted to the third grade of Munsifs, with effect from the 27th November 1889, *vice* Baboo Hari Nath Roy.

Baboo Promotho Krishna Singh, Munsif of Commillah, Tipperah, is promoted to the third grade of Munsifs, with effect from the 1st instant, *vice* Baboo Annada Prosad Bagchi.

Baboo Advoita Prosad De, substantive *pro tempore* Munsif of Ramroygram, Tipperah, is appointed to be a Munsif of the fourth grade, with effect from the 27th November 1889, *vice* Baboo Ram Lall Dutt.

Baboo Dandadhari Biswas, substantive *pro tempore* Munsif of Chupra, Sarun, is appointed to be a Munsif of the fourth grade, with effect from the 1st instant, *vice* Baboo Promotho Krishna Singh.

Baboo Gopal Chandra Bose, Officiating Additional Subordinate Judge, Bhagulpore, is appointed to be a substantive *pro tempore* Subordinate Judge of the third grade.

Baboo Kali Charan Ghoshal, Officiating Subordinate Judge, Mymensingh, is appointed to be a substantive *pro tempore* Subordinate Judge of the third grade.

Baboo Haro Govind Mookerjee, Officiating Subordinate Judge, Dinagepore, is appointed to be a substantive *pro tempore* Subordinate Judge of the third grade.

Baboo Loke Nath Nundy, Additional Munsif of Serampore, Hooghly, is promoted temporarily to the first grade [illegible] Chandra Bose.

Moulvi Abdul Ba[illegible]moted temporarily to the [illegible]t grade of Munsi[illegible]

[illegible] Ganesh

Baboo Mohendro Nath Das, Munsif of South Raojan, Chittagong, is promoted temporarily to the second grade of Munsifs, *vice* Baboo Ganeshyam Gupta.

Baboo Lall Singh, Additional Munsif of Sewan, Sarun, is promoted temporarily to the third grade of Munsifs, *vice* Baboo Jogendro Nath Mookerjee.

Baboo Krishna Lall Chatterjee, Munsif of Kaligunge, Dacca, is promoted temporarily to the third grade of Munsifs, *vice* Baboo Debendro Nath Roy.

Baboo Doorga Das Basu, Munsif of Manickgunge, Dacca, is promoted temporarily to the third grade of Munsifs, *vice* Baboo Mohendro Nath Das.

The 22nd January 1890.—Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Baboo Srish Chandra Mazumdar, Sub-Deputy Magistrate of Sitamarhi, in the district of Mozufferpore, to take down evidence in criminal cases in the English language.

Baboo Baroda Persad Bagchee is appointed to be an Honorary Magistrate of the Independent Bench at the Sudder station of the Rungpore district, and is vested with the powers of a Magistrate of the third class.

The 24th January 1890.—Baboo Naba Krishna Bhaduri is appointed to be an Honorary Magistrate of the Municipal Bench at Narsingunge, in the district of Dacca, and is vested with the powers of a Magistrate of the third class.

The 25th January 1890.—Baboo Satkari Haldar, B.L., is appointed to act as a Munsif in the district of Jessore, to be ordinarily stationed at Bagirhat, during the absence, on leave, of Baboo Gopi Krishna Banerjee, or until further orders.

The 28th January 1890.—Mr. W. Warden, Collector of Customs, Chittagong, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

Baboo Poorna Chunder Roy, Deputy Magistrate, Furreedpore, is vested with powers under section 110 of Act X of 1882 (the Code of Criminal Procedure).

Baboo Poorna Chunder Chatterjee, Deputy Magistrate, Maldah, is vested with powers under sections 110, 133 and 186 of Act X of 1882 (the Code of Criminal Procedure).

Baboo Bejoy Kishore Thakurta and Baboo Mohesh Chandra Das are appointed to be Honorary Magistrates of the Bench at Manickgunge, in the district of Dacca, and are vested with the powers of a Magistrate of the third class.

Sayad Badrul Husan is appointed to be an Honorary Magistrate of the Jhaoogunge Bench, in the district of Patna, and is vested with the powers of a Magistrate of the third class.

The undermentioned Honorary Magistrates, who are attached to the Jamui Bench, in the district of Monghyr, are vested with the powers of a Magistrate of the second class:—

Maharajah Ravaneshwar Prosad Singh Bahadoor.
Baboo Hur Prosad Singh.
" Hurbuns Narayan Singh.

The following gentlemen are appointed to be Honorary Magistrates of the Saidpore Bench, in the district of Rungpore, and are vested with the powers of a Magistrate of the third class:—

Revd. R. Nasel. | Mr. P. A. Jordan.

Baboo Sarat Chundra Pal, B.L., is appointed to act as a Munsif in the district of Burdwan, to be ordinarily stationed at the Sudder station of that district, during the absence, on leave, of Baboo Sham Kissore Bose, or until further orders.

The undermentioned Honorary Magistrates, who are attached to the First General Bench at the Sudder station of the Hooghly district, are vested with the powers of a Magistrate of the first class—

Baboo Lolit Mohun Sing. | Baboo Okhoy Chunder Sirkar.
Sahibzadah Amirooddeen Mahomed.

Dr. K. D. Ghose, Honorary Magistrate of the Khulna Bench, is vested with the powers of a Magistrate of the second class.

Baboo Bidhu Bhusan Banerjee, Honorary Magistrate of the Satkhira Bench, in the Khulna district, is vested with the powers of a Magistrate of the second class.

Mr. J. S. Douglas, Joint-Magistrate and Deputy Collector, Gya, is vested, under section 407 of the Code of Criminal Procedure, with power to hear appeals from convictions by Magistrates of the second and third classes.

Mr. L. P. Shirres, Officiating Joint-Magistrate and Deputy Collector, Lohardugga, is vested with powers under section 133 of Act I (B.C.) of 1879.

Mr. Shirres is also vested, under section 407 of the Code of Criminal Procedure, with power to hear appeals from convictions by Magistrates of the second and third classes.

Mr. Ibrahim Ahmed, Barrister-at-Law, is appointed to act as an Additional Munsif in the district of Bhagulpore, to be ordinarily stationed at the Sudder station of that district.

ERRATA.—*The 25th January* 1890.—With reference to the order dated the 18th December 1889, published in the *Calcutta Gazette* of the 25th idem, appointing Mr. C. A. Shillingford as an Honorary Magistrate of the Independent Bench at the Sudder station of the Purneah district, *for* "Mr. C. A. Shillingford" *read* "Mr. C. J. Shillingford."

The 27th January 1890.—In the notification of the 21st instant, published in the *Calcutta Gazette* of the 22nd idem, appointing Moulvi Mohomed Nasurul Huq, Officiating Munsif, Behar, Shahabad, to be a substantive *pro tempore* Munsif in Chota Nagpore, to be ordinarily stationed at Lohardugga, *for* "Behar" *read* "Buxar"

GRANTS OF LEAVE TO MUNSIFS.—*The 22nd January* 1890.—Baboo Gopi Krishna Banerjee, Munsif of Bagirhat, in the district of Jessore, is allowed leave for two months, under article 369 of the Civil Service Regulations, with effect from the 1st February 1890, or from the date on which he may be relieved.

The 22nd January 1890.—Baboo Karunamoy Banerjee, Munsif of Jessore, is allowed leave for thirty days, viz., three days under article 309 of the Civil Service Regulations, and the remaining twenty-seven days under article 306 (*b*) of the same Regulations, with effect from the 29th December 1889.

The 24th January 1890.—Baboo Sham Kissore Bose, Munsif of Burdwan, is allowed leave for thirty-seven days, viz., seven days under article 309 of the Civil Service Regulations, and the remaining period under article 306(*b*) of the same Regulations, with effect from the 5th February 1890, or from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[First Publication.]

NOTIFICATION.

The 21st January 1890.—Under section 2 of Act II (B.C.) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming houses), the Lieutenant-Governor is pleased to authorize the extension, from the 1st February 1890, of the provisions of the said Act to the villages of Saidpore and Kuja Saidpore (commonly known as the town and bazar of Saidpore), within the jurisdiction of the police-station of Nilphamari and the district of Rungpore. The boundaries of the tract within which the said Act shall be in force are as follows:—

North—A straight line drawn from the Saidpore Rifle Range to Penduram Bairagi's house

South—A straight line drawn from the east of Baboopara to the village road east of Nanku Havildar's parah.

East—A straight line drawn from Penduram Bairagi's house to the east of Babooparah.

West—A straight line drawn from the village road east of Nanku Havildar's parah to the Saidpore Rifle Range.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[First Publication.]

NOTIFICATION.

The 22nd January 1890.—It is hereby notified that the Lieutenant-Governor authorises the extension of the provisions of section 34 of Act V of 1861 to the town comprising the places known as Makundprosad, Jagarsing and Gurujang, in the district of Pooree, within the boundaries noted below, with effect from the 1st April 1890—

Bounded on the north by Tangiapara, Nuagan, Kumbharbast and Kunjiama; on the south by Sanpala, Khorda, and Jagannathpur; on the east by Bartola and Kholadwar; on the west by Sardhapur.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—It is hereby notified that the Lieutenant-Governor authorizes the extension of the provisions of section 34 of Act V of 1861 to Sarjankanda, Binodpur, Madhab Lakhikol, Pakuria, Charpara, and Urakanda, in the sub-division of Goalundo, Rajbari, within the boundaries specified below, with effect from the 1st February 1890—

FIRST.

Binodpur and Sarjankanda.

Bounded on the—

North—By the footpath north of Bhajon's tank and the Binodpur village road crossing the Railway line up to Raja Surja Kumar's Institution and tank.

East—By the Charitable dispensary, engine-shed, Government telegraph office, and the footpath leading from the Railway line and passing by Railway employes and pleaders' houses to the footpath on the south of Ram Chand Chakravarty's house.

South—By the footpath from the house of Ram Chand Chakravarty across Faridpur road and then by the Baniaboha road up to the wooden bridge

West—By a line skirting Bhavanipur *bil* across the Railway and round Daserdangi and so to a footpath north of the Bhajon's tank.

SECOND.

Madhab Lakhikol, Pakuria, Charpara, and Urakanda.

North—By the khal and the river Padma.

East—By Delundi and Sabar.

South—By the footpath leading from Bhoydia to the Lakhikol road and Sonakandor village.

West—By the Lakhikol road and the village Sonakandor.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—The Joint Sub-Registry Office at Chaprasir Hât in the sub-district of Fenny, in the district of Noakhally, is removed from its present site at Chaprasir Hât to Buktar Munshi's Hât.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—It is hereby notified, under the provisions of section 15 of Act V of 1861, that the villages of Bamna, Chechang, Amtali, Talser, Dewatala, Kalagachia, Safipur, Kachichira, Chota Safipur, Katakhali, Daskhali, Bukabonia, Kalikabari, Joynagore, Nizkati, Sanbarria, Jufrukalia, Kalikabari II, Gazipore, Bebaziakhali, Bara-Tabsoar, Karaitala, Kushinchira, Bhaizara, Khulpatna, Barahowla, Ajudia, Patkakhali, Ruhita, and Dhona, in the Perozepore sub-division, in the district of Backergunge, being still in a disturbed and dangerous state, owing to the existence of disputes regarding the possession of lands and collection of rents, the Lieutenant-Governor has sanctioned the retention for a further period of one year, commencing from the 15th February 1890, of a special police force of one Sub-Inspector, two head-constables, and 19 constables to be quartered in the above mentioned 30 villages for the purpose of keeping the peace between the Bamna Chowdhuries and their ryots.

2. The total cost of the force noted below will be assessed on, and levied from, the inhabitants of the villages in proportion to their respective means:—

	Rs.	A.	P.
1 Sub-Inspector, fourth grade	50	0	0
1 Head-constable, first grade	25	0	0
1 Ditto second grade	20	0	0
5 Constables, Rs. 9 each, first grade	45	0	0
7 Ditto „ 8 „ second grade	56	0	0
7 Ditto „ 7 „ third grade	49	0	0
Pensionary charges at 2 annas per rupee	30	10	0
Contingencies at 10 per cent.	24	8	0
Total ...	300	2	0
1 Sub-Inspector's boat hire	20	0	0
	320	2	0
For one year	3,841	8	0
Clothing allowance of 21 men at Rs. 4 each for one year	84	0	0
Repairs of barracks	50	0	0
Grand Total for one year ...	3,975	8	0

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—The Lieutenant-Governor sanctions, with effect from the 14th May 1889, the undermentioned changes in the district of Manbhoom:—

1*st*.—The outpost at Gobira, subordinate to thana Gobindpore, will be abolished, and its jurisdiction merged in that of thana Gobindpore.

2*nd*.—The outpost at Kotaldi, subordinate to thana Topchanchi, will be abolished, and its jurisdiction merged in that of thana Topchanchi.

3*rd*.—The outpost at Kashipore, subordinate to thana Gourandi, will be abolished, and its jurisdiction merged in that of thana Gourandi.

4th.—Two new outposts will be established, one at Hura, subordinate to thana Purulia, and the other at Dhadka, subordinate to thana Barabhoom.

5th.—The thana of Joypore, of which the boundaries were defined by the notification dated the 9th February 1875, will be converted into an outpost and made subordinate to thana Jhaldah.

6th.—The villages mentioned in the list below will be transferred from the jurisdiction of thana Manbazar to that of thana Barabhoom :—

No.	NAME OF VILLAGE.	Thuk-burst No.	Name of pergunnah.	No.	NAME OF VILLAGE.	Thuk-burst No	Name of pergunnah.
1	Jaspur ...	45	Koilapal	25	Chirudihi ...	27	Koilapal.
	Sindruli ...	43	Ditto.		Radhanagar ...	32	Ditto.
	Kamra ...	42	Ditto.		Chota Talpat ...	49	Ditto.
	Chirugaroo ...	36	Ditto.		Talpat ...	29	Ditto.
5	Koyra ...	37	Ditto.		Mahulbani ...	31	Ditto.
	Jhariabad ...	38	Ditto.	30	Karmatar ...	30	Ditto.
	Churkoo ...	41	Ditto.		Puabad ...	28	Ditto.
	Barrasul ...	44	Ditto.		Bahadurpur ...	14	Ditto.
	Sursingha ...	46	Ditto.		Benko ...	15	Ditto.
10	Saranga ...	47	Ditto.		Bhaghidiha ...	12	Ditto.
	Kadia ...	40	Ditto.	35	Bhasamkata ...	13	Ditto.
	Tasgram ...	39	Ditto.		Dhobagara ...	18	Ditto.
	Birakata ...	22	Ditto.		Barkola ...	17	Ditto.
	Lalangdihi ..	23	Ditto.		Kapatdongh ...	16	Ditto.
15	Koilapal Khas ...	19	Ditto.		Paharpur ...	10	Ditto.
	Chalunia ...	21	Ditto.	40	Kukrudobar ...	9	Ditto.
	Nutandihi ...	20	Ditto.		Andharjharia ...	8	Ditto.
	Kesra and Koyradihi	35	Ditto.		Pakhurkata ...	7	Ditto.
	Shamnagar ...	34	Ditto.		Dhobanni ...	11	Ditto.
20	Kendadihi ...	24	Ditto.		Jorasal ..	6	Ditto.
	Dollonbani ...	48	Ditto.	45	Katgara ...	5	Ditto.
	Naopol ...	33	Ditto.		Simabad ...	4	Ditto.
	Khiradihi ...	25	Ditto.		Bara Karman ...	3	Ditto.
	Hargara ...	26	Ditto.		Banbahal ...	2	Ditto.
				49	Chota Karman ...	1	Ditto.

NOTE.—In the above list the names given are those of the villages as demarcated and surveyed by the Revenue Survey Department and as shown in their maps and records.

In consequence of the conversion of thana Joypore into an outpost of thana Jhaldah, and the transfer of certain villages from thana Manbazar to thana Barabhoom, the following are declared to be the revised boundaries of thanas Jhaldah, Barabhoom and Manbazar, in modification of the boundaries defined by the notification, dated the 9th February 1875, published in the *Calcutta Gazette* of the 24th idem :—

THANA JHALDAH.

On the North—The northern boundaries of pergunnahs Joypur and Jaitara, from the village of Kurkura on the west to the Gowaie Nuddee on the east; thence the Gowaie Nuddee eastward to the junction of this Nuddee with the Tusurkow Nuddee at the north-east corner of village Kosamkeari.

On the East—The boundaries of pergunnah Khaspail, from the junction of the Tusurkow Nuddee with the Gowaie Nuddee southward to the village of Gamuria.

On the South—Commencing from the village of Gamuria on the east and running westward, the boundaries of pergunnahs Khaspail, Joypur, Mokundpur, Bygoonkodar, Jhaldah, Hesla and Toorang to the boundary of the district.

On the West—The boundary of the district along the boundaries of pergunnahs Toorang, Hesla, Jhaldah and Joypur.

THANA BARABHOOM.

On the North—Thana Purulia.

On the West—Thana Chandil (formerly Inchaghor.)

On the South—The boundary of the district.

On the East—The boundaries of pergunnahs Koilapal and Barabhoom.

THANA MANBAZAR.

On the North—Thana Purulia.

On the West and South—Thana Barabhoom.

On the East—The boundary of the district along the boundaries of pergunnah Manbhoom.

NOTE.—In the above description the villages and pergunnahs named (with the exception of a portion of pergunnah Khaspail north of the Gowaie Nuddee) are included within the boundaries of the thanas to which reference is made.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Second Publication.]

NOTIFICATION.

The 18th January 1890.—Under section 2 of Act II (B C.) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming-houses), the Lieutenant-Governor authorizes the extension, from the 1st February 1890, of the provisions of sections 11 to 14 of the said Act to the town of Rampore Hât (including Brahamanigram, Kalisanra, and Khalasiparah,, in the district of Beerbhoom

2. For the purposes of the above Act, the boundaries of the place shall be as follows:

North—East Indian Railway Rifle Butts.
South—Sanghatta khal.
East—Khair tank.
West—Village Sutialla.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 27th January 1890.

No. 19.—This Department's Declaration No. 301, dated 27th August 1888, published at page 764 of the *Calcutta Gazette* of the 29th idem, for the acquisition of land for a new line and ghât to and at Sabbalpur, in village Sabbalpur, pergunnah Phulwari, zillah Patna, is hereby cancelled.

The 28th January 1890.

No. 21.—Mr. E. C Elliot, Assistant Engineer, 1st grade, Eastern Bengal State Railway, is granted three days' extension of special leave, with effect from the 8th November 1889.

No. 24.—*Promotions.*—The Lieutenant-Governor is pleased to make the following promotions in the Engineer Establishment, with effect from the date specified:—

Names.	From	To	With effect from	Nature of promotion.
Mr. J W. Johnson	Executive Engineer, 1st grade, *sub. pro tem.*	Executive Engineer, 1st grade	13th Nov. 1889 ...	Permanent.
„ J. H. Toogood	Executive Engineer, 3rd grade.	Executive Engineer, 2nd grade.	Ditto ...	Ditto.
„ T. M. L. Thompson	Executive Engineer, 3rd grade, *sub. pro tem.*	Executive Engineer, 3rd grade.	Ditto ...	Ditto.
Mr. A. S. Thomson	Assistant Engineer, 1st grade	Executive Engineer, 4th grade	Ditto ..	Ditto.
„ C. P. Warde	Assistant Engineer, 1st grade, *sub pro tem.*	Assistant Engineer, 1st grade.	Ditto ..	Ditto.

E. J. MARTIN,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 27th January 1890.

No 20.—Rai Rajkissen Banerjee, Sahib, Executive Engineer, Brahmini-Byturni Division, was on privilege leave from the 23rd January to the 23rd March 1889. This cancels Bengal Government notification No. 57 of the 25th February 1889.

The 28th January 1890.

No 22.—Rai Raj Kissen Banerjee, Sahib, Executive Engineer, brahmini-Byturni Division, is transferred to the Pooree Division.

No. 23.—Rai Annada Prasad Sarkar, Sahib, Assistant Engineer, attached to the Office of the Superintending Engineer, Orissa Circle, is transferred to the Acquapada-Jajepore Division.

J. M MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

The 28th January 1890.

No. 25.—*Notifications.*—Colonel J. M. McNeile, R E, Chief Engineer, second class, having returned from the leave on which he proceeded on the 17th July 1886, and having resumed charge of his office as Chief Engineer, Irrigation Branch, is appointed to be Secretary to the Government of Bengal, in the Public Works Department, with effect from this date.

No. 26.—With reference to the above notification, Mr. E. J. Martin, Chief Engineer, second class, is appointed to be Joint-Secretary to the Government of Bengal in the Public Works Department.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION No. 13Mne.

The 27th January 1890.—In accordance with the provisions of section 69 of Act IV of 1887, the following abstract of the estimates of receipts and expenditure of the Chittagong Port Fund for the year 1889-90 is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

Abstract of the Receipts and Expenditure of the Commissioners of the Port of Chittagong for the year 1889-90.

RECEIPTS.	1887-88.	1888-89.			1889-90.
	Actuals.	Sanctioned estimate.	Six months' actuals.	Revised estimate.	Budget estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
XVI.—Marine—					
Port dues	39,334	39,000	.....	41,500	39,000
Fees and fines—					
Water	4,757	4,000	.....	5,000	4,500
Mooring fees	10,371	10,000	.....	11,000	8,371
Licenses	107	150	.....	200	200
Moiscally toll receipts	38	....	.....	500	500
Other fees and fines	207	350	.....	225	350
Sundry receipts	1,737	2,456	.....	2,206	2,556
Total	56,551	56,136	15,172	60,631	55,477
Opening balance	.....	.....	... .	47,357 (a)	.....
GRAND TOTAL	56,551	56,136	15,172	1,07,988	55,477

EXPENDITURE.	1887-88.	1888-89.			1889-90.
	Actuals.	Sanctioned estimate.	Six months' actuals.	Revised estimate.	Budget estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
Refunds	40	100	.....	50	50
Administration	3,398	3,423	.....	3,893	10,340
Law and Justice	...	.....	.....	50	50
Police	1,171	1,200	.....	1,200	1,200
Total	4,609	4,723	.....	4,193	11,220
Establishment	1,277	1,223	.....	2,412	2,532
Vessels and boats	3,933	6,136	.....	5,719	5,827
Semaphore establishment	143	144	.....	144	144
Harbour Master's establishment	216	216	.....	216	216
Tidal observatory ditto	133	133	.....	133	133
Light-houses ditto	7,297	7,170	.....	7,045	7,045
Moiscally toll establishment	.....	.....	.....	404	420
Miscellaneous ditto	1,503	1,512	.....	1,512	1,512
Miscellaneous	18,749	4,633	.....	6,205	6,205
Total	33,351	21,108	.....	23,790	24,034
Public Works	11,547	4,750	.....	7,450	8,050
Closing balance	..	.....	.....	72,553	.....
GRAND TOTAL	49,507	30,046	8,063	1,07,988	43,284

(a)—Does not include Rs. 20,200 invested in Government securities.

NOTIFICATION—No. 18Mne.

The 28th January 1890.—In accordance with the provisions of section 50, sub-section (3) of Act X of 1889 (the Indian Ports Act), the following account of the receipts and charges of the Hospital Port Dues Fund of the Port of Calcutta for the year 1888-89 is published for general information. It should be read as a supplement to the abstract account of the receipts and charges of the Port of Calcutta and its Approaches for the year 1888-89, which was published under Notification No. 184Mne., dated the 25th November 1889, at Part I, page 969 of the *Calcutta Gazette* of the 27th idem.

J. M. McNEILE, *Col.*, R. E.,

Secretary to the Government of Bengal.

Statement of Receipts and Charges on account of the Hospital Port Dues Fund for the year 1888-89—*Final.*

	RECEIPTS.	CHARGES.																	
		CHARGES OF SICK SEAMEN SENT TO HOSPITALS.						HEALTH OFFICER—ESTABLISHMENT AND CONTINGENCIES.											
	Hospital Port Dues.	General Hospital.	Medical College Hospital.	Howrah Hospital.	Mayo Hospital.	Maintenance of seamen in the lunatic asylum.	Percentage cost of treasury establishment.	Salary of Health Officer.	Establishment.	Steam-launch and dingies.	Dooly bearer.	Contingencies.	Miscellaneous.	Postage charges.	Dockyard services and supplies.	House rent.	Travelling allowance.	TOTAL.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Balance on 31st March 1888.	78,178 9 1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,171 9 5
April 1888 ...	4,238 12 0	.....	.....	516 0 0	.....	90 0 0	.....	1,300 0 0	194 0 3	87 8 0	132 0 0	1 7 8	5 9 6	.....	.....	45 0 0	.....	2,171 9 5
May ,, ...	4,798 4 0	.....	.....	446 0 0	.....	45 0 0	.....	1,300 0 0	201 4 0	87 8 0	132 0 0	4 4 0	18 11 0	0 1 0	.....	45 0 0	.....	2,279 4 0
June ,, ...	3,337 5 0	.....	.....	507 0 0	.....	45 0 0	.....	1,300 0 0	201 4 0	87 8 0	132 0 0	4 4 0	8 3 6	.....	.....	45 0 0	.....	2,330 3 6
July ,, ...	5,204 10 0	.....	.....	515 0 0	.....	45 0 0	.....	1,383 13 10	201 4 0	87 0 0	132 0 0	4 0 0	21 7 3	.....	176 6 7	45 0 0	27 9 0	2,849 8 8
August ,, ...	4,645 2 0	.....	.....	677 0 0	43 0 0	49 5 8	.....	1,116 2 0	201 4 0	87 8 0	132 0 0	4 0 0	28 8 9	1 0 0	.....	45 0 0	.....	2,484 11 8
September ,, ...	4,409 2 0	.....	.....	386 0 0	.....	.....	283 4 5	1,300 0 0	226 15 2	87 8 0	132 0 0	7 0 0	38 10 3	.....	.....	45 0 0	.....	2,223 1 5
October ,, ...	3,342 7 0	.....	.....	441 0 0	.....	.....	.....	1,300 0 0	227 7 0	87 0 0	132 0 0	4 0 0	9 13 9	.....	.....	45 0 0	.....	2,529 9 2
November ,, ...	7,236 4 6	7,683 0 0	.....	319 0 0	.....	.....	.....	1,300 0 0	228 8 11	85 8 0	132 0 0	8 10 6	16 10 6	.....	.....	45 0 0	.....	9,818 5 11
December ,, ...	8,576 15 0	.....	.....	490 0 0	39 0 0	.....	.....	1,300 0 0	225 4 0	87 0 0	132 0 0	2 1 3	35 9 6	.....	924 11 1	45 0 0	.....	3,280 9 10
January 1889 ...	6,177 9 0	.....	826 0 0	500 0 0	.....	.....	.....	1,300 0 0	225 4 0	87 8 0	132 0 0	.....	27 15 9	.....	646 13 3	45 0 0	.....	3,799 9 0
February ,, ...	5,544 6 0	11,469 0 0	780 0 0	409 0 0	.....	.....	.....	1,300 0 0	225 4 0	87 8 0	132 0 0	.....	9 13 0	.....	158 13 5	45 0 0	.....	14,616 6 5
March ,, ...	7,598 10 1	2,061 0 0	173 0 0	314 0 0	.....	.....	260 14 8	1,300 0 0	212 0 6	86 0 0	132 0 0	.....	41 0 0	.....	477 12 2	45 0 0	.....	5,102 11 4
Total ...	62,119 6 1	21,213 0 0	1,779 0 0	5,320 0 0	82 0 0	274 5 8	544 3 1	15,599 13 10	2,569 11 10	1,044 8 0	1,584 0 0	39 11 5	264 0 0	1 1 0	2,384 8 6	540 0 0	27 9 0	53,267 10 4
																		87,090 4 10
Balance on 31st March 1889.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
GRAND TOTAL ..	1,40,297 15 2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,40,297 15 2

NOTIFICATION No. 21Mne.

The 28th January 1890.—The following abstract account of the receipts and payments of the Balasore Port Fund for the year 1888-89, which has been submitted by the Collector of Sea Customs, Balasore, for publication under section 36, sub-section (2) of Act X of 1889, is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

Abstract account of the receipts and payments with the opening and the closing balances of the Balasore Port Fund for the year 1888-89.

RECEIPTS.	Amount.	Total.	CHARGES.	Amount.	Total
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
Opening balance on 1st April 1888—			Balance at debit on 1st April 1888 ...	.....	5,291 2 0
Port receipts—			Percentage for treasury establishment	.....	86 13 0
Port dues on vessels	4,375 6 1		Light-houses—		
Contribution from Government	10,000 0 0		Establishment	1,990 4 10	
		14,375 6 1	Stores	2,303 2 8	
Fees and fines—			Contingencies	127 10 6	
Registration fees	19 0 0				4,421 2 0
Savage	0 4 0		General management—		
		19 4 0	Port Officer	3,600 0 0	
Miscellaneous—			Establishment	1,548 0 0	
Miscellaneous receipts	.....	149 13 0	Travelling allowance	228 5 0	
Sundry receipts—			Contingencies	90 11 0	
Sale proceeds of unclaimed wrecked property.	.....	21 11 6			5,467 0 0
			Vessels and boats—		
			Dockyard services and supplies ...	3,273 4 0	
			Stores	1,540 3 2	
					4,813 7 2
			Repairs—		
			Medical stores	.....	86 3 0
			Miscellaneous—		
			Miscellaneous	... ..	948 13 4
			Pensions and gratuities—		
			Pensions	.....	114 3 0
Total Receipt ..	.....	14,566 2 7			
Debit balance on 31st March 1889	... ..	6,661 9 11	Total Payments ...	.....	15,936 9 8
GRAND TOTAL ...	.....	21,227 11 0	GRAND TOTAL ...	.....	21,227 11 0

BALASORE SEA CUSTOM'S OFFICE,
The 30th December 1889.

R. CORNISH,
Collector of Sea Customs,

NOTIFICATION No. 22Mne.

The 28th January 1890.—The following communication, No. 331, dated the 21st January 1890, from the Government of Bombay, regarding the removal of quarantine at Aden and Perim on arrivals from the Arabian Coast between Lith and Lothaia, is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

No. 331, dated Bombay Castle, the 31st January 1890.

From—J. DEC. ATKINS, Esq., C.S., Acting Under-Secretary to the Govt. of Bombay, General Department.

To—The Secretary to the Government of Bengal.

IN continuation of my letter No. 2959, dated 26th July 1889, I am directed to state that, under instructions from the Government of India, the notification of the Government of Bombay, No. 2956 of the same date, which imposed quarantine at Aden and Perim on arrivals from the Arabian Coast between Lith and Lothaia, has been withdrawn.

[First Publication.]

NOTIFICATION No. 12Mne.

The 24th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 9).

AFRICA—NORTH-EAST SHORE.

GULF OF ADEN

Permanent Light-ship off Ras Marbut, Aden Harbour.

Information has been received from the Political Resident at Aden that on the 15th February the temporary Light-vessel moored off Ras Marbut, Aden, Harbour, will be replaced by the permanent Light-ship. The vessel is moored in 18 feet at low water, and shows at an elevation of 89 feet above the sea a flashing White Light visible every minute. The vessel is painted Red, but has no Red Ball at mast-head and exhibits no Red Flag during the day as stated at page 90, Chapter IV, 3rd Edition of the Gulf of Aden Pilot.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 22nd January* 1890.

[Firt Publication.]

NOTIFICATION No. 14Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 10).

AFRICA—EAST COAST.

RED SEA—WESTERN SHORE.

A light placed on the island of Difnein, Musawwa Channel.

INFORMATION has been received from the Consul-General for Italy, through the Director of Indian Marine, that a light visible at 6 miles distance, to indicate the North entry of the Musawwa Channel, has been placed on the N.-E. end of the Island of Difnein. The light is in latitude 16° 37′ 8″ N. and longitude 39° 18′ 15″ E. Arc of illumination 195 degrees, leaving a dark sector between the 65° and 250°.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[First Publication.]

NOTIFICATION No. 15Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 11).

AUSTRALIA—EAST COAST.

ULLADULLA HARBOUR.

Fixed light on Warden head, and discontinuance of pier light.

THE British Admiralty has given notice (No. 456 of 1889) that on 1st December 1889 a light would be exhibited from a light-house recently erected on Warden head, south side of entrance to Ulladulla harbour.

The light is a *fixed* White light, visible in clear weather from a distance of about 12 miles.

Position: Approximate lat. 35° 22½′ S.; long. 150° 31½′ E.

Also, that on the same date, the light (fixed *green*) previously shown from the pier head, Ulladulla harbour, would be discontinued.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[First Publication.]

NOTIFICATION No. 16Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 12).

AFRICA—EAST COAST.

ZANZIBAR ISLAND.

Fixed light on Mwana Mwana Island.

INFORMATION has been received from the British Admiralty (No. 452 of 1889) that a light is now exhibited from a light-house (construction commenced in 1881) on the north extreme of Mwana Mwana island, north-west coast of Zanzibar island.

The light is a *fixed* white light.

Position: Lat. 5° 45′ 10″ S.; long. 39° 13′ 10″ E.

NOTE.—The regular exhibition of this light should not be relied on.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[First Publicatoin]

NOTIFICATION No. 17Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)
NOTICE TO MARINERS—(No. 13).
INDIA—SOUTH.

CEYLON—EAST COAST.

A "Torpedo Buoy" placed at the entrance to Trincomalee Harbour.

THE Colonial Government of Ceylon has given notice that on and after 25th December 1889 until 28th February 1890, a Red Buoy, with a red flag and the words "Torpedo Buoy" painted on it, will be placed in the entrance to Trincomalee Harbour between Ostenburg Point and Little Sober Island, and 260 yards from the former.

The water in the triangle formed by this Red Buoy, the E. Point of Small Sober Island and Clappenburg Point, will be obstructed by mines.

All vessels should pass between the Buoy and Ostenburg Point.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[First Publication.]

NOTIFICATION No. 19Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)
NOTICE TO MARINERS—(No. 14).
BAY OF BENGAL.

BURMA COAST.

Date of alteration of Savage Island light—Port of Akyab.

WITH reference to Notice to Mariners, No. 50, dated the 31st May 1889, issued by this office, a telegraphic communication has been received from the Port Officer, Akyab, that the transfer of Savage island light, at the entrance of the Port of Akyab, will commence from the 27th instant.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 27th January* 1890.

[First Publication.]

NOTIFICATION No. 20Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 15).
BAY OF BENGAL.

BURMA COAST.

Position of a water-logged Native vessel and pieces of wreckage.

A TELEGRAPHIC communication has been received from the Port Officer, Rangoon, that the Master of the steam-ship *Euphrates* reports having passed on the 23rd instant a water-logged native vessel in latitude 15° 23′ north, longitude 94° 59′ east; also pieces of wreckage when 8 miles off Krishna light-vessel. Shipmasters are cautioned accordingly.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 27th January* 1890.

[Third Publication.]

NOTIFICATION No. 3Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 3).

JAPAN.

YEZO—SOUTH-WEST COAST.

Non-existence of Waywoda rock.

THE British Admiralty has given notice (No. 422 of 1889) of the non-existence of Waywoda (Voevoda) rock in the sea of Japan.

This rock was originally reported by the Russian corvette *Voevoda*, when proceeding from Hakodate to Peter the Great bay. It was seen at a distance of 3 miles from the ship at 7h. P.M. on 28th June 1859, during thick weather, and estimated to be about 12 feet above water; the position assigned by dead reckoning, being lat. 42° 16′ N., long. 137° 18′ E.

The rock was searched for on two occasions by French vessels of war without success prior to 1886. In September 1886, eight of Her Majesty's ships passed near the assigned position of the rock, in such a manner that an area of 40 miles in latitude and 62 miles in longitude was examined, and no sign of the rock was observed.

In June 1888, an American whaling barque reported having seen two rocks from 8 to 12 feet high, about 500 yards apart, in lat. 42° 30′ N., long. 137° 5′ E., or about 15 miles north-westward of the *Voevoda's* reported position.

Consequent on this latter report a further special search has been made by five of Her Majesty's ships on the China station throughout 7th September 1889. During this search the position of the rocks reported by the American whaling barque, as well as that of the Waywoda rock, was passed over without seeing any signs of a rock above water, or obtaining any soundings indicative of shallow ground.

After a careful review of the above circumstances, it is considered that the objects seen by both the *Voevoda* and the American whaling barque were floating, and therefore the rock has been removed from the Admiralty Charts.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[Third Publication.]

NOTIFICATION No. 4Mne.

The 7th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 4).

JAPAN.

KIUSIU—NORTH-WEST COAST.

Sunken rocks in Iki Channel, and on south coast Iki sima.

THE British Admiralty has given notice (No. 434 of 1889) of the existence of the undermentioned sunken rocks lying in Iki channel, and on the south coast of Iki sima :—

1. A rock, with a depth of 1¾ fathoms, lies near the fairway in Iki channel, with Yebosi sima light-house bearing S. 75° E., and the eastern extreme of Na sima North.
   Position, lat. 33° 42′ 35″ N., long. 129° 52′ 20″ E.
2. A rock, with a depth of 2¼ fathoms, lies in Iki channel, with the north extreme of Na sima, in line with the Watch-house on Iki sima, bearing N. 87° W, and Akasi saki, the north-east extreme of Iki sima, N. 44° W.
   Position, lat. 33° 44″ 40′ N., long. 129° 54′ 10″ E.
3. A rock, with a depth of 1¾ fathoms, lies off the south coast of Iki sima, with Ko saki bearing S. 73° W., distant 4¼ cables
   Position, lat. 33° 42′ 25″ N., long. 129° 43′ 30″ E.
4. A rock (*Tsurizone rock*), with a depth of 1¾ fathoms, lies 4¼ cables southward of Hira sima, with Ko saki bearing N. 86° E., and western extreme of Naga sima N. 7° W.
   Position, lat. 33° 41′ 35″ N., long. 129° 37′ 50″ E.

5. A rock (*Sorazone rock*), with a depth of 8¼ fathoms, and 5 cables in extent in a north and south direction, lies nearly in the fairway of the southern entrance to Go no Ura, 6 cables distant from Tskuyo sima, and with the north-west extreme of that islet in line with the north extreme of Hira sima.

Position, lat. 33° 43′ 5″ N., long. 129° 39′ 40″ E.

6. A rock (*Ozone rock*), awash at low water spring tides, is an extension of the shoal shown on Admiralty Chart No. 127, on the eastern side of entrance to Go no Ura; it lies 3½ cables from the coast of Iki sima, with the south extreme of Haru sima bearing S. 86° W., and north-east extreme of Oö sima N. 45° W.

7. The rock (*Hirase rock*) in the northern part of Go no Ura, and shown on Admiralty Charts as "Covers," lies a little westward of the position given, with Takuye sima bearing S. 27° W., distant $1\frac{6}{10}$ miles.

CAUTION.—There are many rocks and shoals near the coasts in this locality as yet not charted. Careful navigation is therefore needed.

The depths given are at low water spring tides.

(*The bearings are Magnetic, Variation 4° Westerly in* 1889).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 6th January* 1890.

[Third Publication.]

NOTIFICATION No. 5Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 5).

TASMANIA.

BASS AND BANKS STRAITS.

Intended alteration in colour of light-houses.

THE British Admiralty has given notice (No. 439 of 1889) that on 1st January 1890, or as soon after as may be, the light-houses on the coasts of Tasmania, together with those on King island and Kent group (Bass strait) and on Goose and Swan islands (Banks strait), will be painted entirely white.

At present the lower parts of the light-houses are painted white, and the upper parts red.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 11th January* 1890.

[Third Publication.]

NOTIFICATION No. 6Mne.

The 13th January 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 6).

ARABIAN SEA.

NINE DEGREES CHANNEL.

Unsuccessful search for reef reported north-east of Minikoi Island.

THE following Notice to Mariners (No. 443 of 1889), issued by the British Admiralty, is republished with reference to Nos. 80 and 85, dated, respectively, the 23rd August and 6th September last, issued by this office:—

In consequence of a reef having been stated to exist in the Nine Degrees channel, about 50 miles north-east of Minikoi island, in lat. 8° 48′ N., long 73° 40′ E., by the Master of the S.S. *Noord Braband*, August 1889, who reported it as being 8 miles in length in a south-east and north-west direction, an examination of the locality has been made by

Commander R. F. Hoskyn, R.N., in charge of the India Marine Survey, with the following result :—

The examination, carried out in the I.G.S.S. *Investigator*, and extending over three days, from 2nd to 4th November 1889, embraced the reported position of the reef between lat. 8° 35′ and 9° 5′ N., and long. 73° 15′ to 74° 0′ E. The least depth found on the suspected spot was 1,179 fathoms, gray ooze, and no indication was afforded by the soundings of the existence of shallow water. On one occasion, however, some patches of what appeared to be discoloured water were observed; but they were all examined and proved to be merely the reflection of clouds in smooth streaks of water.

Throughout the time the weather was uniformly fine, and favourable for observations, and the positions of the soundings were satisfactorily determined.

Considering the detailed nature of this examination by Commander Hoskyn, and the fact of the locality being near the track of shipping using the Nine Degrees channel, the existence of this extensive danger is considered disproved.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the* 11*th January* 1890.

[Third Publication.]

NOTIFICATION No. 7Mne.

The 13*th January* 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 7).

AUSTRALIA—EAST COAST.

PIONEER RIVER APPROACH.

Sunken rock north-eastward of Round Top island.

THE British Admiralty has given notice (No. 444 of 1889) of the existence of a sunken rock lying about 6 cables north-eastward of Round Top island, Pioneer river approach.

This rock (*Taroba rock*), with about 19 feet over it at low water, lies with the following bearings :—

Round Top island summit ...	...	...	S.W. ½ S.
Flat Top island light-house ...	...	...	West.

Position : lat. 21° 9′ 45″ S., long. 149° 17′ 50″ E.

(*The bearings are Magnetic. Variation 7° Easterly in* 1889.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the* 11*th January* 1890.

[Third Publication]

NOTIFICATION No. 8Mne.

The 13*th January* 1890.—The following Notice to Mariners is published for general information.

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 8).

AUSTRALIA—SOUTH COAST.

PORT PHILLIP ENTRANCE.

Submarine telegraph cable between Swan island and Observatory Point.

THE British Admiralty has given notice (No. 446 of 1889) that a submarine telegraph cable has been laid between Swan island and Observatory Point within the entrance to port Phillip.

The cable is laid from Swan beacon to Pope's Eye fort (situated near the white pile beacon on the south-west part of that shoal) and thence to Observatory Point.

CAUTION.—Mariners are warned that anchorage within 4 cables on either side of this cable is prohibited.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the* 11*th January* 1890.

HIGH COURT NOTICE.

CIRCULAR ORDER ISSUED BY AUTHORITY OF THE HIGH COURT OF JUDICATURE AT FORT WILLIAM IN BENGAL.

CIVIL.

No. 1, *dated the 9th January* 1890.

THE following corrections should be made in the General Rules and Circular Orders (Civil) :—

(1) At page 128, Chapter III, Rule 117, *for* "Act XXVII of 1860" *substitute* "Act VII of 1889."

(2) At pages 212 to 214, Chapter IV, *cancel* Rule 8, clauses (*a*) and (*b*).

(3) At page 241, Chapter IV, *cancel* Rule 17; and in Rule 12A, clause 2(*d*), *for* "Act XXVII of 1860" *substitute* "Act VII of 1889" (*vide* pages 47, 48 and 51 of the Addenda and Corrigenda slips for February 1882).

(4) At pages 275 and 276, Chapter V, *cancel* Rule 28, clause (*a*), with its foot-note, and clauses (*b*), (*c*) and (*d*).

(5) In the Chronological Index *cancel*—

Circular Order	No. 17 of 23rd June 1870.
General Letter	No. 8 of 27th May 1876.
Ditto	No. 14 of 4th September 1876.
Circular Order	No. 5 of 3rd March 1877.
Ditto	No. 7 of 21st February 1880.

Dates of Criminal Sessions for the year 1890.

No. of Sessions.	Day of the week.	Date
First Sessions	Monday	February, 17th.
Second ,, ...	Ditto	April, 28th.
Third ,, ...	Ditto	July, 14th.
Fourth ,, ...	Ditto	September, 1st.
Fifth ,, ...	Ditto	December, 8th.

By order,

J. G. APCAR, *Clerk of the Crown.*

HIGH COURT, CROWN OFFICE, *the 18th January* 1890.

Sheriff's Office, the 22nd January 1890.

NOTICE is hereby given that the First Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the seventeenth day of February next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ২২শে জানুয়ারি।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার ফোর্ট উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তি জন্য আগামী সন ১৮৯০ সালের ১৭ই ফেব্রুয়ারি সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিকাতার হাই কোর্টের আপন আদালত ঘরে সন ১৮৯০ সালের প্রথম ক্রিমিনেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন কয়েদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচঃ বিঃ এইচঃ টারনার, শরিফ।

IN THE COURT OF SMALL CAUSES OF CALCUTTA.

NOTICE.

THE following list of days to be observed in the year 1890 as holidays in the Court of Small Causes of Calcutta has been drawn up with the approval of the Local Government, and is published in accordance with the provisions of section 92 of Act XV of 1882 (Presidency Small Cause Courts' Act) :—

Names of holidays.	English date.	Bengali date.	Days of the week.	Number of days.
	1890.	1293.		
New Year's day	January, 1st ...	Pous, 18th ...	Wednesday ...	1
Basanta or Sree Panchami ...	„ 25th ...	Magh, 13th ...	Saturday ...	1
Dole Jattra	March, 6th ...	Falgoon, 23rd ...	Thursday ...	1
Good Friday and Easter Saturday.	April, 4th and 5th ...	Chaitra, 23rd and 24th	Friday and Saturday.	2
Mohabishal Sankranti ...	„ 12th ...	„ 31st ...	Saturday ...	1
		1297.		
Eed-ul-Fitre	May, 20th and 21st	Jaistha, 7th and 8th	Tuesday and Wednesday.	2
Empress' Birthday ..	„ 24th ...	„ 11th ...	Saturday ...	1
Dasahara Ganga Snan ...	„ 29th ...	„ 16th ...	Thursday ...	1
Eed-uz-Zoha	July, 28th and 29th	Sraban, 13th and 14th.	Monday and Tuesday.	2
Janmastomi	August, 7th ...	Sraban, 23rd ...	Thursday ...	1
Mohurrum	„ 25th to 27th	Bhadro, 10th to 12th	Monday to Wednesday.	3
Dusserah Vacation, including Mohalya, Doorga and Lukhmi Poojahs, Fateha Doaz-Dohum, Kali Pooja, Bhatriditia and Kartick Pooja.	October, 13th, to November, 15th.	Assin, 28th, to Kartic, 30th.	Monday to Saturday.	34
Juggodhatri Pooja ...	November, 20th and 21st.	Aghran, 5th and 6th	Thursday and Friday.	2
Christmas holidays ...	December, 24th to 31st.	Pous, 10th to 17th ...	Wednesday to Wednesday.	8

The above days are inclusive. All Sundays are holidays. The second day of the Hindu festival "Sree Panchami" falls on Sunday, and the Mahomedan festival Fateha Doaz-Dohum falls within the Dusserah Vacation.

GIDEON C. SCONCE,
THOMAS JONES,
K. M. CHATTERJEE,
JADU NATH ROY,
Judges, Court of Small Causes of Calcutta.

COURT OF SMALL CAUSES OF CALCUTTA, *the 23rd January* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 21st December 1889.—Babu Ram Das Mookerjea, Departmental Sub-Inspector of Schools, Nuddea (class VI), is declared to have been absent on leave for fifteen days, commencing from the 1st December 1889, under Article 294 of the Civil Service Regulations.

The 8th January 1890.—Babu Kali Kamal Chatterjea, Departmental Sub-Inspector of Schools, Furreedpore (class VI), is allowed leave of absence for three months, under Article 294 of the Civil Service Regulations, with effect from the 10th November 1889.

Babu Gobinda Chandra Dutt, Board Sub-Inspector of Schools, Furreedpore (class VII), is appointed to act as Departmental Sub-Inspector of Schools, Furreedpore, *vice* Babu Kali Kamal Chatterjea, on leave.

The 14th January 1890.—The late Babu Chandra Nath Bhattacharjea, Head Master of the Arrah Zillah School (class III), is declared to have been absent, on leave, from the 23rd to the 30th June 1889, both days inclusive, under Article 306 of the Civil Service Regulations.

Babu Baladeb Ram Jha, B A., Second Master of the Arrah Zillah School (class V), is declared to have acted as Head Master of the same institution, during the absence, on leave, of the late Babu Chandra Nath Bhattacharjea.

The 21st January 1890.—Babu Hari Mohan Sen, B.A., Second Master of the Burrisal Zillah School (class VII, and officiating in class VI), is allowed leave of absence for two months, under Article 306 (*b*) of the Civil Service Regulations, with effect from the 19th December 1889, or any subsequent date on which he availed himself of it.

Babu Syama Charan Gupta, B.A., Third Master of the Burrisal Zillah School, is appointed to act as Second Master of the same institution and in class VI, *vice* Babu Hari Mohan Sen, on leave.

Babu Rajani Kanta Ghosh, B.A., Third Master of the Dacca Collegiate School (class V), is allowed leave of absence for twenty-six days, under Article 306 (*b*) of the Civil Service Regulations, with effect from the 30th December 1889.

Babu Sadhu Charan Sil, Fourth Master of the Dacca Collegiate School (class VI), is appointed to act as Third Master of the same institution and to officiate in class V, *vice* Babu Rajani Kanta Ghosh, B.A., on leave.

Babu Dwarka Nath Bose, Seventh and Officiating Sixth Master of the Dacca Collegiate School, is appointed to act as Fifth Master of the same institution, *vice* Babu Sris Chandra Banerjea, and to act in class VI, *vice* Babu Sadhu Charan Sil.

The 27th January 1890.—Babu Suresh Chandra Deb, Eighth Assistant in the Office of the Director of Public Instruction (class VII), is appointed on probation to be Head Clerk in the Office of the Inspector of European Schools, with effect from the 1st February 1890.

Babu Sarveswar Mookerjea, Third Master of the Bogra Zillah School, is appointed to act as Second Master of the same institution and in class VII, *vice* Babu Harendra Narayan Chakravarti, B.A., promoted.

The 28th January 1890.—Babu Adhar Chandra Mookerjea, Sixth Assistant in the Office of the Director of Public Instruction (*substantive pro tempore* in class V), is allowed leave of absence for two months, under Article 291 of the Civil Service Regulations, with effect from the 1st February 1890, or any subsequent date on which he may avail himself of it.

A. CROFT, *Director of Public Instruction.*

NOTICE.

IN accordance with the Resolution of the Government of Bengal in the General Department, dated the 6th March 1886, published on page 541 of the *Calcutta Gazette* of the 31st of the same month, notice is hereby given that an examination for the admission of female students to the certificate class of the Calcutta Medical College will be held in the Theatre of that College on Tuesday, the 11th February 1890, and following days.

Hours and Subjects of Examination.

Tuesday.—English dictation, Grammar and Composition—from 1 to 4 P.M.

Wednesday.—History of England and India. Geography: General, and of India in particular—from 1 to 4 P.M.

Thursday.—Arithmetic: the first four rules, vulgar and decimal fractions, and proportion—from 1 to 4 P.M.

Candidates should apply in writing to the Principal of the Medical College, Calcutta, not later than Saturday, the 8th February, for permission to appear at the examination.

Applications for permission to reside in the Sarnamayi Hostel should be addressed to the Honorary Secretary to the Bengal Branch of the Countess of Dufferin's Fund, 36, Chowringhee, Calcutta.

A. CROFT,
Director of Public Instruction.

The 6th January 1890.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 691.—*The 23rd January* 1890.—Assistant Surgeon Durlabh Chandra Datta, a supernumerary at the Presidency, is allowed leave for two months, under article 369 of the Civil Service Regulations.

No. 693.—*The 23rd January* 1890.—Assistant Surgeon Gopal Chandra Mukerjee, M.B., Officiating Resident Medical Officer, Police Hospital, Calcutta, is appointed to act as Resident Assistant Surgeon in the Campbell Medical School and Hospital, during the absence, on leave, of Assistant Surgeon Ganes Chandra Mitra, in modification of Medical Department Notification No. 11648, dated 28th December 1889, appointing Assistant Surgeon Durlabh Chandra Datta to act in the post.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

No. 726.—*The 24th January* 1890.—Assistant Surgeon Kaliprasana Kumar is appointed to have temporary medical charge of the Demagri outpost during the absence, on leave, of Assistant Surgeon Girish Chunder Bhar, or until further orders.

No. 728.—*The 24th January* 1890.—Assistant Surgeon Girish Chunder Bhar, in medical charge of the Demagri outpost, in the Chittagong Hill Tracts, is allowed leave for nine months, under article 369 of the Civil Service Regulations.

J. M. COATES, M.D.,
For Inspector-General of Civil Hospitals, Bengal.

NOTIFICATIONS OF THE BOARD OF REVENUE.

No. 1594B.

NOTICE is hereby given that the Second Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Monday, the 3rd February 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th February 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th February 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th February 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the year 1890 about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 3rd March	1890	...	2,250	2,500	4,750
On or about Wednesday, 2nd April	,,	...	2,250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	22,500	25,000	47,500

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 30th December* 1889.

No. 113B.

NOTICE is hereby given that the Third Sale of Opium, the Provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Monday the 3rd March 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th March 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th March 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Tuesday, the 18th March 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale in the present year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Wednesday, 2nd April	1890.	..	2,250	2,500	4 750
On or about Thursday, 1st May	,,	...	2,250	2 500	4 750
On or about Monday, 2nd June	,,	...	2 250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2 250	2,500	4,750
On or about Monday, 1st September	,,	...	2 250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2 250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
Total		...	20,250	22,500	42,750

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Calcutta, the 28th January* 1890.

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 15th January 1890

DESCRIPTION OF SALT.	Government golahs.	Private golahs.	Afloat.	Total.
	Mds	Mds	Mds.	Mds.
Liverpool Punga	8,04,401	.....	2 16,021	10,20,422
Bombay Kurkutch	4,995	.....	52,177	57,172
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	7,82,888	... ..	66 375	8,49,263
Aden Kurkutch	1,15,136	.....	43,5b6	1 58,692
Hamburg salt	29,288	.....	1,44,986	1,74,274
Total ..	17,36,708	.....	5,23,115	22,59,823

By order of the Board of Revenue, L. P.,

J. SCOBELL ARMSTRONG, *Collector of Customs.*

CUSTOM HOUSE, CALCUTTA, *the 22nd January* 1890.

No. 72*A*.

NOTIFICATION.

LAND REVENUE.

(Bengal Tenancy Act)

THE HON'BLE F. M. HALLIDAY.

Dated Calcutta, the 24th January 1890.

THE price-lists of staple food-crops in the local areas of Bengal, prepared under section 39 (1) of the Bengal Tenancy Act, VIII of 1885, for the period from the 1st July to the 30th September 1889, having been approved by the Board of Revenue, are published for general information under sub-section 4 of that section.

By order of the Board of Revenue, L.P.,

C. W. BOLTON,

Offg. Secretary.

Price-list (retail) of staple food-crops in the local areas of Bengal, prepared under section 39 of the Bengal Tenancy Act (No. VIII) of 1885, for three months, from July to September 1889.

PATNA DIVISION.

1.	2	3	4	5	6	7	8	9	10
DISTRICT	Local areas.	Marts at which prices were taken	Staple food crop or crops.	Market days for the preparation of price-lists.	Quantities per rupee in seers of 80 tolahs, Company's weight.			Average price for the quarter ending 30th September 1889.	Remarks.
					July.	August.	September.		
					S. C.	S. C.	S. C.	S. C.	
	Sudder subdivision	Patna	*Makai* up-land ..	1st of each month	17 1	17 1	19 0	17 11½	
			Rice low-land ..		12 10	13 7	12 12	12 9½	
	Barh ditto	Barh	*Makai* up-land ..	Ditto ditto	Nil.	16 12	18 4	17 8	
			Rice low-land		10 0	10 12	9 12	10 2½	
	Behar ditto	Behar ...	Wheat up-land ...	Ditto ditto	14 0	15 2	16 8	14 14	
			Rice low-land . .		12 8	13 10	14 0	13 6	
	Dinapore ditto ..	Dinapore ...	Barley up-land .	Ditto ditto	15 8	18 8	18 8	17 8	
			Rice low-land .		12 0	12 0	12 8	12 2½	
	Sudder subdivision ..	Gya	Wheat up-land ..	1st Sunday of every month	16 8	16 12	15 8	16 4	
			Rice low-land ..		13 4	13 8	13 8	13 6½	
	Nowada ditto .	Nowada	Wheat up-land ..	Last Friday of ditto ..	13 0	14 0	15 0	14 0	
			Rice low-land ...		13 0	13 0	14 8	13 8	
	Jehanabad ditto	Jehanabad ..	Wheat up-land ...	1st Monday of ditto ...	15 0	15 8	15 0	15 2½	
			Rice low-land .		12 12	12 12	13 8	13 0	
	Aurungabad ditto ..	Aurungabad ..	Wheat up-land ...	1st Sunday of ditto	16 0	16 12	17 0	17 4	
			Rice low-land ...		14 8	14 8	14 10	14 8½	
	Sudder subdivision	Arrah	Wheat up-land .	1st Saturday of ditto ...	14 8	14 12	14 4	14 8	
			Rice low-land ..		13 2	12 10	13 4	13 0	
	Buxar ditto	Buxar	Wheat up-land { White	1st Thursday of ditto ...	15 0	15 0	14 8	14 13½	
			{ Red		16 0	15 8	14 12	15 6½	
ARAH ...			Rice low-land ..		12 8	12 8	12 5	12 7	
	Sasseram ditto	Sasseram	Wheat up-land ...	Ditto ditto ..	15 0	15 0	16 0	15 5½	
			Rice low-land ...		13 1	13 1	13 8	13 3½	
	Bhaboosh ditto ..	Bhaboosh ..	Wheat up-land ..	Ditto ditto ..	15 0	15 1	15 0	15 0½	
			Rice low-land ...		12 0	12 8	12 0	12 2½	
	Sudder subdivision	Muzufferpore ...	*Makai* up-land ..	30th of each month ...	Nil.	20 0	22 0	21 0	
			Rice low-land		11 0	13 0	13 0	12 5½	
PORE-	Seetamarhee ditto	Seetamarhee ..	*Makai* up-land ..	2nd Sunday of each month	Nil.	Nil.	Nil.	Nil.	
E			Rice low-land .		9 10	8 6	10 2	9 6	
	Hajeepore ditto	Hajeepore ...	*Makai* up-land ...	27th of each month . ..	16 8	Nil.	20 8	18 8	
			Rice low-land ...		11 4	11 6	14 0	12 3½	
	Sudder subdivision .	Durbhunga ..	*Murwa* up-land ...	25th of each month	16 12	17 9	23 1	19 2	
			Rice low-land		13 0	11 4	13 3	13 7½	
UNGA ...	Madhubani ditto ..	Madhubani ...	*Murwa* up-land ...	Ditto ditto ...	13 8	16 7	26 8	18 13	
			Rice low-land ...		10 14	10 14	11 8	11 1½	
	Tajpore ditto	Tajpore	*Makai* up-land ...	Ditto ditto .. .	Nil.	16 0	24 0	20 0	
			Rice low-land		11 8	11 12	12 0	11 12	
	Sudder subdivision ..	Motihari	*Makai* up-land	1st Sunday of the month ...	15 8	No sale.	No sale.	15 8	
PARUN			Rice low-land ...		10 10	10 0	11 0	10 8½	
	Bettiah ditto ..	Bettiah .	*Makai* up-land ...	1st Friday of ditto ...	Nil.	Nil.	20 0	20 0	
			Rice low-land ..		12 8	11 0	13 0	12 2½	
	Sudder subdivision .	Chuprah ...	*Makai* up-land	15th of each month	18 0	Nil.	Nil.	18 0	
			Rice low land		10 4	10 12	10 12	10 9½	
	Gopalgunge ditto	Meergunge ..	*Makai* up-land ...	1st Tuesday of each month	Nil.	Nil.	Nil.	Nil.	
			Rice low-land ..		10 8	10 13	10 10	10 9½	
	Sewan ditto	Sewan	*Makai* up land ...	1st Monday of ditto	16 12	Nil.	17 4	17 0	
			Rice low-land		Nil.	10 6	11 10	11 0	

BHAGULPORE DIVISION.

1	2	3	4	5	6	7	8	9	10
District.	Local areas.	Marts at which prices were taken.	Staple food-crop or crops.	Market days for the preparation of price-lists.	Quantities per rupee in seers of 80 tolahs, Company's weight.			Average price for the quarter ending 30th September 1889.	Remarks.
					July.	August.	September.		
					S. C.	S. C.	S. C.	S. C.	
Monghyr ...	Sudder subdivision ...	Monghyr ...	Wheat up-land ...	7th of every month	16 1	16 0	15 4	15 12½	
			Rice low-land ...		12 5	11 15	11 13	12 0½	
	Begusarai ditto ...	Begusarai ...	Wheat up-land ..	25th of ditto	14 13	15 0	14 11	14 13½	
			Rice low-land ...		12 4	12 1	13 6	12 9	
	Jamui ditto ...	Jamui ...	Wheat up-land ...	1st Tuesday of every month	14 8	14 4	14 8	14 6½	
			Rice low-land ...		12 4	13 4	13 9	12 5½	
Bhagulpore	Sudder subdivision	Bhagulpore ...	*Makai* up-land ...	2nd Monday of each month ..	16 6	No sale.	22 4	19 5	
			Rice low-land ...		13 14	13 12	13 12	13 12½	
	Banka ditto ...	Banka ...	*Makai* up-land ...	Ditto ditto ...	No sale.	No sale.	30 0	30 0	
			Rice low-land ...		13 5	13 4	12 15	13 2½	
	Muddehpura ditto ..	Muddehpura ..	*Marwa* up-land ...	Ditto ditto ...	25 8	25 8	40 0	30 5½	
			Rice low-land ...		14 0	14 0	20 0	16 0	
	Scopole ditto ...	Scopole ...	*Marwa* up-land ...	Ditto ditto ...	20 0	21 8	35 0	25 8	
			Rice low-land ...		13 0	12 0	14 4	13 1½	
Purneah ...	Sudder subdivision	Kusba	Wheat up-land ...	Last day of the month ..	15 0	14 0	15 0	14 10½	
			Rice low-land ...		12 0	12 0	12 0	12 0	
	Arrareah ditto ...	Arrareah ...	Wheat up-land ...	Last market day of each month.	16 0	14 0	15 0	15 0	
			Rice low-land ...		12 0	12 0	14 0	12 10½	
	Kissengunge ditto ...	Kissengunge ..	Wheat up-land ...	Ditto ditto ...	13 0	13 0	12 0	12 0	
			Rice low-land ...		12 0	16 0	10 0	12 10½	
Maldah ...	District of Maldah ...	Rahanpur ...	Rice	2nd Monday of each month ...	13 14	14 5	13 0	13 0½	

CHITTAGONG DIVISION.

Chittagong ...	Sudder subdivision	Chittagong ...	Rice	2nd market day of each month	12 0	13 12	13 15	12 14½
	Cox's Bazar ditto	Cox's Bazar ...	Do.	Ditto ditto ...	11 0	11 0	13 0	11 10½
Noakhally ...	Sudder subdivision	Kalitara Hat ...	Rice	Last Monday of each month ..	12 0	13 0	13 0	13 10½
	Feuny ditto	Feuny Hat ...	Do.	Ditto ditto ...	13 10	12 14	14 15	13 13
Tipperah ...	Sudder subdivision	Commillah ...	Rice	1st market day of the month	14 0	14 0	11 0	13 0
	Brahmunberiah ditto	Brahmunberiah ...	Do. ... Amun	Ditto ditto	14 3	13 3	11 3	13 10
			Aus	.....	Nil	14 3	12 5	13 4
	Chandpore ditto	Chandpore ...	Do.	Ditto ditto ...	12 0	14 12	12 5	13 0½

BURDWAN DIVISION.

Burdwan ...	Sudder subdivision	Burdwan	Rice	18th of every month	13 2	13 11	13 14	13 9
	Raneegunge ditto	Raneegunge ...	Do.	17th of ditto	13 12	14 8	16 6	14 14
	Cutwa ditto	Cutwa	Do.	Wednesday which immediately precedes the 15th, or falls on the 15th of each month.	14 0	14 0	13 7	13 13
	Culna ditto	Culna	Do.	17th of every month	13 14	13 0	13 14	13 14½
Midnapore ...	Sudder subdivision ...	Midnapore ...	Rice	2nd Saturday of every month	15 10	15 0	15 8	15 6
	Ghattal ditto ...	Ghattal	Do.	1st of each month	14 8	15 9	16 13	15 10
	Tumlook ditto ...	Tumlook	Do.	3rd Wednesday of every month	13 5	12 3	12 13	12 12½
	Contai ditto ...	Contai	Do.	25th of each month	15 7	14 4	17 4	15 10½
Beerbhoom ...	Sudder subdivision ...	Soury	Rice	23rd of each month	13 8	14 4	16 0	14 9½
	Rampore Hat ditto ...	Rampore Hat ...	Do.	1st market day after the 15th of each month.	12 0	13 0	14 1	13 0½

BURDWAN DIVISION—*concluded.*

1	2	3	4	5	6	7	8	9	10
District.	Local areas.	Marts at which prices were taken.	Staple food-crop or crops.	Market days for the preparation of price-lists.	Quantities per rupee in seers of 80 tolahs, Company's weight.			Average price for the quarter ending 30th September 1889.	Remarks.
					July.	August.	September.		
					S. C.	S. C.	S. C.	S. C.	
Hooghly ...	Sudder subdivision	Hooghly	Rice	2nd Thursday of each month	10 15	13 11	13 0	12 8½	
	Serampore ditto ..	Bhuddessur ..	Do.	Ditto ditto ..	12 0	12 8	12 2	12 3½	
	Jehanabad ditto ...	Jehanabad ...	Do.	Ditto ditto	13 14	15 9	14 8	14 10½	
	Howrah ditto ...	Moharee	Do.	Ditto ditto ..	11 13	13 0	12 0	11 15	
	Uluberiah ditto ...	Uluberiah	Do.	Ditto ditto ...	13 4	13 0	13 0	13 13	
Bankoora ..	Sudder subdivision ...	Bankoora ...	Rice	30th of the month	16 9	15 5	16 0	15 15½	
	Bishenpore ditto ...	Bishenpore ...	Do.	Ditto	18 12	17 0	17 0	17 9½	

RAJSHAHYE DIVISION.

Rajshahye ...	Sudder subdivision ...	Beaulcah	Rice	Last Friday of every month	12 0	12 12	12 0	12 4	
	Nowgong ditto ...	Nowgong	Do.	Last Wednesday of every month.	14 13	13 3	13 8	13 14½	
	Nattore ditto ...	Nattore	Do.	Last day of every month ..	14 4	13 2	12 6	13 4	
Pubna ...	District of Pubna ...	Pubna	Rice	1st Tuesday of every month ...	13 11	13 8	12 15	13 6	
Rungpore ...	Sudder subdivision	Rungpore ...	Rice .. Amun ...	2nd Saturday of every month	14 2	13 9	10 2	12 9½	
			Aus		Nil	Nil	14 2	14 2	
	Nelphamari ditto ...	Nelphamari ...	Do. ... Amun ...	2nd Wednesday of every month.	13 5	13 1	12 1	12 7½	
			Aus ...		Nil	17 2	15 5	16 3½	
	Kurigaon ditto ...	Kurigaon	Do. ... Amun ...	4th Saturday of every month	13 8	13 8	13 8	13 8	
			Aus ...		16 8	16 8	18 0	17 0	
	Gyabanda ditto ...	Gyabanda	Do.	1st Friday of every month ...	12 0	11 6	11 4	11 8½	
Dinagepore ...	District of Dinagepore .	Railway Bazar Hat.	Rice	1st Sunday of every month ..	12 7	14 6	15 0	13 15	
Bogra	District of Bogra ...	Bogra	Rice	1st market day after the 1st of each month.	15 0	15 0	12 0	14 0	

DACCA DIVISION.

Dacca	Sudder subdivision	Dacca	Rice	1st Sunday of every month ...	13 4	13 2	14 4	13 8½	
	Narsingunge ditto ...	Muddergunge ...	Do.	Monday following the Sunday selected for Mirkadim.	13 9	13 6	11 5	12 12	
	Maniekgunge ditto ...	Maniekgunge ...	Do.	1st Sunday of every month ...	13 5	13 7	12 10	13 2	
	Munshigunge ditto...	Moonshir Hat ...	Do. .. Amun ...	1st Saturday of every month	13 9	13 12	11 11	13 0	
			Aus ...		Nil	Nil	12 5	12 5	
		Meerkadim ...	Do. ... Amun ...	1st Sunday of every month	13 9	13 6	11 6	12 12½	
			Aus ...		Nil	Nil	12 12	12 12	
Furreedpore	Sudder subdivision	Furreedpore ...	Rice	2nd Wednesday of every month.	13 0	13 4	11 9	11 15	
	Goalundo ditto ...	Goalundo ...	Do.	1st ditto ditto ...	11 10	11 10	11 0	11 6½	
	Madaripore ditto ...	Madaripore ...	Do.	2nd Saturday of every month	13 0	12 8	11 0	12 2½	
Mymensingh	Sudder subdivision	Nasirabad ...	Rice	2nd market day on the 3rd week of every month.	13 8	10 8	1 0	11 5½	
	Tangail ditto ...	Kagmari ...	Do.	Last market day of each month.	16 4	12 1	10 15	13 1½	
	Jamalpore ditto ...	Jamalpore ...	Do.	1st Saturday of every month ..	13 5	12 13	1 5	12 8½	
	Kishoregunge ditto ...	Kishoregunge ...	Do. Amun ...	3rd Thursday of each month	14 4	12 3	9 15	12 2	
			Aus ...		15 9	14 1	11 11	13 12½	
	Netrokona ditto ...	Netrokona... ...	Do. Amun ..	1st Saturday of each month	17 4	13 5	10 5	13 10	
			Aus ...		Nil	16 0	11 0	13 5	
Backergunge	Sudder subdivision	Burrisal	Rice	Saturday, 2nd week of the month.	11 4	11 4	10 8	11 0	
	Patuakhally ditto	Patuakhally ...	Do.	Tuesday ditto ...	11 8	11 3	12 0	11 9	
	Perosepore ditto	Perosepore ...	Do.	Ditto, ditto ...	12 6	11 8	10 11	11 8½	
	Dakhin Shabazpore subdivision.	Bhola	Do.	Monday, 3rd week of the month.	13 0	11 7	14 0	12 13	

PRESIDENCY DIVISION.

1	2	3	4	5	6	7	8	9	10
District.	Local area.	Mart at which prices were taken.	Staple food-crop or crops.	Market days for the preparation of price-lists.	Quantities per rupee in seers of 80 tolahs, Company's weight.			Average price for the quarter ending the 30th September 1890.	Remarks.
					July.	August.	September.		
					S. C.	S. C.	S. C.	S. C.	
Moorshedabad.	Sudder subdivision	Berhampore	Rice	20th of every month	13 3	12 8	12 13	12 13½	
	Lalbagh ditto	Lalbagh	Do.	1st Monday of each month	13 0	13 0	10 10	12 3½	
	Kandi ditto	Kandi	Do.	4th Saturday ditto	14 0	16 0	16 0	15 5½	
	Jungypore ditto	Jungypore	Do.	1st Tuesday ditto	13 0	12 8	12 8	12 10½	
Nuddea	Sudder subdivision	Gouree	Rice. Amun	3rd Wednesday of each month.	12 12	12 8	13 0	12 12	
			Aus		Nil.	13 12	12 12	13 4	
	Ranaghat ditto	Ranaghat	Do. Amun	3rd Monday ditto	13 5	13 14	13 5	13 8	
			Aus		14 8	14 8	14 8	14 8	
	Meherpore ditto	Kaliahazar	Do. Amun	Ditto ditto	13 0	13 0	12 0	12 10½	
			Aus		15 0	15 0	14 0	14 10½	
	Chuadanga ditto	Chuadanga	Do. Amun	3rd Saturday ditto	12 8	12 8	12 8	12 8	
			Aus		13 0	13 0	13 0	13 0	
	Kooshtea ditto	Bahadurkhali	Do. Amun	3rd Monday ditto	13 15	13 2	13 0	12 11	
			Aus		Nil.	Nil.	13 8	13 8	
Jessore	Sudder subdivision	Jessore	Rice... Amun	Monday, 2nd week of every month.	12 13	12 13	11 10	12 6½	
			Aus		13 7	12 14	11 10	12 9½	
	Narail ditto	Narail	Do. Amun	Thursday, ditto	12 11	Nil.	Nil.	12 11	
			Aus		13 11	13 7	13 7	13 8	
	Magoorah ditto	Magoorah	Do. Amun	Ditto, ditto	12 6	11 13	Nil.	12 1½	
			Aus		13 2	12 15	12 12	12 15	
	Jhenidah ditto	Sulkupah and Jhenidah.*	Do.	Saturday and Thursday, 2nd week of every month.	12 13	13 13	12 2	12 9½	* From 8th Aug. 1889
	Bongong ditto	Bongong	Do. Amun	Monday, ditto	12 2	12 9	11 0	11 14½	
			Aus		16 0	14 8	13 9	14 11	
24-Pergunnahs.	Sudder subdivision	Chotla Hát	Rice	2nd Wednesday of every month.	11 10	11 14	11 4	11 9½	
	Barasat, Dum-Dum, and Barrackpore subdivisions.	Barasat	Do.	Last Friday of each month	13 0	12 8	12 8	12 10½	
	Diamond Harbour subdivision.	Mugra Hát	Do.	2nd Thursday of every month	13 5	12 12	13 5	13 2	
	Bussirhat subdivision	Baduria Barson	Do.	2nd Tuesday ditto	13 8	13 8	13 0	13 5½	
Khoolna	Sudder subdivision	Khoolna	Rice	1st Wednesday ditto	13 11	13 11	12 12	13 6	
	Satkhira ditto	Satkhira	Do.	1st Tuesday ditto	12 3	12 3	11 2	11 13½	
	Bagirhat ditto	Bagirhat	Do.	1st Wednesday ditto	13 4	13 0	12 8	12 14½	

Notification under Section 30 of Act XII of 1882 (The Indian Salt Act).

IN exercise of the powers conferred by the second paragraph of notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67-72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorises the person named below to exercise the powers of a Salt Revenue officer:—

Locality.	Name.	Rank.	Powers to be conferred.	REMARKS.
Basudebpur Circle	Chandra Mahanty.	Peon, third grade	Salt Revenue Officer.	*Vice* Monogobind Mahanty who has forfeited his appointment.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), *Madras, the 18th January* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that the following gentlemen have been elected at the recent general election as members of the several Local Boards in the district of Moorshedabad :—

Local Boards.	Thannas.	Names of persons elected.
Sudder ...	Gowas	Baboo Hari Kristo Mazumdar.
		„ Kanai Lal Banerjee.
	Jellinghi	Baboo Hari Lal Goswami.
		„ Radha Krishna Singh.
	Hariharpara	Baboo Jogendranarain Choudhuri.
Lalbagh	Nobogram	Baboo Kedarnath Mukerjee.
	Bhagwangola	Baboo Chundra Sikhar Roy.
Kandi	Bharatpur	Munshi Zillar Rahman, *alias* Rajamian.
		Maulavi Muhiuddin Hosain.
		„ Mehendi Hosain.
	Barwan	Baboo Shib Kristo Ghosh.
		„ Benode Lal Chakrabarty.
	Gokarna	Baboo Madhu Sudan Roy Choudhuri.
Jungipur	Dewansarai	Baboo Harish Chundra Roy.
	Raghunathgunge	Baboo Sitanath Roy.
		Munshi Mobaruk Hosain.
	Suti	Baboo Kissen Lal Singha.
		„ Bisweswar Miser.
	Shumsergunge	Baboo Bhogobutty Churn Roy.
		„ Potiram Banerjee.
	Mirzapur	Baboo Anath Bandhu Chattarjee.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., *the 21st January* 1890.

NOTIFICATION.

WHEREAS under Government notification of the 29th March 1887, the thanna of Kandi and its outpost Burwan, in the district of Moorshedabad, have been converted into two thannas, respectively, known as Kandi and Burwan, it is hereby notified, in modification of the notification of the 18th May 1886, published at pages 808 and 809 of Part II of the *Calcutta Gazette* of the 19th idem, that the three members assigned for election in the Kandi thanna of the Kandi Local Board have, under paragraph 19 of the Election Rules under the Local Self-Government Act, 1885, been re-distributed as follow :—

Thanna Kandi	...	...	...	1
„ Burwan	...	...	...	2
		Total	...	3

A. SMITH, *Commissioner.*

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27 of Act III (B.C.) of 1884 on Saturday, the 28th December 1889, Baboo Kali Prosunno Chatterjee has been elected a Commissioner for Ward No. II of the Cutwa Municipality, in the district of Burdwan, *vice* Baboo Golap Chand Shaha, deceased.

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 24th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27 of Act III (B.C.) of 1884 on Monday, the 30th December 1889, Baboo Bhupati Bhattacherjee has been elected a Commissioner for Ward No. V of the Chandrakona Municipality, in the district of Midnapore, *vice* Baboo Barada Prosad Sarker, deceased.

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR.'S OFFICE, *the* 17*th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that the following gentlemen have been appointed to be members of the Managing Committee of the second class Charitable Dispensary at Chattra, in the district of Hazaribagh :—

Baboo Aughore Nath Chatterjee. | Baboo Bisun Chand Saha.

RAI CHURN GHOSE, *Personal Asst. to the Commr., for Commr. of Chota Nagpore.*

DATED RANCHEE, *the* *January* 1890.

The Calcutta Gazette.

WEDNESDAY, JANUARY 29, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders issued by the Government of India in the Home Department are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS—ESTABLISHMENTS.

Calcutta, the 20th January 1890.

No. 36.—Mr. C. T. Metcalfe, C.S.I., has been permitted to resign Her Majesty's Bengal Civil Service, with effect from the 29th October 1889.

POLICE.

The 22nd January 1890.

No. 69.—The services of Mr. S. N. Walker, Assistant Superintendent of Police, Bengal, were placed at the disposal of the Chief Commissioner of Assam, with effect from the 30th December 1889.

A. P. MACDONNELL,
Secretary to the Govt. of India.

The following orders issued by the Government of India, Department of Finance and Commerce, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS.

ACCOUNTS AND FINANCE.

LOANS, &C.

The 24th January 1890.

No. 417.—In exercise of the powers conferred by section 5 of the Local Authorities Loan Act XI of 1879, the Governor-General in Council directs the cancellation of the following words in rule 2 of the Rules for the grant of loans to Local Authorities by the Government, published in the Notification in this Department, No. 15, dated the 1st January 1889, namely, ' and (6), ' Local Board ' includes a District Board and District Council, and any body having like authority beyond the local limits of municipalities and cantonments "

Rule 5 of the same Rules is also cancelled.

The 23rd January 1890.

No. 396.—Mr. I. C. Bose having been relieved of the office of Assistant Comptroller-General in charge of the Outside Audit Department by Mr. R. N. Ray, is re-transferred to the office of the Accountant-General, Bengal.

E. J. SINKINSON,
Secretary to the Government of India.

The following order issued by the Government of India in the Military Department is republished for general information.

JOHN FDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 24th January 1890.

FURLOUGH AND LEAVE.

No. 76.—The undermentioned Warrant Officer is granted leave to proceed out of India on medical certificate under the Leave Rules published in clause 187, India Army Circulars, 1889; the leave to have effect in India from the date of being struck off duty till the date of sailing; the specified period to count from date of leaving India :—

First grade Apothecary W. A. Williams, for one year.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, JANUARY 29, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 22nd January 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election, by the members of the Mozufferpore Local Board, in the district of Mozufferpore, under section 29 of Act III (B.C.) of 1885, of Baboo Ram Prokash Lal to be their Chairman, *vice* the Executive Engineer, Tirhoot State Railway, Open Line, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 22nd January 1890.—It is hereby notified that, under section 9, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the Local Boards in the district of Rajshahye :—

Local Board of	Thana for which elected.	Names of members.
Rampore Beauleah ...	Sudder or Beauleah	Baboo Brojo Gopal Bagchi, M.A., B.L. „ Srinath Mandal.
	Pateah ...	Baboo Umesh Chandra Talapatra. „ Sarat Chandra Chowdhury.
	Charghat ...	Mr. G. W. A. Coxon. Baboo Radhica Mohan Gossami.
	Godagari ...	Baboo Dinabandhu Sanyal.
	Tanore ...	Baboo Kishori Mohun Chowdhury, M.A., B.L.
	Bagmara ...	Baboo Grish Chandra Dutt. „ Grish Chandra Chowdhury.
Nattore ...	Nattore ...	Baboo Kalikamal Maitra. „ Kedarnath Acharjea.
	Singra ...	Baboo Mohim Chandra Maitra. „ Radha Govinda Roy.
	Lalpore ...	Baboo Barada Govinda Sen. „ Kumad Nath Roy.
	Boraigram ...	Baboo Jadub Chandra Bishi. „ Hari Madhub Sarkar.
Nowgong ...	Nowgong ...	Baboo Krishna Dhon Bagchi. „ Trailakyanoth Dass.
	Manda ...	Baboo Trailakhyanoth Ghatak. „ Kali Prasad Roy.
	Panchoopore ...	Baboo Beni Madhub Saha. „ Dwarka Kant Chowdhury.

2. The following gentlemen are appointed, under section 11 of the Act, to be members of the above Local Boards :—

Local Board of	Names of members.
Beauleah	Shah Zohural Hossein. Baboo Kalinath Chowdhury. „ Nanda Lal Lalia. Mohomed Abdul Hamid Meah. Baboo Taran Krishna Mandal.
Nattore	Mr. E. A. Lang. Baboo Umesh Chandra Mittra. „ Kedar Nath Chowdhury. Moulvie Abdul Karim Khan Chowdhury.
Nowgong	Baboo Shashi Bhusan Rai. Moulvie Moojir Uddin Ahmed. Baboo Kedar Prasanna Lahiri.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th January 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Sayed Ahmad Hussein Khan to be a Commissioner of the Tikari Municipality, in the district of Gya, *vice* Mr. F. B. Hampton, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 24th January 1890.—In the notification dated 6th January 1890, published at page 5, Part IB of the *Calcutta Gazette* of the 8th idem, containing the names of the gentlemen appointed to be members of the several Local Boards in the district of the 24-Pergunnahs, *for* Baboo Khettra Gopal Das, an appointed member of the Baraset Local Board, *read* Baboo Khettra Pal Dass.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—It is hereby notified for general information that the Lieutenant-Governor intends, in the exercise of the power conferred on him by section 1 of Act V (B C) of 1880, to extend the provisions of the said Act to the Hajipore Municipality, in the district of Mozufferpore, unless good reasons are shown to the contrary within six weeks from the date of the publication of this notification within the aforesaid Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—It is hereby notified that, under section 16, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Gopal Chunder Mookerjee to be a Commissioner of the Berhampore Municipality, in the district of Moorshedabad, *vice* Baboo Sri Nath Pal, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 28th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Comillah Municipality for a public purpose, viz., for the improvement of the Charitable Dispensary, in the village of Gangchur, pergunnah Meherkul, zillah Tipperah, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 beegah 9 cottahs and 1 chittack of standard measurement, is required. The land is bounded on the North by the dispensary tank and a ditch; on the East by a municipal road; on the South by the Gumti embankment; and on the West by a ditch on the east of Hari Nath Da's house.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th January 1890.—Under rule 9 of the rules framed under section 5 of the Local Authorities Loan Act, 1879, it is hereby notified for general information that the Lieutenant-Governor intends to sanction the following application from the Commissioners of the Rampore Beauleah Municipality for a loan of Rs. 15,000 from Government, bearing interest at 4½ per cent. per annum, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the said municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

APPLICATION FROM THE MUNICIPAL COMMISSIONERS OF RAMPORE BEAULEAH FOR A LOAN OF Rs. 15,000.

1	2	3	4	5				5(e)			6							7
The work or works for the construction or repair of which the loan is required, and an estimate of the cost thereof.	The amount which it is proposed to borrow.	The fund or funds on the security of which it is proposed to borrow.	The law or laws under which the said fund or funds is or are levied, received or held.	5 (a) The period for which the loan is required.	5 (b) The number of the instalments, if any, in which it is proposed that the loan shall be taken.	5 (c) The amount of the instalments.	5 (d) The dates proposed for receiving such instalments.	THE INSTALMENTS IN WHICH IT IS PROPOSED TO REPAY THE LOAN.			A DETAILED ACCOUNT OF THE REVENUE AND EXPENDITURE OF THE LOCAL AUTHORITY FOR THE THREE LAST PRECEDING YEARS.							All existing prior charges upon the funds of the local authority.
								Principal.	Interest at 4½ per cent.	Total.	Heads of Receipts.	For 1886-87.	For 1887-88.	For 1888-89	Heads of Expenditure.	For 1886-87.	For 1887-88.	For 1888-89.	
The construction of pucca saucer-shaped drains in wards Nos. I, II and III of the Beauleah Municipality to improve the surface drainage. Rs. Cost of 19,000 r.ft. of drain . 14,440 Contingencies at 5 per cent. 722 Total 15,162	Rs 15,000	The Municipal Fund.	Act III (B C) of 1864.	Years. 20	3	Rs. 1st instalment 5,000 2nd do. 5,000 3rd do. 5,000 Total ... 15,000	Rs. 1st April 1890 5,000 1st April 1891 5,000 1st April 1892 .. 5,000 Total ... 15,000	Rs 1st Oct. 1890, 375 1st April 1891, 375 1st Oct. .. 375 1st April 1892, 375 1st Oct. .. 375 1st April 1893, 375 1st Oct .. 375 1st April 1894, 375 1st Oct. .. 375 1st April 1895, 375 1st Oct. .. 375 1st April 1896, 375 1st Oct. .. 375 1st April 1897, 375 1st Oct. .. 375 1st April 1898, 375 1st Oct. .. 375 1st April 1899, 375 1st Oct. .. 375 1st April 1900, 375 1st Oct. .. 375 1st April 1901, 375 1st Oct .. 375 1st April 1902, 375 1st Oct. .. 375 1st April 1903, 375 1st Oct. .. 375 1st April 1904, 375 1st Oct. .. 375 1st April 1905, 375 1st Oct. .. 375 1st April 1906, 375 1st Oct. .. 375 1st April 1907, 375 1st Oct. .. 375 1st April 1908, 375 1st Oct. .. 375 1st April 1909, 375 1st Oct. .. 750 Total 15,000	Rs A. P. 112 8 0 104 1 0 208 2 0 199 11 0 383 12 0 295 5 0 284 14 0 278 7 0 270 0 0 261 9 0 253 2 0 244 11 0 236 4 0 227 13 0 219 6 0 210 15 0 202 8 0 194 1 0 185 10 0 177 3 0 168 12 0 160 5 0 151 14 0 143 7 0 135 0 0 126 9 0 118 2 0 109 11 0 101 4 0 92 13 0 84 6 0 75 15 0 67 8 0 59 1 0 50 10 0 42 3 0 33 12 0 25 5 0 16 14 0 6,235 5 0	Rs. A. P. 487 8 0 479 1 0 583 2 0 574 11 0 678 12 0 670 5 0 641 14 0 633 7 0 645 0 0 636 9 0 628 2 0 619 11 0 611 4 0 602 13 0 594 6 0 585 15 0 577 8 0 569 1 0 560 10 0 552 3 0 543 12 0 535 5 0 526 14 0 518 7 0 510 0 0 501 9 0 493 2 0 484 11 0 476 4 0 467 13 0 459 6 0 450 15 0 442 8 0 434 1 0 425 10 0 417 3 0 408 12 0 400 5 0 766 14 0 21,235 5 0	Balance in hand ..	Rs. 3,877	Rs. 3,329	Rs. 1,401	Office Establishment (including contingencies, cost of stationery, cost of audit and banking.)	Rs 1,866	Rs. 2,042	Rs. 2,191	Nil.
											Taxes on houses and lands.	9,937	10,871	10,561	Collection of taxes	1,552	1,905	1,850	
											Taxes on carriages	929	946	996	Public safety (fire and lighting).	759	801	848	
											Do. on animals	483	491	486					
											Cart registration fees.	2,053	2,605	2,743	Buildings and other works.	.	32	....	
											Tolls on ferries	1,696	1,227	1,095	Repairs	..	..	19	
											Latrine rate under section 320.	3 653	4,022	4,901	Dispensary charges	2,122	3,958	3,518	
											Hackney Carriage Act.	418	422	431	Vaccination ..	162	147	157	
											Cattle Trespass Act	521	1,066	1,392	Registration of Births and Deaths	375	572	632	
											Vaccination fees ..	8	8	11	Road watering	1,049	1,019	447	
											Proceeds of land .	....	1	8	Conservancy and road cleaning	985	944	1,400	
											Income derived from markets and slaughter-houses.	36	59	179	Drainage works .	1,410	721	2,779	
											Municipal fines .	411	339	393	Other measures (improvement of tanks, &c.)	514	1,358	.....	
											Dispensary receipts	700	1,383	1,420	Markets and slaughter houses and public gardens	168	154	244	
											Rents of municipal lands, tanks, &c.	25	58	60	Works undertaken for private persons.	42	97	1,823	
											Payment by private persons.	327	228	1,261	Contribution to schools.	333	392	424	
											Receipts from public garden.	.....	.....	14	Construction and maintenance of roads, bridges, office-building and godown shed.	5,196	5,539	4,287	
											Other receipts (including burial-ground fees).	372	836	1,336	Survey of land	...	92	236	
											Total receipts ...	21,564	25,166	27,491	Other charges (ferry, cattle-pound, printing and reward).	384	663	580	
											Debt . ..	.....	..		Cleansing of latrines	3,942	4,040	4,650	
											Advances recovered .	.	1,603	4,064	Miscellaneous (including refund of over assessment).	809	664	799	
											GRAND TOTAL ...	25,442	30,938	32,956	Compensation for land.	446	754	142	
															Total Expenditure	22,113	23,854	27,005	
															Advances made		2,746	4,331	
															GRAND TOTAL ...	22,113	26,600	31,336	

JADAVESVAR ACHARJEE, *Chairman*

NOTIFICATION.

The 28th January 1890.—It is hereby notified that, under section 9, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the Local Boards in the district of Hooghly :—

Local Board of	Thana for which elected.	Names of members.
Hooghly	Hooghly	Baboo Sriram Chander Sircar.
	Pandooah	Baboo Upendra Nath Bose.
		„ Bamdeb Dutta.
	Balagurh	Baboo Chandra Narain Roy.
		Munshi Rajab Ali Mea.
	Dhoniakhali	Baboo Nerode Coomar Singh.
		„ Bani Madhub Mozumdar.
	Polba	Baboo Gokul Krishna Singh.
Serampore	Chanditalah	Baboo Srinath Koar.
		„ Harendra Krishna Mukerjea.
		„ Purumeswar Mukerjea.
	Haripal	Sheikh Mollah Jessarutulla.
		Baboo Giris Chunder Mukerjea.
		„ Kali Prasunno Mukerjea.
	Kristonagore	Moulvie Mohomed Kheber.
		Baboo Dharma Das Sing Roy.
Jehanabad	Goghat	Baboo Ishan Chunder Koar.
		„ Bhajo Hari Ghose.
	Jehanabad	Baboo Kedarnoth Nath.
		„ Charu Chundra Mitra.
	Khanacool	Baboo Harish Chundra Bhuttacharjee.
		„ Mokhum Lall Roy.

2. The Lieutenant-Governor is pleased to appoint the following gentlemen, under section 10 of the Act, to be members of the Local Boards named below :—

Local Board of	Names of members.
Hooghly	Baboo Sitanath Mookerjea.
	„ Kedarnath Sen, L M.S.
Serampore	Munshi Hesaruddin.
	Baboo Bishnu Pada Banerjea.

3. The following gentlemen are appointed, under section 11 of the Act, to be members of the Local Boards named below—

Local Board of	Names of members.
Hooghly	The Senior Uncovenanted Deputy Collector, *ex officio*.
	Baboo Giris Chunder Kar.
	Syed Abdul Mozaffar.
	Munshi Golam Mehidi.
	Baboo Jageswar Singh.
Serampore	Kumar Ramendra Krishna Deb, Deputy Magistrate and Deputy Collector.
	Baboo Kangali Churn Sircar.
	„ Narendranoth Mookerjea.
	Sheikh Golam Reisul.
	Baboo Khetranoth Roy.
Jehanabad	Baboo Hari Narain Banerjee.
	Munshi Golam Hossein Chowdhory.
	Baboo Koilas Chundra Bose.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, JANUARY 29, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

PUBLIC WORKS DEPARTMENT,—BENGAL.

DISTRICT ROAD FUND.

NOTIFICATION No. 18.

Dated the 21st January 1890.

THE subjoined annual accounts and reports of the Road Cess Committees of the districts of Hazaribagh, Lohardugga, Manbhoom and Singbhoom for the year 1888-89, together with the remarks thereon of the Commissioner of Chota Nagpore, are published for general information.

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal.

No. 58D.R., dated Hazaribagh, the 7th June 1889.

From—LIEUT.-COL. C. H. GARBETT, Chairman, District Road Cess Committee, Hazaribagh,

To—The Commissioner of Chota Nagpore.

I HAVE the honour to submit herewith a detailed account of receipts and expenditure of the District Road Fund for the year ending 31st March 1889, together with the following report on the administration of the fund for the same period.

2. During the year under report the District Committee, consisting of 24 members, held five meetings for the transaction of business, a summary of which is given below. A quorum was obtained at all the meetings.

* * * * * * * *

(1) Preparation of the schedule of all public works under sections 141 and 143 of Act IX (B.C.) of 1880 which are subject to the control of this committee for submission to Government.

(2) Distribution of village road allotments for the year 1888-89.

(3) Passing the estimate of gravelling the Ramgurh and Gola Road.

(4) Preparation of the budget estimates of receipts and expenditure for the year 1889-90.

(5) Passing the annual accounts and reports for the year 1887-88.

3. The accounts were, as usual, audited monthly by a sub-committee appointed under section 174 of the Road Cess Act.

4. *Branch Committee.*—There is only one branch committee at Giridih, which held five meetings during the year, and in which the average attendance of members was 4·2.

5. The year commenced with an arrear balance of Rs. 10,665. This, together with Rs. 46,476, the demand for the year, less the sum of Rs. 514 paid in advance in previous year, gave a total of Rs 56,627 for collection within the year under report. The collections of the year, amounted to Rs. 47,025, leaving a balance of Rs. 9,602 uncollected at its close. In addition to the above a sum of Rs. 1,437 was collected as advance collection on account of future years. The percentage of collection on current demand was 79·1. The cause of this percentage being below the standard rate was the same as reported last year, viz., the default of the Ramgurh estate to pay its last instalment of cesses, amounting to Rs. 17,614-10-5, on the 28th March 1889. This amount has since been realized.

6. *Original works.*—The only original works taken up in hand during the year under review were the construction of a third class inspection bungalow at Gola, and the gravelling of the eight miles of the road between Ramgurh and Gola. The sum of Rs. 400 shown as expended on the Burhee and Gawan road was on account of payment of arrears due to contractors for works done last year.

7. The funds at the disposal of the committee being insufficient even to keep up all the existing district roads, not to mention village roads, very little could be done by way of original works.

8. *Repairs.*—Five metalled roads, aggregating about 58 miles, have been maintained and are generally in good condition. Seventeen fair weather roads, about 302 miles, have been fairly maintained throughout the year and are fit for cart traffic. The steep gradients are gradually being improved, and the approaches down to beds of unbridged rivers and nullahs eased for wheeled traffic.

9 *Village roads.*—Thirty village roads, aggregating about 134 miles, have been repaired and made feasible for cart traffic. For want of funds no new village communications were taken up.

10. *Arboriculture.*—With the exception of filling up vacancies and maintaining existing plants, no new trees were planted during the year. The number of trees already planted (viz., 14,150) is comparatively large considering the means of this committee.

11. *Nursery garden.*—There is only one nursery in the compound of the Road Cess office, containing the following plants:—Mango, jamun, jack, neem, carounge and date, They are well looked after and are doing well.

12. *Staging bungalows and serais.*—There is only one staging bungalow at Ramgurh it yielded Rs. 291 during the year, and its maintenance cost Rs. 564-8-2, including arrear payments of last year.

There is a cart serai at Bagodar on the Grand Trunk Road. It yielded Rs. 91-10-8, and cost Rs. 268-9-9 for its maintenance. As the committee gain nothing by keeping up this serai, but pay more than what it yields, it is desirable that it be closed to prevent further loss in its maintenance. The same may be said of the Ramgurh staging bungalow.

13. The scarcity of labour in the district increases every year, and is mostly felt in the Chatra subdivision, where it has become almost impossible to procure coolies to do road work. Save in the Chatra sub-division, most of the earthwork on the roads was done during the rainy season. In the Chatra subdivision very little of the earthwork was done during the wet season, principally by reason of the dearth and difficulty of procuring labour, and partly owing to the laches of contractors.

14. A sum of Rs. 7,465-11-8 was placed at the disposal of the branch committee at Giridh. Of this sum Rs. 5,997-6-3 were spent in repairing the village roads and Rs. 199-8 in paying the cost of establishment under it, leaving a balance of Rs. 1,268-13-5 unexpended at the end of the year.

* * * * * * * *

No. 6 Part I.

HAZARIBAGH DISTRICT ROAD FUND.

Account of Income and Expenditure for the year ending 31st March 1889.

Receipts.	Amount.	Total.	Expenditure.	Amount.	Total.
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
Balance on 31st March 1888	.....	26,612 12 9	Provincial rates ... Establishment and contingencies of the office of collection	977 15 5	977 15 5
Receipts.			Administration ... Establishment and contingencies of the Committee's office	1,151 11 6	
Provincial rates ... Cess on lands	44,356 11 6		Percentage cost of establishment for offices of accounts and control ...	574 13 9	1,726 9 3
Cess on mines	4,104 6 8	48,461 2 2	Stationery ... Stationery and printing	292 13 1	292 13 1
Miscellaneous ... Rents of serais and bungalows ...	423 10 8		Public Works ... Original works	4,000 0 0	
Fees, fines, and forfeitures ...	29 4 0		Repairs	32,261 5 0	
Interest	197 15 11		Establishment	7,801 9 4	
Miscellaneous	126 1 3	776 15 10	Tools and plant	1,319 8 6	45,382 6 10
Grant from Government	2,609 15 10	2,609 15 10	Miscellaneous ... Staging bungalows—establishment and contingencies	141 1 0	
			Do —petty construction and repairs ...	692 0 11	833 1 11
			Miscellaneous	14 0 0	14 0 0
Total Revenue ...	.....	51,848 1 10	Total Expenditure ...	...	49,226 14 6
Suspense Accounts Advances	5,264 11 7		Suspense accounts Advances	7,716 15 3	
Deposits	338 0 0	5,602 11 7	Deposits	1,472 8 0	9,189 7 3
Total Receipts ...	.....	57,450 13 5	Total Disbursement ...	.....	58,416 5 9
			Balance on 31st March 1889	.....	25,647 4 5
Grand Total ...	.....	84,063 10 2	Grand Total ...	.....	84,063 10 2

Passed for Rs. 58,416-5-9 (fifty-eight thousand four hundred and sixteen, annas five and pies nine) only.

Hazaribagh,
The 5th June 1889.

Jadu Nath Mookerjee,
Bhabani Charan Mittra,
Members, Sub-Committee.

H. C. Mitter,
Vice-Chairman.

C. H. Garbett,
Chairman.

No. 6.—Part II.

HAZARIBAGH DISTRICT ROAD FUND.

Details of Income and Expenditure for the cess year ending 31st March 1889.

Sub-head of estimate.	Amount as per budget estimate.	PARTICULARS.	Amount.	Total
	Rs.	**INCOME.**	Rs A. P.	Rs A. P.
Provincial rates	42,379	Cess on lands	44,356 11 6	
	3,289	Cess on mines	4,104 6 8	
				48,461 2 2
Miscellaneous	250	Rents of serais and bungalows—		
		Collection from the Ramgurh dâk bungalow on the Ramgurh and Gola road	332 0 0	
		Collection from Bagodar cart serai	91 10 8	
				423 10 8
	150	Fees, fines, and forfeitures—		
		Record-searching fees	23 4 0	
		Fees for opening separate accounts in revenue-free estates .	6 0 0	
				29 4 0
	175	Interest on arrear collections	197 15 11	
				197 15 11
	201	Miscellaneous—		
		Sale proceeds of the Mirzagunge inspection bungalow	40 0 0	
		Ditto of unserviceable tools	84 11 0	
		Ditto of empty stationery boxes	0 12 0	
		Pay of mohurir summoned to give evidence in a civil court ...	0 10 8	
				126 1 8
Grant from Government.	500	Share of cost of establishment for collection of revenue by Government.	500 0 0	
		3-20ths of 10 per cent. collection in Government estates	2,109 15 10	
				2,609 5 10
Suspense Accounts.	.....	Advance—		
		Branch committee at Giridih	4,094 1 9	
		Deputy Collector, Cess Department	870 9 10	
	.....	Deposits—		5,264 11 7
		Taruk Nath Banerjee	50 0 0	
		Issur Chunder Dey	56 0 0	
		Rangoo Sahu	38 0 0	
		Bhookhoo Ram	98 0 0	
		Nando Mistry	25 0 0	
		Gunput Ram	25 0 0	
		Shekh Ghowsey	37 0 0	
				338 0 0
		Total Receipts ...	.....	57,450 13 5
		EXPENDITURE.		
Provincial rates	1,200	*Establishment and contingencies of the office of collection.*		
		Establishment—		
		1 Head clerk at Rs. 70 per month for 2 months and 11 days ...	164 13 4	
		1 Ditto ,, 50 ,, for 9 months and 20 days ...	462 4 1	
		1 Mohurir ,, 20 ,, for 12 months ...	240 0 0	
		1 Peon ,, 5 ,, for 11 months and 5 days ...	55 14 0	
				942 15 5
		Contingencies—		
		1 Punkha puller	3 0 0	
		1 Sweeper	3 12 0	
		Postage	1 2 0	
		Municipal tax on office building	22 8 0	
		Cost of proclaiming notices	4 10 0	
				35 0 0
Administration	1,170	*Establishment and contingencies of the Committee's office.*		
		Establishment—		
		1 Clerk at Rs 35 for 12 months	420 0 0	
		Allowance to cess head clerk for performing the accountant's duties at Rs. 30 per month for 12 months	360 0 0	
		1 Clerk at Rs. 15 for 12 months ... . Rs A. P. 180 0 0		
		Deduct fine ... 0 8 0		
		179 8 0		
			179 8 0	
		1 Orderly peon at Rs. 5 for 12 months	60 0 0	
				1,019 8 0
		Contingencies—		
		Municipal tax on office building	22 8 0	
		Sweeper	5 4 0	
		Punkha-puller	17 8 8	
		Postage stamps	41 8 0	
		Receipt stamps	22 0 0	
		Subscription to the *Calcutta Gazette*	20 0 0	
		Ground rent of the office building for 1888 89	3 9 4	
		Price of dusters	0 4 0	
				133 3 6
	715	Percentage cost of establishment for offices of accounts and control.	574 13 9	
				574 13 9
Stationery ...	.....	Stationery and Printing—		
		Stationery	62 8 9	
		Printing	230 4 4	
				292 13 1

Number of roads.	*Original Works.*	Total sanctioned cost.	Outlay to end of the year.		
Public works	7	Burhee and Gawan road—	Rs.	Rs. A. P.	
		Earthwork, including dressing	19,631	18,471 13 3	400 0 0
		Culverts		288 11 3	. . ..
		Kodurmah bungalow ...		396 3 3	.....
	8	Ramgurh and Golah road—			
400	.....	Construction of a third class inspection bungalow at Golah	400	400 0 0	400 0 0
3,200	... ..	Gravelling the Ramgurh and Golah road	3,200	3,200 0 0	3,200 0 0
		Total Original Works ...	.....	.....	..... 4,000 0 0
.		Carried over ...	.....	.....	..... 6,997 8 9

Sub-head of estimate.	Amount as per budget estimate.	Number of roads.	PARTICULARS.		Amount.	Total.
	Rs.		EXPENDITURE—*continued.*		Rs. A. P.	Rs. A. P.
			Brought forward ...		.....	6,997 5 9
			Repairs.	Rs. A. P.		
Public Works —(*contd.*)	6,286	1	Chuttra and Chowparan road—			
			Road	3,255 0 11		
			Inspection bungalow at Pitis ...	48 0 0		
			Ditto at Chuttra ...	61 8 0		
			Trees	5 0 0	3,369 8 11	
	1,726	6	Baloomath and Sherghotty road—			
			Road	162 12 10		
			Jabra inspection bungalow	48 7 0		
			Huntergunge inspection bungalow ...	48 0 0		
			Trees	107 6 3	366 10 1	
	1,973	3	Hazaribagh and Chuttra road—			
			Road	1,182 8 8		
			Lepo inspection bungalow	48 0 0		
			Trees	133 11 0	1,363 3 8	
	1,367	7	Burhee and Gawan road—			
			Road	719 7 4		
			Kodermah inspection bungalow ...	276 13 9	995 5 1	
	186	22	Peharpur and Bagodar road—			
			Bhurkutta inspection bungalow ...	163 3 4	163 3 4	
	4,185	4	Giridih and Khurruckdiha road—			
			Road	3,685 2 10		
			Khurruckdiha inspection bungalow ...	114 10 3		
			Pachumba ditto ditto ...	48 0 0		
			Trees	112 7 2	3,960 4 3	
	1,466	8	Ramgurh and Golah road—			
			Road	1,223 6 8		
			Trees	93 5 9	1,316 12 2	
	896	9	Golah and Puttridih road—			
			Road	715 6 3		
			Trees	83 1 3	798 7 6	
	1,762	2	Hazaribagh station roads—			
			Road	1,077 0 6		
			Trees	486 14 9	1,563 15 3	
	1,015	5	Old Benares road—			
			Road	949 2 11		
			Trees	59 0 0	1,008 2 11	
	674	10	Gya and Deoghur pilgrim road—			
			Road	427 13 11	427 13 11	
	2,366	11	Golah and Gobindpore road—			
			Road	1,464 3 7		
			Paterhar inspection bungalow ...	82 6 7		
			Mujhidih ditto ditto	61 12 5		
			Trees	165 14 3	1,774 4 10	
	899	13	Etkhoori and Padma road—			
			Road	550 11 9	550 11 9	
	263	14	Moheshmoonda and Bengabad road—			
			Road	148 2 3		
			Trees	43 13 6	191 15 9	
	2,222	15	Bishengurh and Goomia road—			
			Road	2,206 1 1		
			Trees	38 8 0	2,244 9 1	
	1,206	16	Giridih and Toondi road—			
			Road	605 13 1		
			Trees	49 13 6	655 10 7	
	1,238	17	Old Ranchi road—			
			Road	747 3 0		
			Tandwa inspection bungalow ...	63 14 6	811 1 6	
	483	18	Koderma and Jainaggur road—			
			Road	325 3 7		
			Trees	66 0 3	391 3 10	
	417	28	Pachumba and Buddiha road—			
			Road	264 12 10		
			Trees	49 13 6	304 10 4	
	461	19	Dhanwar and Jamoe Road	57 4 8	57 4 8	
	217	5	Road cess office building	183 4 0	183 4 0	
			Village road—			
	6,561	...	Head-quarters sub-division	5,266 3 10		
	7,466	...	Giridih sub-division	4,494 8 9	9,761 1 7	
			Total Repairs ...		.....	33,261 5 6
	7,760		*Establishment.*			
			Establishment—			
			1 District Engineer for 12 months at Rs. 330 per month, viz., Rs. 300 salary and Rs. 30 contribution to Government for pension.		3,960 0	
			1 Sub-Overseer for 12 months, at Rs. 50 per month		600 0 0	
			2 Sub-Overseers for 12 months, at Rs. 30 each per month ...		720 0 0	
			1 Sub-Overseer for 9 months and 30 days at Rs. 30 per month.		299 0 0	
			1 Ditto for 15 days at Rs. 30 per month		14 8 3	
			1 Clerk and Accountant for 12 months at Rs. 50 per month ...		600 0 0	
			1 Orderly peon for the District Engineer for 12 months at Rs. 5 per month.		60 0 0	
			1 Office peon for 12 months at Rs. 5 per month		60 0 0	
						6,313 8 6
			Carried over ...		.....	45,572 3 6

Sub-head of estimate.	Amount as per budget estimate.	PARTICULARS.	Amount.	Total
	Rs.	EXPENDITURE—*concluded.*	Rs. A. P.	Rs. A. P.
		Brought forward ..	.....	45,572 3 6
Public Works—(*concld.*)		*Establishment*—concld.		
		Travelling Allowance—		
		District Engineer	535 8 0	
		1 Sub-Overseer for 13 months at Rs. 20 per month, and one month at Rs. 15 . .	275 0 0	
		2 Sub-Overseers for 13 months at Rs. 15 each per month	390 0 0	
		1 ditto for 9 months and 30 days at Rs. 15 per month ..	140 8 3	
		1 ditto for 1 month and 15 days at Rs. 15 per month ..	22 4 1	
				1,373 4 4
		Contingencies—		
		1 Punkha-puller for 6 months and 28 days at Rs. 3 per month	20 11	
		1 ditto for 6 months and 27 days at Rs. 2 per month	13 11 9	
		1 Sweeper	7 8 0	
		Money-order commission	29 10 0	
		Postage stamps	44 3 3	
				115 1 3
	1,430	*Tools and Plant*		
		New Tools—		
		396 Griffin's kodalis, No. 5, at Rs. 14 per dozen	462 0 0	
		1 Griffin's kodali, No. 6, at Rs. 15 ditto	1 4 0	
		353 Pickaxes, Steel faced, of sorts	308 6 0	
		249 Ballast hammers	94 8 0	
		3 Stone rollers	324 1 3	
		15 Iron rammers at Rs. 2 each	30 0 0	
		Repairs and Conveyance—		
		Repairing pickaxes, sharpening kodalies and repairing of tents, &c., including charges for conveyances	41 5 3	
				1,319 8 6
		ESTABLISHMENT AND CONTINGENCIES OF STAGING BUNGALOWS AND SERAIS.		
Miscellaneous	153 4	*Ramgurh Staging Bungalow.*		
		Establishment—		
		1 Khansama for 12 months at Rs. 6 per month	72 0 0	
		1 Sweeper for 12 months at Rs. 3 per month	36 0 0	
			108 0 0	
		Contingencies—		
		2 Copper deckchies at Rs. 1-8 each	3 0 0	
		1 Fry pan	1 0 0	
		4 Bathing towels at As. 8 each	2 0 0	
		3 Turkish towels at Rs. 11 per dozen	2 12 0	
		3 Ditto at „ 10 „	2 8 0	
		1 Dozen dusters at „ 1-8 „	1 8 0	
		1 Iron kettle	5 0 0	
		Tinning cooking utensils and washing bed clothes	15 5 0	
			33 1 0	
		Total Staging Bungalow Establishment and Contingencies ...	.. ..	141 1 0
	754	*Staging Bungalow—Petty Construction and Repairs.*		
		Repairs to the Ramghur dák bungalow	423 7 2	
		Ditto to the Bagodar cart serai	268 9 0	
				692 0 11
	100	*Miscellaneous.*		
		Travelling allowance to the Assistant Sub-Deputy Opium Agent, Burhi, for attending meeting	14 0 0	
				14 0 0
Suspense Accounts.	.	Advances—		
		Branch committee at Giridih	6,196 15 3	
		Deputy Collector, Cess Department	520 0 0	
		Sheikh Bahadoor Ali	500 0 0	
		Sheikh Shahamut Ali	500 0 0	
				8,716 15 3
	.....	Deposits—		
		Harolal Shaw	170 0 0	
		Issur Chander Dey	56 0 0	
		Sadik Hossen	115 0 0	
		Bhoopendra Kumar Gupta	435 0 0	
		Bhoopendra Kumar Gupta and Shew Sahailal	381 0 0	
		Sohun Mistry	10 0 0	
		Saheb Dad Khan	16 0 0	
		Lillambar Singh	27 0 0	
		Sohun Shaggut	40 8 0	
		Nando Mistry	25 0 0	
		Gunput Ram	25 0 0	
		Branch committee, Giridih	172 0 0	
				1,472 8 9
		Total Disbursement ...	.....	55,416 5 9

Memorandum showing in detail the actual Cash Balance on the 31st March 1889.

PARTICULARS	Amount. Rs. A. P.	Total. Rs. A. P.
Balance at credit of Hazaribagh District Road Fund in the treasury as per pass-book	28,788 3 9	
Less—		
Amount of cheques charged in the accounts, but not paid from the treasury	3,240 15 4	
		25,547 4 5
Imprest in the hands of the District Engineer ...	... ...	100 0 0
Net balance as per District Road Fund cash-book	... ...	25,647 4 5

Memorandum showing in detail the amount of Outstanding Advances on the 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Chairman, Branch Committee, Giridih... ...	... 1,5[illegible] 2 13 6	
Deputy Collector, Cess Department	... 52 15 6	
Bahadoor Ali, contractor	... 500 0 0	
Shahamut Ali ,, ...	... 500 0 0	
		2,555 13 0

Memorandum showing in detail the Balances of Deposits of Contractors on the 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Taruk Nath Banerjee, contractor	... 144 0 0	
Shekh Bahadoor Ali ,, ...	... 34 0 0	
Shekh Shahamut Ali ,, ...	... 39 0 0	
Shekh Moonsiff Ali ,, ...	... 54 0 0	
Rungoo Shaw ,, ...	... 38 0 0	
Bhookhoo Ram ,, ...	... 106 0 0	
Shekh Ghowsey ,, ...	... 37 0 0	
Branch Committee, Giridih	... 600 0 0	
		1,052 0 0

H. C. MITTER,
Vice-Chairman.

No. 94DR., dated Ranchi, the 31st May / 13th June 1889.

From—E. G. LILLINGSTON, Esq., Chairman, District Road Cess Committee, Lohardugga,

To—The Commissioner of the Chota Nagpore Division.

I HAVE the honour to submit herewith the annual accounts and report on the working of the Road Cess Act, IX (B. C.) of 1880, for the year ending 31st March 1889.

* * * * * * * *

8. * * * * * The attendance of the official members of the District Committee during the year under report was only satisfactory, for out of four officials three attended six meetings, and one attended two meetings, but out of eight non-official members two attended four meetings, and the other six one or two meetings only. Regarding Palamow Branch Road Cess Committee * * * the attendance of the non-official members was unsatisfactory.

4. A summary of the business transacted at the meetings of the District Road Cess Committee is given below:—

(*a*) Passing the budget estimates.
(*b*) Fixing the rate of road cess to be levied during the year.
(*c*) Passing the annual accounts for 1887-88.
(*d*) Passing estimates submitted by the District Engineer for the repairs of different roads during 1887-88.
(*e*) Appointing contractors for the construction and repairs of different roads for 1888-89.
(*f*) Disposing of other miscellaneous business.

5. Mr. C. F. Manson, Deputy Magistrate, held the office of Vice-Chairman from April 1888 to December 1888, and Officiating Joint-Magistrate, G. W. Place, Esq., C.S., from January to February 1888, on account of there being no senior assistant from March 1889. The office of the Vice-Chairman was under my direct supervision. The cheques were signed by the Executive Engineer in place of the Vice-Chairman as *ex-officio* member of the Committee.

6. The demand on account of cess on lands and mines during the year, including arrears of last year, amounted to Rs. 53,467. Of this Rs. 609 was collected as advance during the previous year, and Rs. 51,738 has been collected within the year under report, thus leaving a balance outstanding on the 31st March 1889 of Rs. 1,120. In addition to the above a sum of Rs. 564 was collected in advance on account of the ensuing year 1889-90.

7. The cess was levied at the maximum rate. There was no difficulty in collecting it at head-quarters in the Palamow subdivision; also the payments appear now to be more punctually made than before.

8. The accounts of the year were duly examined and audited by a sub-committee consisting of the Vice-Chairman and two other English-knowing members.

9. *Original works.*—Three bridges of rubble stone and brick masonry abutments, piers, and wing walls and masonry arched roadway were constructed on Ranchi and Lohardugga road—one over the Kurruk stream, having two spans of 25 feet each; another over the Bara river with three spans of 20 feet each; and the third over the Baratpore stream of two spans, measuring 20 feet each. A diversion on the existing road for the purpose of selecting better sites for these bridges was also under construction, which is expected to be completed by the next rains. Another bridge was intended to be constructed close to Lohardugga, in order to replace a timber-topped bridge, which is much damaged, and provision for this

was made in the budget, but it could not be taken in hand, as it was all but settled that an embankment would be constructed stopping the stream over which the bridge was to be built, with the amount sanctioned for the bridge, in order to improve the water-supply of the locality.

10. A bridge 20 feet span, with rubble stone and brick masonry abutments and wing walls and sal-timber roadway, was constructed over a nulla close to the village of Jhoree on Majwan and Jupla road in the Palamow subdivision.

11. *Survey.*—Survey was taken of Lohardugga-Chattra road, Kuru to Orenga stream road, and Daltongunge and Maharajgunge roads, and plan prepared of them. Some drawing of plans and sections for the preparation of a project for Ranchi and Chandil road were made.

12. *Arboriculture.*—Nine hundred new seedlings of mango, jack and kurrung were planted along the last five miles of Ranchi and Lohardugga road, and protected by bamboo gabions. Plants along 75 miles of the roads were maintained in good condition. Several new gabions were supplied. Some of the plants died and were replaced by fresh seedlings.

13. *Repairs.—Ranchi-Lohardugga Road.*—This very important road, which has considerable cart traffic, was maintained in fair order throughout the year. About eight miles of the road between Ranchi and Brambey in the 12th mile were gravelled during the year. This gravelling has been finished in the road up to Mandur thana on the 17th mile, with the exception of a little over two miles in all at places on high ground. A timber bridge in the 16th mile was thoroughly rebuilt. A parapet with a portion of arch in a culvert in the 20th mile, which was seriously damaged, was thoroughly repaired, and flooring renewed in case of two bridges on the 20th and 21st miles. Wheel guards were put up to protect the parapet walls in almost all the bridges and culverts.

14 *Lohardugga and Chattra Road.*—A temporary bridge, 25 feet span, with dry rubble, abutments and wing walls and timber roadway was constructed. Sal-wood roadways in three bridges were thoroughly repaired. The road was maintained in good order by surface repairs.

15. *Kuru to Orenga Stream Road.*—A temporary bridge of rubble masonry abutment and wing walls and sâl timber roadway with a span, measuring 20 feet, was thoroughly reconstructed, and another 45 feet long was under construction. Road was kept in a fair order.

16. *Orenga to Daltongunge Road.*—The road was much improved upon as regards the gradients at the Charwadih ghât by cutting and filling. Side-drains were renewed along some six miles of road taken altogether. Two bridges of rubble and brick masonry abutments and timber roadway, and another of masonry arched road way, were thoroughly reconstructed. The road was maintained in good order throughout its length.

17. *Daltongunge-Maharajgunge Road.*—About five miles of mere track were converted into road this year. The road which is one of the most important roads in the Palamow sub-division, and has much traffic from Gya district, has now been made practicable for carts throughout its length, specially during the fair weather. Several temporary bridges were renewed. Road was kept passable throughout the year by surface repairs.

18. *Daltongunge and Gurwa Road.*—Road was kept in good order. Some temporary bridges were constructed, and others thoroughly repaired.

19. *Ranchi-Bundgaon Road.*—Some repairs consisting in cutting the road to improve its gradients and those to bridges were effected, as well as some earthwork in petty repairs were done. The maintenance of the road was taken over at the end of the last rainy season by the Public Works Department.

20. *Ranchi-Palkote Road.*—That section of it which extends from Bussia to Palkote, about 12 miles in length, was converted into a properly raised road, with seven temporary culverts, in place of the mere tracks unfit for wheeled traffic. The entire length of the road was maintained in passable condition for purposes of cart traffic.

21. *Khunti-Kamdera Road.*—Earthwork consisting in embankments through the rice lands, at three places were finished during the year. Some temporary bridges were constructed. The road was opened for cart traffic throughout its length, and was maintained in good order.

22 *Ranchi-Chandil Road.*—Reconstruction of the road from Bundu to Penaidih, which was commenced, and in a portion of which work had been done the year before last, was completed Several culverts of temporary nature were constructed. The rubble masonry and jungle wood temporary bridge over Nailgurrah nullah was under reconstruction. The road was maintained in good order.

23. *Ranchi and Palma Road.*—Sal wood platforms of all the three bridges repaired this year were reconstructed. The road was maintained in good order.

24. *Anundi to Gola Road.*—Road was maintained in fair order by patch repairs.

24½. *Ranchi-Pithoria Road.*—The road was kept in passable condition by petty repairs. Some temporary bridges were rebuilt.

25. *Daltongunge-Behar Road; Gurwa to Untari Road; Lesligunge-Pankey Road.*—No contractor was available for repairing these roads. The entire allotments could not be spent. Some jungle-cuttings and petty repairs were executed departmentally.

26. *Gurwa and Majwan Road.*—A little over one-third of the allotment, which was sufficient for reconstruction of the entire length of the road, could only be spent, as the contractors to whom the works were let out on regular contract neglected their works much. In about half the length side drains were renewed and embankments reconstructed.

27. *Majwan and Jupla Road.*—The allotment was almost sufficient for the reconstruction of the whole length of the road, which was a mere track, quite unfit for cart traffic. The work was let out to the same contractors as in case of Gurwa-Majwan road, who failed to complete the work. Only about four miles were renewed.

28. *Lohardugga-Sumbulpore Road.*—About 12 miles of the road were reconstructed during the year. The road was kept in passable condition.

29. *Ranchi-Jhalda Road.*—It was kept passable by patch repairs. Several temporary bridges were constructed.

30. *Daltongunge station roads.*—They were kept in good order by petty repairs, and renewal of gravelling here and there.

31. *Palma to Lohardugga Road vid Bhandra.*—Two temporary bridges of sâl bullah platform abutments, a span measuring 18 feet, and another having a 20 feet span, were built; a third bridge, partly sâl timber and partly sâl bullah platform, having rubble masonry abutments, with three spans, 55 feet long altogether, was also constructed during the year. The road was kept in fair order throughout the year.

32. *Petty roads in the head-quarters subdivision.*—All the roads were maintained in good order during the year under report.

33. *Village roads.*—In the head-quarters subdivision some 69 miles of new road have been constructed, and 100 miles properly maintained, and many temporary bridges constructed. In the Palamow subdivision reconstruction was effected in Daltongunge-Patan road and Kechki road. Some six roads were repaired.

34. *Staging bungalows.*—All the bungalows were maintained in fair order by petty repairs.

35. Generally it may be said that more attention has been paid this year to securing good and lasting works rather than quantity. Drainage is being especially looked after, and care taken that the bad portions of roads are completed before work is done on the better parts. A system has been introduced to finish off such portions of roads as are to be put in order first, and until these are completed the contractors and subordinates employed under the District Engineer are not given credit for any other works executed.

36. *Accounts.*—The monthly accounts of the road fund and of the District Engineer's office were examined by the Vice-Chairman and two other English-knowing members of the committee, who were appointed for the purpose.

37. The local auditor inspected this and the District Engineer's office on the 13th December 1888, and the result was very satisfactory.

* * * * *

42. The roads, bridges and culverts mentioned in the budget estimate for 1889-90 (sanctioned by Government) are the works proposed to be taken in hand during the ensuing year 1889-90.

43. The works have all been executed by contracts during the year under report, and the small sums advanced to the contractors have been adjusted.

No. 6.—Part I.

LOHARDUGGA DISTRICT ROAD FUND.

Annual account of income and expenditure from 1st April 1888 to 31st March 1889.

Receipts.		Amount.	Total.	Expenditure.		Amount.	Total.
		Rs. A. P.	Rs. A. P.			Rs. A. P.	Rs. A. P.
Balance on 31st March 1888		.....	36,195 15 3	Refunds ...	Of cesses	.....	.....
Provincial rates ...	Cess on lands	52,319 3 8			„ other receipts	.....	
	„ on mines and railways ...	2 11 0		Provincial rates ...	Establishment and contingencies of office of collection	2,577 0 10	2,577 0 10
	„ on houses	.....		Administration ...	Establishment and contingencies of Committee's office	550 7 10	
	One per cent road cess	.....	52,321 14 8		Percentage cost of establishment for offices of account and control ...	757 7 7	1,307 15 5
Public Works ...	Road tolls	.....		Stationery ...	Stationery and printing	579 7 3	579 7 3
	Ferry „	.....	.....	Public Works ...	Original works	10,585 2 3	
Irrigation ...	Canal tolls	.....	.....		Repairs	37,453 3 6	
Miscellaneous ...	Rent of serais and bungalows ...	32 0 0			Establishment	9,157 6 10	
	Fees, fines and forfeitures ...	406 8 0			Tools and plant	528 3 0	
	Interest	140 3 9			Toll and ferry establishment and contingencies	.....	57,723 15 7
	Miscellaneous	6 1 9	584 13 6	Irrigation ...	Canal toll establishment and contingencies	.....	.....
Grant from Government		1,937 10 9	1,937 10 9	Miscellaneous ...	Staging bungalow establishment and contingencies	185 8 0	
Total Revenue of the year ...		.....	54,844 6 11		Staging bungalow, petty construction and repairs	628 14 1	
Suspense Account ...	Advances	3,193 0 0			Miscellaneous	124 4 0	938 10 1
	Deposits	3,223 1 4		Contribution to Provincial Government		.....	.....
			6,416 1 4	Total Expenditure of the year ...		.....	63,127 1 2
Total of the year ...		.....	61,260 8 3	Suspense account	Advances	3,053 0 0	
Grand Total ...		.....	97,456 7 6		Deposits	2,319 1 4	5,372 1 4
				Total Disbursement of the year ...		.....	68,499 2 6
				Balance on 31st March 1889 as detailed on the memorandum of balance overleaf		.....	28,957 5 0
				Grand Total ...		.....	97,456 7 6

E. G. Lillingston,

Chairman, D. R. Committee, Lohardugga.

No. 6.—Part II.

LOHARDUGGA DISTRICT ROAD FUND.

Details of income and expenditure for the year from 1st April 1888 to 31st March 1889 to accompany the annual account for the year.

Sub-head of Estimate	Amount as per budget estimate.	Particulars.	Amount.	Total.
	Rs A. P.	INCOME.	Rs A P.	Rs A P.
Provincial rates	51,445 2 9	Cess on lands	52,319 3 8	
	3 1 0	Cess on mines and railways	2 11 0	
	..	Cess on houses	.	
		One per cent. road cess		52,321 14 8
Miscellaneous	24 0 0	Rents of serais and staging bungalow—		
		Collection of rent from the occupant of the Road Cess inspection bungalows at head-quarters sub-division by District Engineer	9 8 0	
		Ditto ditto by the Chairman, Branch Road Committee	22 8 0	32 0 0
	263 0 0	Fees, fines, and forfeitures—		
		Record searching fees	41 12 0	
		Copying fees	210 13 0	
	5 0 0	Fines realized from sub-overseer and mohurir	10 0 0	
		Fines realized by forfeiting security deposits of the contractors for non-execution of works	174 0 0	436 8 0
	50 0 0	Interest on lands	140 3 9	140 3 9
		Miscellaneous—		
		Sale proceeds of roadside mangoes	5 2 0	
		Ditto of one old tin box	0 15 9	6 1 9
Grant from Government	1,100 0 0	Contribution paid by Government from public work cess fund, being one-third cost of the establishment employed for collection of revenue	900 0 0	
		Contribution paid by the Deputy Commissioner of Lohardugga out of Estate Improvement Fund for improvement of Government estates	1,037 10 9	1,937 10 9
Suspense Account	300 0 0	*Advances.*		
		Recovery of advance from Accountant, Baboo Nundo Lal Chatterjee, by adjustment of his pay	135 0 0	
		Recovery of advance from contractor Annoda Prosad Dutta by adjustment of expenditure on works	400 0 0	
		Recovery of advance from contractor Jodu Nath Gangoolee by adjustment of expenditure on works	300 0 0	
		Recovery of advance from contractor Motoor Ram by adjustment of expenditure on works	250 0 0	
		Recovery of advance from Kali Kumar Bagish by adjustment of expenditure on works	100 0 0	
		Recovery of advance from contractor Bakro Nath Bhuttacharjee by adjustment of expenditure on works	150 0 0	
		Recovery of advance from Overseer Baboo Hari Charun Mookerjee by adjustment of expenditure on works	300 0 0	
		Recovery of advance from contractor Shaik Latto by adjustmen, on works	300 0 0	
		Recovery of advance from contractor Tara Prosunno Roy Chowdhori by adjustment of expenditure on works	500 0 0	
		Recovery of advance from contractor Giridhari Ram and Sreekissen Pattuck by adjustment of expenditure on works	150 0 0	
		Recovery of advance from contractor Nagore Mudey by adjustment of expenditure of works	100 0 0	
		Recovery of advance from contractor Kasi Nath Bhuttacharjee by adjustment of expenditure on works	200 0 0	
		Recovery of advance from Mr Peppe, Planter, by adjustment of expenditure on works	50 0 0	
		Recovery of cost of court-fee stamps issued in certificate cases in cash	238 0 0	3,193 0 0
		Deposits.		
		Security deposit received from contractor Bakro Nath Bhuttacharjee by deduction from his bill	125 0 0	
		Security deposit received from contractor Jodu Nath Gangoolee by 10 per cent deduction from his bill	225 0 0	
		Security deposit received from contractor Tara Prosunno Roy Chowdhori by deduction from his bills	833 4 1	
		Security deposit received from contractor Motoor Ram by deduction from his bills	179 0 0	
		Security deposit received from contractor Nagore Moodey by deduction from his bills	102 0 0	
		Security deposit received from contractor Annoda Prosad Dutta by deduction from his bills	316 0 0	
		Security deposit received from contractor Shaik Latto by deduction from his bills	109 0 0	
		Security deposit received from contractor Brojo Nath Dutt by deduction from his bills	15 0 0	
		Security deposit received from contractors Nund Kissore Lal by deduction from his bills	31 0 0	
		Security deposit received from contractor Kedar Nath Bhuttacharjee by deduction from his bills	63 0 0	
		Security deposit received from contractor Giridhari Ram and Sreekissen Pattuck by deduction from their bills	109 0 0	
		Security deposit received f om contractor Mewa Lal by deduction from his bills	216 0 0	
		Security deposit received from contractor Ramjeebun Chatterjee by deduction from his bills	106 0 0	
		Security deposit received from contractor, Jogendra Kumar Sircar, by deduction from his bills	214 0 0	
		Security deposit received from contractors Asutosh Boral, &c, by deduction from their bills	403 13 3	
		Security deposit received from contractor Jodu Nath Chatterjee by deduction from his bills	21 0 0	
		Security deposit received from contractor Kasi Nath Bhuttacharjee by deduction from his bills	35 0 0	3,323 1 4
	53,100 3 9	Total of the year	..	61,260 8 3

Sub-head of estimate.	Amount as per budget estimate.	PARTICULARS.	Amount.	Total.
	Rs. A. P.	EXPENDITURE.	Rs. A. P	Rs. A. P.
Refunds	.. ..	Of cess	... ..	
	...	Of other receipts	... .	.....
Provincial rates.	2,366 0 0	*On collection of Revenue.*		
	+600 0 0	Head-quarter—		
		Baboo Nundo Lal Chatterjee, head-clerk and accountant, from 1st March 1888 to 28th February 1889, at Rs. 70 per month .	840 0 0	
		One clerk from 16th April to 27th May 1888 to officiate for Nundo Lal Chatterjee, head-clerk and accountant, at Rs. 18 per month	24 10 9	
		One assistant clerk from 1st March 1888 to 6th June 1888, at Rs. 25 and from 7th June 1888 to 28th February 1889, at Rs. 20 per month	308 12 3	
		One temporary clerk sanctioned in Board's No. 3064, dated 22nd October 1887, from March to May 1888, at Rs. 15 .	45 0 0	
		One mohurir from March 1888 to 28th February 1889, at Rs. 20 per month	240 0 0	
		One peon from March 1888 to 28th February 1889, at Rs. 6 per month	72 0 0	
		Palamow sub-division—		
		One assistant clerk from 1st March 1888 to 28th February 1889, at Rs. 36 per month	432 0 0	
		One peon from 1st March 1888 to 28th February 1889, at Rs. 5 per month	60 0 0	
		Travelling allowance to the assistant clerk for coming to Ranchi on duty	37 8 0	
		Revaluation establishment sanctioned in Board's letter No. 79A., dated 19th February 1889.		
		Baboo Jodu Nath Sirkar, Special Deputy Collector, his pay for February 1889	200 0 0	
		Baboo Nundo Lal Chatterjee, head-clerk, his allowance for supervising revaluation work from 24th January to 28th February 1889, at Rs. 30 per month	37 11 10	
		One clerk from 26th January to 28th February 1889, at Rs. 30 per month	35 12 10	
		One clerk from 9th to 28th February 1889, at Rs. 25 per month ..	19 10 3	
		One mohurir from 26th January to 28th February 1889, at Rs. 15 per month	17 14 5	
		Two peons from 24th January to 28th February 1889, at Rs. 5 each per month	13 9 4	
		One peon from 26th January to 28th February 1889, at Rs. 5 per month	5 15 6	
		Five peons from 3rd to 28th February 1889, at Rs. 5 each per month	23 3 3	
		One peon from 5th to 28th ditto at ,, 5 per month ..	4 4 6	
		Three peons from 11th to 28th ditto at ,, 5 each per month	9 10 3	
		Four peons from 13th to 28th ditto at ,, 5 ,, ,, ,,	11 6 3	
		Three peons from 14th to 28th ditto at ,, 5 ,, ,, ,,	8 0 6	
		Two peons from 15th to 28th ditto at ,, 5 ,, ,, ,,	5 0 0	
		Two peons from 17th to 28th ditto at ,, 5 ,, ,, ,,	4 4 6	
		Two peons from 17th to 18th ditto at ,, 5 ,, ,, ,,	0 11 6	
		Travelling allowance of Revaluation Deputy Collector to join his appointment	55 10 6	
		Contingencies.		
		Service stamps	16 0 0	
		Cloth for busta	1 0 0	
		Country stationery	3 9 0	
		Binding note and towjee books	3 11 0	
		Bolt for badges	19 8 0	
		Pay of sweeper for four months	4 0 0	
		One rubber self-inking machine	17 8 0	
		Total establishment and contingencies of Office of Collection ..	.....	2,577 0 10
Administration	485 0 0			
	+100 0 0	Allowance of Baboo Nundo Lal Chatterjee, present accountant, from March 1888 to 28th February 1889, at Rs. 20 per month ...	240 0 0	
		Contingencies.		
		Pay of sweepers for eight months	8 0 0	
		Pay of punkha-puller at head-quarters	18 0 9	
		Ditto ditto of the Palamow sub-division	18 0 0	
		Pay of duftry for 12 months, at Re. 1 per month	12 0 0	
		Country stationery	9 1 0	
		Municipal tax	36 0 0	
		Service stamps	19 0 0	
		Receipt stamps	20 12 0	
		Cost of guard file	1 4 0	
		Cost of one copy Local Self-Government Act	5 6 0	
		Cloth for busta	3 0 0	
		Miscellaneous	10 4 0	
		Cost of conveyance of records	6 8 0	
		Cost of one padlock	1 8 0	
		Cost of one rubber stamp	17 12 0	
		Cost of publication of annual accounts and reports in the *Calcutta Gazette*	124 0 1	
		Total establishment and contingencies of Committee's office ...	.....	550 7 10
	800 0 0	Percentage cost of establishment for Offices of Account and Control	757 7 7	757 7 7
Stationery ..	500 0 0	Value of stationery articles supplied by the Superintendent of		
	+300 0 0	Stationery, including conveyance	193 10 6	
	—100 0 0	Value of printed forms supplied by the Superintendent of Stationery, including conveyance	385 12 9	
		Total stationery and printing ...	.....	579 7 3
	4,151 0			
	+900 0 0	Carried over ...	.....	4,464 7 6

Sub-head of estimate.	Amount as per budget estimate.	Number of roads.	PARTICULARS.	Total estimated cost.	Total outlay to end of the year.	Amount.	Total.
	Rs. A. P.		EXPENDITURE—*contd.*	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.
	4,151 0 0		Brought forward .	.....	.. .	.....	4,464 7 6
	+900 0 0		*Original Works.*				
Public Works	5,461 0 0	1	Ranchee and Lohardugga road (estimate sanctioned in Government No. 1291 L. P., dated 3rd May 1888)—				
	+5,639 0 0		Brick masonry		19,715 8 10	2,818 7 9	
			Earthwork		2,409 15 0	549 11 7	
			Rubble masonry		9,142 5 10	1,956 5 5	
			Plastering		396 9 5	...	
			Centering		3,048 5 4	1,320 0 0	
			Planting trees		1,502 16 5	127 11 6	
			Contingencies		1,235 15 10		
			Concrete		2,111 5 1	646 5 0	
			Pointing		896 5 5	277 7 3	
			Surveying		109 5 3	.....	
			Compensation	46,096	20 0 0	.....	
			Turfing		4 8 0	...	
			Rock-cutting		513 6 0	329 4 7	
			Wood-work		92 6 0		
			Bailing out water		717 8 5	85 0 0	
			Trenching		17 11 8	.....	
			Other items		100 10 4	.. ...	
			Cut stones		361 14 0	348 14 0	
			Gravelling		234 5 10	..	
			Blasting stones		32 6 4	.....	
			Inspection bungalow		1,502 2 10	.....	
				46,096	44 936 8 10	8,555 2 11	
	250 0 0	2	Lohardugga and Chattra road (estimate for culverts sanctioned in Government No. 758, dated 28th March 1882)—				
			Brick masonry		777 12 0	.....	
			Rubble ditto		1,689 3 2	.. ...	
			Plastering		192 11 4	.....	
			Earthwork	53,867	249 5 6	.....	
			Centering		16 0 0		
			Surveying		489 5 5	205 0 0	
			Planting trees		.....	.....	
				53,867	3,405 8 5	205 0 0	
	400 0 0	3	Kuru and Orenga Stream on boundary of head-quarter sub division—				
	—100 0 0		Surveying		544 5 0	197 14 11	
			Earthwork	33,818	1,231 2 0	.....	
			Contingencies		10 15 0	.....	
				33,818	1,786 6 0	197 14 11	
	150 0 0	4	Boundary of head quarter sub-division to Daltongunge	.....	... ..	.....	
	—150 0 0						
	+950 0 0	5	Daltongunge and Meharajgunge road—				
			Brick masonry		795 7 0	.....	
			Rubble ditto		441 3 11	.....	
			Earthwork		1,071 15 7	.. ...	
			Centering		11 11 0	.....	
			Pointing		24 0 0	.....	
			Terrace flooring	...	11 14 0	.. ...	
			Rock-cutting		12 12 6	.....	
			Jungle-cutting		21 12 9	.....	
			Plastering		6 0 0	.. ...	
			Surveying		1,185 15 10	225 0 0	
			Planting trees		155 13 9	.....	
				.....	3,740 9 4	225 0 0	
	.....	15	Daltongunge-Behar road—				
			Rubble masonry		407 0 9	.....	
			Brick ditto		396 10 9		
			Centering		9 14 10	.. ..	
			Earthwork	.....	161 4 0	... ..	
			Surveying		221 8 8	... ..	
			Planting trees		20 0 0	20 0 0	
				.....	1,218 7 0	20 0 0	
	5,400 0 0	10	Ranchi and Chandil road—				
	—5,000 0 0		Brick masonry ..		847 12 3	. ..	
			Plantantion		725 13 1	....	
			Rubble masonry		277 9 9	. ...	
			Surveying	.....	2,144 6 10	390 10 9	
			Plastering		86 10 0	.. ..	
			Earthwork		254 11 3	.....	
			Inspection hut		74 15 1	.. ...	
				.....	4,611 14 3	390 10 9	
	+1,100 0 0	.....	Majhiwan and Jupia Road—				
			Earthwork		17 15 5	17 15 5	
			Rubble masonry		581 11 2	581 11 2	
			Brick masonry		87 10 4	87 10 4	
			Bailing out water		8 0 0	8 0 0	
			Ironwork	.....	19 7 4	19 7 4	
			Pointing		9 0 7	9 0 7	
			Woodwork		6 10 6	6 10 6	
			Contingencies		260 14 4	260 14 4	
				.....	991 5 8	991 5 8	
	16,400 0 0	.....	Total original works ...	. ..	..	.. .	10,585 2 3
	20,751 0 0		Carried over ...	.....	.....	. ..	15,049 9 9
	+900 0 0						

Sub-head of estimate.	Amount as per budget estimate.	Number of roads.	PARTICULARS.	Amount.	Total.
	Rs. A. P.		EXPENDITURE—*continued.*	Rs. A. P.	Rs. A. P.
	20,351 0 0				
	+500 0 0		Brought forward ...	.....	18,969 9 9
Public Works —(*contd.*)			*Repairs.*		
	5,000 0 0	1	Ranchi and Lohardugga road	4,996 10 3	
	2,000 0 0	2	Lohardugga and Chatra ,, ...	2,093 15 10	
	+100 0 0				
	800 0 0	3	Kuru to Orenga stream boundary of head-quarter sub-division	1,661 5 9	
	+900 0 0				
	2,000 0 0	4	Boundary of head-quarter sub-division to Daltongunge	3,019 2 2	
	+1,000 0 0				
	1,500 0 0	5	Daltongunge and Moharajgunge road	2,024 10 6	
	+500 0 0				
	400 0 0	6	Daltongunge and Gurwa road	361 7 3	
	1,500 0 0	7	Ranchi and Bundguon road	989 6 1	
	—500 0 0				
	3,000 0 0	8	Ranchi and Palkote road	2,993 9 1	
	800 0 0	9	Khunti and Kundera ,, ...	792 3 11	
	2,000 0 0	10	Ranchi and Chandil ,, ...	2,990 7 10	
	+1,000 0 0				
	400 0 0	11	Ranchi and Palma ,, ...	898 14 6	
	+300 0 0				
	250 0 0	12	Ranchi (Anundi) and Gallar road	231 15 7	
	400 0 0	13	Ranchi and Pithoria road	400 0 0	
	.....	14	Balcomath and Jhanju road	.....	
	300 0 0	15	Daltongunge and Behar ,, ...	236 6 9	
	200 0 0	16	Gurwa and Untari ,, ...	78 10 0	
	1,500 0 0	17	Gurwa and Majhiwan ,, ...	762 3 8	
	+400 0 0				
	1,400 0 0	18	Majhiwan and Jupla ,, ...	443 13 7	
	+500 0 0				
	100 0 0	19	Leeligunge-Pankey ,, ...	80 9 6	
	750 0 0	20	Lohardugga towards Sumbulpore	746 9 8	
	.....	21	Pankey and Jhanju Road	.....	
	2,000 0 0	22	Palma to Lohardugga *viâ* Bhandra	2,949 15 5	
	+1,000 0 0				
	400 0 0	23	Bundu and Jhalda road	389 6 6	
	300 0 0	24	Daltongunge Sub-divisional Station roads	288 10 11	
	500 0 0	25	Petty roads lying in the Sudder station	159 10 7	
	1,200 0 0	26	Village roads in the Palamow sub-division	920 8 5	
	+600 0 0				
	3,000 0 0	27 & 28	Village roads in the Sudder sub-division	7,069 5 7	
	+5,700 0 0				
	205 0 0	.....	Road Cess Office godown	112 8 2	
	43,565 0 0		Total Repairs ..	.....	37,493 3 6
			Establishment.		
			Head-quarter sub-division.		
	9,144 0 0		Baboo Jugadish Chander Roy, District Engineer, his pay from 1st March 1888 to 28th February 1889, at Rs. 300 per month	3,600 0 0	
			One Sub-overseer from 1st March 1888 to 28th February 1889, at Rs. 45 per month	540 0 0	
			One Sub-overseer for March 1888, at Rs. 35	35 0 0	
			One Sub-overseer from April 1888 to 28th February 1889, at Rs. 40 per month	440 0 0	
			One Sub-overseer for March 1888, at Rs 25 per month and from April 1888 to 28th February 1889, at Rs. 30 per month	355 0 0	
			One clerk from March 1888 to 28th February 1889, at Rs. 40 per month	480 0 0	
			One peon from March 1888 to 28th February 1889, at Rs 6 per month	72 0 0	
			Palamow sub-division.		
			Baboo Hari Charan Mookerjee, Overseer, his pay and sub-divisio al allowance from 1st March 1888 to 28th February 1889, at Rs. 120 per month	1,440 0 0	
			One peon from 1st March 1888 to 28th February 1889, at Rs. 5 per month	59 10 10	
			Travelling allowance of Baboo Jugadish Chander Roy, District Engineer, from 1st March 1888 to 28th February 1889, at Rs. 100 per month	1,200 0 0	
			Travelling allowance of 1st Sub-overseer from 1st March 1888 to 28th February 1889, at Rs. 15 per month	180 0 0	
			Travelling allowance of 2nd Sub-overseer from 1st March 1888 to 28th February 1889, at Rs. 15 per month	180 0 0	
			Travelling allowance of 3rd Sub-overseer from 1st March 1888 to 28th February 1889, at Rs. 15 per month	180 0 0	
			Travelling allowance of Baboo Hari Charan Mookerjee from 1st March 1888 to 28th February 1889, at Rs. 30 per month	360 0 0	
			Contingencies.		
			Cost of ordinary postage stamps	14 0 0	
			Receipt stamps	0 2 0	
			Money-order commission	1 12 0	
			Postage of bearing parcels and covers	0 9 0	
			Cost of conveyance of records	0 4 0	
			Value of one rubber stamp	10 8 0	
			District Engineer's office rent	8 9 0	
			Total Establishment and contingencies .	.....	9,157 6 10
	1,200 0 0		*Tools and Plant.*		
	—500 0 0				
			Eleven country-made kodalies	7 15 0	
			Three tapes	14 4 0	
			Three glazed almirahs	105 0 0	
			One diamond, glazed	11 12 0	
			One aboney level	27 6 0	
			One sledge hammer	7	
			Three stone-cutting chisel		
			One crowbar	3 5 6	
			Two steel jumpers	5 13 6	
			One enamelled kettle	2 14 0	
			One frying pan	2 8 0	
			One deckchee	3 12 0	
			One dozen hotwater plates	12 0 0	
			One dozen soup plates	2 0 0	
			One ,, half ,, ...	1 12 0	
			One ,, flat ,, ...	2 0 0	
			One ,, quarter ,, ...	1 4 0	
			Six hot-water side dishes	24 0 0	
			Six vegetable dishes	0 0	
	74,800 0 0			240 5 6	66,060 4 1

Sub-head of estimate.	Amount as per budget estimate.	Particulars.	Amount.	Total.
	Rs. A. P.	EXPENDITURE—*concluded.*	Rs. A. P.	Rs. A. P.
	74,800 0 0	Brought forward ...	... ...	61,660 4 1
Public Works—(*concld.*)		*Tools and Plant*—concld.		
		Brought forward ...	240 8 6	
		Three baking dishes	3 0 0	
		Three roast dishes	4 8 0	
		Ditto ditto	3 12 0	
		One dozen cups and saucers	5 0 0	
		Three tea plates	6 0 0	
		Three sugar plates	4 8 0	
		Three milk jugs	3 0 0	
		Three slop basins	2 4 0	
		One dozen egg cups	3 0 0	
		Three sets chamber services	15 0 0	
		Three chamber pots	3 0 0	
		One dozen sodawater tumblers...	6 0 0	
		One dozen tumblers	5 0 0	
		One dozen wine glasses	4 8 0	
		Six salt cellars	2 4 0	
		One dozen finger bowls	6 0 0	
		Six pairs canuers	15 0 0	
		One dozen table knives	8 0 0	
		One dozen dessert knives...	6 8 0	
		One dozen table spoons	10 0 0	
		One dozen dessert spoons	8 0 0	
		One dozen table forks	10 0 0	
		One dozen dessert forks	8 0 0	
		One dozen tea spoons	4 0 0	
		Six salt spoons	2 0 0	
		Six egg spoons	2 0 0	
		Three candle lamps	4 8 0	
		Three duphy wall lamps...	15 0 0	
		Three hurricane lanterns	7 8 0	
		Carriage of tools and plant	21 4 0	
		Repairing store godown, tents, &c.	64 13 6	
		Pay of Palamow godown chowkidars	59 8 3	
		Do. Ranchi ditto	28 0 0	
		Municipal tax of the godown	4 8 0	
		Total ...	593 11 3	
		Deduct value of tools recovered from the Contractors by adjusting their deposits	65 8 3	
				528 3 0
Miscellaneous	272 0 0	Staging Bungalow Establishment and contingencies in the Head-quarters Sub-division	144 0 0	
		Ditto in the Palamow Sub-division	41 8 0	
				185 8 0
	1,350 0 0	Staging Bungalow petty construction and repairs—		
	—500 0 0	Repairing Opa Staging Bungalow	218 8 5	
		Purchasing Manka Staging Bungalow	60 0 0	
		Repairing Baloomath ditto	15 0 0	
		Ditto Lohardugga ditto	58 13 4	
		Ditto Brambey ditto	39 7 4	
		Ditto Zalim ditto	74 8 6	
		Ditto Paluki ditto	74 8 6	
		Ditto Jamuhoos Inspection hut	28 2 4	
		Ditto Bhandra ditto	29 11 6	
		Ditto Gamharia ditto	30 3 2	
	107 0 0	Miscellaneous—		628 14 1
		Remuneration to English and vernacular copyists, being half the fees credited by the parties from March 1888 to 28th February 1889	124 4 0	
Suspense Account.	300 0 0			124 4 0
		Advances.		
		Amount advanced to Sub-divisional Officer of Palamow on account of process fees	183 0 0	
		Amount advanced to accountant Baboo Nundo Lal Chatterjee ...	135 0 0	
		Ditto ditto to Sub-Inspector of Khunti	90 0 0	
		Ditto ditto ditto of Kurra	45 0 0	
		Ditto ditto to contractor, Motoor Ram	250 0 0	
		Ditto ditto ditto Annoda Prosad Dutt...	400 0 0	
		Ditto ditto ditto Bokro Nath Bhattacharjee	150 0 0	
		Ditto ditto ditto Nagore Mooley	100 0 0	
		Ditto ditto to Overseer, Hari Charun Mookerjee	300 0 0	
		Ditto ditto to contractor, Sheik Lattoo	300 0 0	
		Ditto ditto ditto Kashi Nath Bhuttacherje	200 0 0	
		Ditto ditto ditto Tara Prosunno Roy Chowdhur ...	500 0 0	
		Ditto ditto to Executive Engineer	200 0 0	
		Ditto ditto to Kally Kumar Bagish	50 0 0	
		Ditto ditto to contractors Giridhari Ram and Sreekissen ...	150 0 0	
	... ...			3,053 0 0
		Deposits.		
		Deposit refunded to contractor, Kedar Nath Bhuttacherjee, in cash	130 0 0	
		Ditto to ditto Ramjeebun Chatterjee, in cash	94 0 0	
		Ditto to ditto Bakro Nath Bhuttacharjee	185 0 0	
		Ditto to ditto Shaik Lattoo, in cash	65 0 0	
		Ditto to ditto Mewa Lal, in cash	280 0 0	
		Di to to ditto Giridhari Ram and Sreekissen, in cash	70 0 0	
		Ditto to ditto Motoor Ram, in cash	100 0 0	
		Rs. A. P.		
		Ditto to ditto Jodu Nath Gangooly, in cash 125 0 0		
		Ditto to ditto ditto by adjustment .. 15 0 0	140 0 0	
		Ditto to ditto Durga Charun Dutta, in cash 201 0 0		
		Ditto to ditto ditto by adjustment .. 10 0 0	211 0 0	
		Ditto to ditto Annoda Prosad Dutta in cash 583 7 9		
		Ditto to ditto ditto by adjustment . 45 8 3	628 0 0	
		Ditto to ditto Nagore Mooley, in cash 230 1 4		
		Ditto to ditto ditto by adjustment .. 30 0 0	260 1 4	
		Ditto to ditto Brojo Nath Dutta, in cash 75 0 0		
		Ditto to ditto ditto by adjustment ... 5 0 0	80 0 0	
		Ditto to ditto Sree Nath Bhoomick, by adjustment	65 0 0	
		Ditto to ditto Joyhurry Sirkar, by adjustment ...	10 0 0	
		Ditto to ditto Giridhari Lall, by adjustment	19 0 0	
				2,319 1 4
	76,329 0 0	Total Disbursement of the year ..	... ..	68,499 2 6

Memorandum showing in detail the actual cash balance on the 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Balance at credit of Lohardugga District Road Fund in the treasury as per pass-book ...	40,498 5 6	
Less amount of cheques charged in account, but not yet cashed	11,733 13 4	
		28,764 8 2
Imprest in hands of Engineers and others ...	.....	192 12 10
Net balance as per Road Fund cash-book ...	.....	28,957 5 0

Memorandum showing in detail the amount of outstanding advance on 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.	REMARKS.
Sub-divisional Officer of Palamow ...	100 0 0		Permanent advance for certificate cases.
Road Cess Deputy Collector	6 4 0		
Process fees	281 3 6		
Sub-Inspector of Khunti thana	90 0 0		Will be adjusted in April account.
Ditto of Kurra thana	45 0 0		
Executive Engineer	200 0 0		
		160 0 6	

Memorandum showing in detail the balances at credit of deposit on 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Contractor Jodu Nath Gangooly	225 0 0	
Ditto Snaik Lattoo	109 0 0	
Ditto Ganoda Prasad Mookerjee	6 0 0	
Ditto Bepin Chander Bal	115 0 0	
Ditto Moti Lal Mittra	35 0 0	
Ditto Bakro Nath Bhuttacharjee	125 0 0	
Ditto Tara Prosunno Roy Chowdhuree	1,003 4 1	
Ditto Kedar Nath Mookerjee	50 0 0	
Ditto Matoor Ram	79 0 0	
Ditto Nagore Moodey	62 0 0	
Ditto Annoda Prosad Dutta	318 0 0	
Ditto Brojo Nath Dutta	15 0 0	
Ditto Nund Kissore Laul	31 0 0	
Ditto Kedar Nath Bhuttacharjee	63 0 0	
Ditto Giridhari Ram and Srikissen Pattuck ...	109 0 0	
Ditto Mewa Lal	216 0 0	
Ditto Ramjeebun Chatterjee	166 0 0	
Ditto Jogendra Kumar Sirkar	214 0 0	
Ditto Asutosh Baral, K. N. Mookerjee and B. C. Bal	403 13 3	
Ditto Jodu Nath Chatterjee	21 0 0	
Ditto Kashi Nath Bhuttacharjee	35 0 0	
		3,399 1 4

E. G. LILLINGSTON,
Chairman, District Road Cess Committee, Lohardugga.

Annual Report of the District Road Committee of Manbhoom for the cess year 1888-89.

1. *Working of Cess Act IX (B.C.) of 1880*—Statement A shows the demands, collections and balances of cesses for 1888-89 as compared with the year previous.

The outstanding balance for 1887-88 was Rs. 43,897, and the demand for the year under report was Rs. 87,762, against Rs. 51,567 and Rs. 89,820, respectively, for the previous years, thus—

			Rs.
Arrears of cesses on lands for 1886-87	...	...	47,397
Ditto on mines and quarries	...	...	2,539
Ditto on jungles ...	...	...	1,631
	Total	...	51,567
Demands of cess on lands for 1887-88	...	...	80,044
Ditto on mines and quarries	...	...	7,180
Ditto on jungles ...	...	...	2,596
	Total	...	89,820

There was a decrease of Rs. 2,058 in the demand owing to reduced assessments on some coal mines, quarries, and jungles. The balance left unrealized at the end of the year was further reduced to Rs. 27,463. The collection of the year was Rs. 1,04,073, against Rs. 97,431 the year previous, showing an *increase* of Rs. 6,642.

Out of the balance, Rs. 27,586, shown in column 10 of the statement, Rs. 123 have been remitted by orders of the Deputy Commissioner and Commissioner of Chota Nagpore. The net balance to be realized is Rs. 27,463, of which Rs 18,065 represents the arrears of the kist falling due on the 28th March 1889, the payment of which could not be enforced till after the lapse of 15 days; deducting the amount of March kist, the balance is reduced to Rs. 9,398, of which Rs. 6,802 are due from the Pachet Raja alone for the last January kist. Certificates have been filed for realization of the January kist in all cases, and applications have been made for sale of the immoveable property of zemindars and lakhirajdars.

The following mines and quarries were assessed during the year as compared with the previous year—

	Coal mines.	Stone quarries.	Ghooting quarries.	Amount of assessment.
1887-88	12	15	7	7,179
1888-89	19	15	6	5,328

The cesses were not paid regularly in all cases. The people of this district generally wait till after the certificate procedure is put in force. The practice of giving intimation to the owners of mines, quarries, and jungles by means of printed post-cards has been found to be useful, as it obviated the necessity of issuing certificates in many cases. The operation of the Cess Act has led to the improvement of roads and communications.

2. *Working of the Committee.*—The Committee met 12 times during the year under report, and there was no meeting without a quorum.

* * * * *

The following is a summary of work done by the Committee during the year :—

(1) Passing monthly Road Fund accounts every month, audited by a standing Sub-Committee.

(2) Considering the plans and estimates for widening and re-aligning portions of the Purulia-Bankura and Purulia-Manbazar roads within the town of Purulia to a width of 24 feet.

(3) Discussion over the Commissioner's letter regarding the appointment of a Superintendent of Works, as well as over the Chairman's draft resolution on the same subject.

(4) Passing Annual Accounts and Reports of the Cess year 1887-88.

(5) Nominating three additional members for the Sudder Committee.

(6) Passing of the budget estimates of receipts and expenditure for the cess year 1889-90, and proposal for an application to be made for sanction to levy cess on the Bengal-Nagpore Railway when opened for traffic.

(7) Discussion over the Government enquiry as to whether the Committee are prepared to take over the Purulia-Burrakur Road and Committee's resolution to undertake the same, provided Government takes over as a provincial work the construction and maintenance of the Bolorampore-Burrabazar-Koilapal Roads.

3. *Branch Committees.*—A Branch Committee was established at Govindpore during the year under report, and Baboo Akhoy Kumar Ghose was appointed sub-overseer.

4. *Working establishment.*—There have been no changes during the year.

* * * * * * * *

5. *Works done during the year.*—Abstract of all works done during the year and the respective cost is shown in Appendix B.

(*a*). *Sudder Sub-division.*—The provision under head *original works* consisted of (1) construction of the Bolorampore-Burrabazar road; (2) metalling some of the Purulia station roads with quartz stone metal; and (3) improving and widening portions of the Manbazar and Bankura roads within the town of Purulia. These works have been finished very satisfactorily, excepting the construction of the Bolorampore and Burrabazar road, which is in progress.

Repair works—In the Sudder sub-division consisted of the following :—The roads from Purulia towards Chybassa and Bankura have been repaired and improved with quartz stone metal and screened gravel. The Roghoonathpore and Ranigunge road, Roghoonathpore-Bankura road, Charrah Branch road, first and second sections of the Jhapra and Govindpore road have been maintained in fair order generally by earthwork, turfing and gravelling. A good deal of earthwork has been done in the Hura-Manbazar section of the Roghoonathpore-Manbazar road, and five temporary culverts constructed in it. The road is now fit for cart traffic all along. The Roghoonathpore-Hazaribagh road has been extended as far as Chandra. The Ledhoorka and Gourandi road (an old famine road) was taken up for repairs last year only. A good deal of earthw rk has been done in this road, and it is quite fit for cart traffic as far as Kassipore, and somewhat passable for carts all the way to Gourandi. The Damdah-Burrabazar and Burrabazar-Koilapal roads have been maintained in very fair order, and the latter extended to some extent. The construction of the Chota Talpat bundh, the embankment of which now forms part of Burrabazar and Koilapal road, is

no doubt a great improvement to this road. This road is now quite fit for carts as far as village Chirudi, only four miles from Koilapal. All other roads have been kept in repairs.

(*b*) *Village roads.*—The work on the Manbazar and Burrabazar village road was done as far as Sindree. This portion of the road is fit for cart traffic. A new village road from Jeypore to Begoonkodar was started this year, and works done on it as far as funds permitted. All other village roads were taken in hand and kept in repairs.

(*c*) *Cart serais.*—Two new cart serais—one at Chandil, the other at Bolorampore—were constructed this year. The roofs of these two serais are tiled. The Hurra and Jainagar cart serais were thoroughly improved by roofing the sheds with tiles. General repairs were done to all other serais and their compounds.

6 *Govindpore Sub-division.*—There was no original work. The works were wholly restricted to repairs to existing roads. The Govindpore and Toondi road was repaired as usual and extended towards the boundary of the district. All other roads in the sub-division were maintained properly and improved by gravelling the muddy places. *The village roads* in the Govindpore sub-division were maintained and repaired properly. The Govindpore and Jherriya village road has been taken up for repairs during the year under report in order to make it a district road. Half of the cost of this road has been borne by the Jherriya estate.

The cart serais—In this sub-division were maintained properly.

H. W. HILL, M.B, *Surgeon-Major,*
Vice-Chairman, District Road Committee, Manbhoom.

STATEMENT A.

Statement showing the demands, collections, and arrears of Road and Public Works cesses, and interests on lands, mines, quarries and jungles for the year 1888 89.

1	2	3	4	5	6	7	8	9	10	11	12	13
	Arrear demand.	Current demand.	Total.	Previously paid in advance for the pre-ent year.	Net demand.	Collection made within the year.	Collection in advances on account of future year.	Total collection.	Balance (6-7).	Remission.	Net balance.	REMARKS.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
(A) Cesses on lands, mines, quarries, and jungles.	43,897	87,762	1,31,659	20	1,31,639	1,04,053	11	1,04,064	27,586	123	27,463	The difference of Rs. 2 between the figures shown in column 12 of the last year's statement and those shown in column 2 of this is owing to the addition of fractional parts in the quarterly Statement for June 1888.
(B) Interest	840	1,667	2,207	..	2,207	2,015	..	2,015	192	6	186	
Total ..	44,437	89,429	1,33,866	20	1,33,846	1,06,068	11	1,06,079	27,778	129	27,649	
	Details of the figures given against A.											
Cess on lands .	41,051	80,044	1,21,095	20	1,21,075	94,049	11	94,060	27,026	111	26,915	
Do. on mines and quarries . .	1,392	5,379	6,721	...	6 721	6,665	..	6,665	56	3	53	
Do. on jungles	1,454	2,389	3,843	...	3,843	3,339	..	3,339	504	9	495	
Total ...	43,897	87,762	1,31,659	20	1,31,639	1,04,053	11	1,04,064	27,586	123	27,463	

(Countersigned).

H W HILL, M.B, *Vice-Chairman.*

RAM SADAN BHUTTACHARJEE, *Deputy Collector, in charge.*

APPENDIX B.

Brief Statement of District Road Works for the cess year 1888-89.

NAME OF ROAD.	Length in miles.	NAME OF WORK.	Estimated amount.	Total of estimated amount.	Actual cost.	Total of actual cost.
		Original Works.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Purulia station roads.	8	Metalling some of the roads in the Purulia station	1,858 0 0	1,858 0 0	1,857 9 3	1,857 9 3
		Compensation for lands taken up for widening portion of the Purulia-Bankura road within the town of Purulia	1,087 8 0	1,087 8 0	932 12 6	932 12 6
		Compensation for lands taken up for widening portion of the Purulia-Manbazar road within the town of Purulia	611 8 0	611 8 0	577 10 0	577 10 0
		Preparing projects for Railway feeders	400 0 0	400 0 0	241 0 0	241 0 0
		Improving portion of the Purulia-Bankura road within the town of Purulia	669 8 10	669 8 10	554 8 0	554 8 0
		Improving portion of the Purulia and Manbazar road within the town of Purulia	842 12 7	842 12 7	809 6 4	809 6 4
		Carried over ...	..	5,469 5 5	.....	4,972 14 1

NAME OF ROAD.	Length in miles	NAME OF WORK.	Estimated amount.	Total of estimated amount.	Actual cost.	Total of actual cost.
			Rs. A. P.	Rs. A. P.	Rs. A. P	Rs A. P.
		Brought forward ...	...	5,469 5 5	...	4,972 14 1
		Repair Works.				
Purulia and Chyebassa road.	40	Maintenance	1,800 0 0		1,581 13 8	
		Repairs to inspection bungalows	563 4 2		548 12 2	
		Ditto to bridges and culverts	755 9 2		721 0 6	
		Spreading and consolidating screened gravel and quartz stone metal ..	3,000 0 0		2,647 2 6	
Purulia and Bankura road.	28	Maintenance	900 0 0	6,118 13 4	870 1 4	5,408 12 10
		Repairs to bridges and culverts ...	250 0 0		212 10 0	
		Ditto to inspection bungalows	139 8 6		139 8 6	
		Spreading and consolidating screened gravel	2,500 0 0		1,187 11 7	
Purulia and Manbazar road.	29	Maintenance ...	1,100 0 0	3,739 8 6	1,151 14 5	3,300 15 5
		Repairs to bridges and culverts	148 14 5		146 14 5	
		Ditto to inspection bungalows	149 15 8		149 15 8	
Roxhoonathpore and Ramgunge road	15	Maintenance	1,200 0 0	1,458 13 8	1,189 12 11	1,452 12 1
		Repairs to bridges and culverts ..	99 13 0		99 13 0	
		Ditto to inspection bungalows	116 15 8		116 15 8	
Purulia station roads.	8	Maintenance	800 0 0	1,416 12 8	599 15 1	1,416 9 7
		Repairs to culverts... ..	47 1 7		47 1 7	
Charrah branch road	4	Maintenance	300 0 0	647 1 7	289 6 8	647 0 8
		Repairs to culverts	25 0 0		25 0 0	
Roghoonathpore and Bankura road.	16	Maintenance	800 0 0	825 0 0	790 13 8	824 6 8
		Repairs to culverts ..	49 10 7		49 10 7	
		Ditto to inspection bungalows ...	149 1 2		149 1 2	
Roghoonathpore and Hazaribagh road	26	Maintenance	1,560 0 0	998 11 9	1,560 0 0	998 9 5
		Repairs to culverts	199 10 4		199 10 4	
Damdah and Burrabazar road	18	Maintenance	950 0 0	1,759 10 4	925 11 8	1,750 10 4
		Repairs to culverts	99 15 10		99 15 10	
		Ditto to inspection bungalows ..	199 11 4		186 3 2	
Ludhoorka and Gourandi road	18	Maintenance	1,350 0 0	1,249 11 2	1,349 13 8	1,211 14 8
Jhapra and Govindpore road (first and second sections)	12	Maintenance . . .	600 0 0	1,350 0 0	599 15 3	1,349 13 8
		Repairs to inspection bungalows ...	247 6 1		247 6 1	
Hura Manbazar section of the Roghoonathpore and Manbazar Road	19	Maintenance	1,500 0 0	847 6 1	1,499 3 6	847 5 4
		Repairs to inspection bungalows ...	149 2 0		147 0 10	
				1,649 2 0		1,646 4 4
Purulia and Chass Road.	28	Maintenance	840 0 0	840 0 0	840 0 0	840 0 0
Manbazar and Bankura road.	8	Ditto	400 0 0	400 0 0	399 8 10	399 8 10
Burrabazar and Kollapal road.	25	Maintenance ...	2,000 0 0		1,642 14 2	
		Repairs to inspection bungalows ...	149 7 10	2,149 7 10	149 7 10	1,792 6 1
	.....	Village roads	4,000 0 0	4,000 0 0	4,000 0 0	4,000 0 0
	...	Maintenance of trees and plants	400 0 0	400 0 0	398 10 0	398 10 0
		Petty construction and repairs.				
	.....	Repairs to cart serais	1,800 0 0	1,800 0 0	1,800 0 0	1,800 0 0
	. ..	Ditto to bandhs	100 0 0	100 0 0	100 0 0	100 0 0
		Govindpore sub-division.				
Govindpore and Toondi road.	10	Maintenance ...	1,137 2 4	1,137 2 4	1,512 7 1	1,512 7 1
Nirsha and Jamtara road.	4	Ditto	400 0 0	400 0 0	335 3 6	335 3 6
Govindpore Station roads	...	Ditto	101 0 6	100 0 6	100 0 6	100 0 6
Jhapra and Govindpore road (3rd and 4th sections.)	14	Maintenance ...	700 0 0	900 0 0	699 9 8	889 1 8
		Repairs to bridges and culverts .	100 0 0		98 8 0	
		Ditto to inspection bungalows ...	100 0 0		103 0 0	
	... ..	Village roads	2,198 2 0	2,198 2 0	2,085 4 5	2,085 4 5
		Petty construction and repairs				
	..	Repairs to cart serais	400 0 0	400 0 0	333 9 6	333 9 6
		Repairs to Rajgunge bungalow ...	100 0 0	100 0 0	99 6 5	99 6 5
		Tools and plant	300 0 0	300 0 0	214 2 3	214 2 3
		GRAND TOTAL ...	. .	42,304 12 8	... ..	39,425 12 11

Countersigned.

H. W. HILL, M.B.,
Vice-Chairman.

NUNDO GOPAL BANERJEE,
District Engineer, Manbhoom.

The 15th June 1889.

Supplement to the Annual Report of the Manbhoom District Road Committee for the year 1888-89.

Arboriculture.—Some young trees were planted along the station roads of Purulia and Govindpore during the year under report, and old ones along the Purulia station roads were maintained by watering, repairing gabions, &c. Nothing could be done towards planting trees extensively along the district roads for want of funds.

E. N. BAKER,
Chairman, District Road Committee.

No. 6.—Part I.

MANBHOOM DISTRICT ROAD FUND.

Annual Accounts of Receipts and Disbursements from 1st April 1888 to 31st March 1889.

Receipts.		Amount.	Total.
		Rs. A. P.	Rs. A. P.
Balance on 1st April 1888 as per cash-book		24,824 8 4	24,824 8 4
Receipts of the year.			
Provincial rates ...	Cess on land	36,593 15 5	
	Cess on mines, quarries, jungles, &c. ..	5,001 10 4	
	Cess on houses	.. ...	
	One per cent. road cess	.....	41,595 9 9
Public Works ...	Road tolls	.....	
	Ferry tolls	.. ...	.....
Irrigation ...	Canal tolls	.....	.....
Miscellaneous ...	Rents of serais and bungalows ...	4,179 10 11	
	Fees, fines, and forfeitures ..	.....	
	Interest (on arrears of cess on lands, mines, &c.)	789 8 3	
	Miscellaneous	716 4 9	5,685 7 11
Grant from Government		500 0 0	500 0 0
Total Revenue ...		.....	47,781 1 8
Advances		2,227 12 3	
Deposits		1,450 0 0	3,677 12 3
Total Receipts ...		.....	51,458 13 11
Grand Total ...		.....	76,283 6 3

Expenditure.		Amount.	Total.
		Rs. A. P	Rs. A. P.
Refunds ...	Of cess	....	
	Of other receipts	372 15 6	372 15 6
Provincial rates ...	Establishment and contingencies of office of collection	997 14 1	
	Cost of service of notices, &c., not recoverable	192 2 10	
	Travelling allowance of establishment for making local enquiry about profits of jungles, &c.	.... .	1,190 0 11
Administration ...	Establishment and contingencies of Committee's office	1,482 6 4	
	Percentage cost of establishment for offices of account and control ...	692 14 7	2,175 4 11
Stationery ...	Stationery and printing	299 6 2	299 6 2
Public works ...	Original works	6,265 5 10	
	Repairs	30,465 9 8	
	Establishment	6,402 11 2	
	Tools and plant	214 2 3	
	Toll and ferry establishment and contingencies	... ..	43,347 12 11
Irrigation ..	Canal toll establishment and contingencies	.....	.....
Miscellaneous ..	Staging bungalow establishment and contingencies	...	.....
	Staging bungalow petty construction and repairs	2,594 12 9	2,594 12 9
	Miscellaneous	. . ..	.....
Contribution to Provincial Government		.....	.....
Total ...		.... .	49,980 5 2
Advances		2,615 11 9	
Deposits		1,300 0 0	3,915 11 9
Total expenditure to be passed ...		.....	53,896 0 11
Cash-book balance on 31st March 1889		.....	22,387 5 4
Grand Total ..		.....	76,283 6 3

Passed for Rs. 53,896-0-11 (fifty-three thousand eight hundred and ninety-six rupees and eleven pies) only.

Purulia,
The 24th June 1889.

Nandalal Ghosh,
Ram Doyal Mozumdar, } *Members of the Committee.*

H. W. Hill.
Vice-Chairman.

No. 6.—Part II.

MANBHOOM DISTRICT ROAD FUND.

Details of Receipts and Disbursements for the cess year 1888-89, *from* 1*st April* 1888 *to* 31*st March* 1889, *to accompany the annual account for that year.*

Sub-head of estimate.	Amount as per budget estimate.	Particulars.	Amount.	Total.
	Rs. A. P.		Rs. A. P.	Rs. A. P.
		Balance on 1st April 1888 as per cash-book	24,824 8 4	24,824 8 4
		Receipts.		
Provincial rates	31,808 0 0	Cess on lands	36,693 15 5	
	4,830 0 0	,, on mines, quarries, jungles, &c.	5,001 10 4	
	.....	,, on houses	.....	
	.....	One per cent. road cess	.....	41,695 9 9
Public works	.....	Road tolls	.....	
	.....	Ferry ,, ...	.....	.....
Irrigation ...	.....	Canal ,, ...	.....	.....
Miscellaneous	4,404 0 0	*Rents of serais and bungalows.*		
		Govindpore serai	278 0 0	
		Niraha do.	3 3 12 0	
		Rajaunj do.	180 0 0	
		Topa-hanchi do.	147 12 0	
		Thoolin do.	264 4 0	
		Jhalidah do.	167 14 6	
		Jeypore do.	419 1 6	
		Nodiara do.	370 5 9	
		Jainagar do.	338 12 0	
		Hura do.	283 12 0	
		Jhapra do.	338 12 0	
		Raghunathpore do.	205 1 0	
		Bortora do.	451 1 3	
		Kantadi do.	30 0 0	
		Satsori do.	79 7 9	
		Bolorampore do.	80 4 0	
		Doobra do.	92 10 3	
		Lakhanpore do.	25 0 0	
		Chandan Kiari do.	25 8 0	
		Chasa Chutty do.	24 4 0	
		Chandil do.	60 12 0	
		Ditto bungalow	42 8 0	
		Bolorampore do.	7 12 0	
		Manbazar do.	.....	
		Kendah do.	.....	
		Hura do.	0 8 0	
		Kurgally do.	.....	
		Govindpore do.	5 0 0	
		Doobra do.	0 4 0	
		Barrabazar do.	1 4 0	
				4,179 10 11
	.....	Fees, fines and forfeitures	.....	.....
	610 0 0	Interest (on arrears of cess on lands, mines, &c.)	789 8 3	789 8 3
	.....	*Miscellaneous.*		
		Sale proceeds of fruits from the compound of the Barrabazar inspection bungalow	1 1 3	
		Refund of the balance of advances made on account of compensation for houses for widening the Purulia, Bankura, and Manbazar roads through the town of Purulia	0 3 3	
		Sale proceeds of fallen trees	3 10 0	
		Amount credited to reconcile the discrepancy of 2 annas and 3 pies as directed by the local auditor	0 2 3	
		Sale proceeds of ceiling cloth, &c., of the Barrabazar inspection bungalow	2 4 0	
		Miscellaneous receipts on account of Jherria estate for gravelling the Jherria village road	700 0 0	
				716 4 9
Grant from Government	500 0 0	Contribution from Government for joint road and public works cess establishments, as per Board's No. 214A, dated 26th February 1879	500 0 0	500 0 0
	41,892 0 0	Total revenue ...	.....	72,605 10 9
	1,200 0 0	Advances	2,327 12 3	
	..	Deposits	1,450 0 0	3,677 12 3
	43,092 0 0	Total receipts, including opening balance	.....	76 283 6 3
		Expenditure.		
Refunds ...	.....	Refunds of cess	.....	
	.....	Ditto of other receipts	372 15 6	372 15 6
Provincial rates	1,413 0 0	*Establishment and contingencies of office of collection.*		
		1 Head clerk on Rs. 70 a month for 12 months	840 0 0	
		1 Moharir on Rs. 30 for 1 month and 21 days	51 0 0	
		1 Duftry on Rs. 6 a month (after deduction of fine of 6 annas and 3 pies)	71 9 9	
		Pay of one punkha-puller on Rs. 3 for half month	1 8 0	
		Ditto ditto for six months on Rs. 3	18 0 0	
		Ditto ditto for eight days on Rs. 3	0 12 4	
		Cost of service of notices, &c., not recoverable under sections 97 and 98 of the Act IX of 1880 (including remissions)	192 2 10	
		Cost of service labels	15 0 0	
				1,190 0 11
	1,413 0 0	Carried over ...	.....	1,563 0 5

Sub-head of estimate.	Amount as per budget estimate.	PARTICULARS.	Amount	Total.
	Rs. A. P.		Rs. A. P.	Rs. A. P.
	1,413 0 0	EXPENDITURE—*continued.*		
		Brought forward ...	.....	1,563 0 5
Administration	1,648 0 0	***Establishment and contingencies of Committee's office.***		
		1 Accountant on Rs. 110 a month for 12 months	1,320 0 0	
		1 Chaprassi on Rs. 5 for 9 months	45 0 0	
		Ditto ditto for 28 days (of April)	4 10 8	
		Ditto ditto for 29 days (of December)	4 10 8	
		Ditto ditto (after deduction of fine of 8 annas)	4 8 0	
		Punkha-pullers	54 4 6	
		Municipal tax on District Engineer's office and store godown ...	8 4 0	
		Postage on bearing covers	0 12 6	
		Postage stamps for District Engineer's office	2 2 6	
		Cost of service labels	9 0 0	
		Cost of receipt stamps for cheques above Rs. 20	11 0 0	
		Railway freight, including cart-hire for a box of stationery ...	2 8 0	
		Postage on bearing parcels containing printed forms, &c.	14 6 6	
		Cost of repairs of dumpy level, including cooly-hire	9 0 0	
		Petty miscellaneous charges	12 8 0	
				1,482 6 4
	637 6 11	Percentage cost of establishment for offices of account and control	692 14 7	692 14 7
Stationery ..	261 0 0	Cost of printing day-books, contract and petty contract forms, and road fund account forms	63 13 3	
		Cost of country stationery, cloth, &c., for cess office	18 1 9	
		Do. of printed forms for cess office	58 5 0	
		Do. of binding registers and town books	1 12 0	
		Do. of printing charges of annual accounts and reports for the half-year ending 31st March 1887	50 15 9	
		Cost of printing charges of annual accounts and reports for the cess year 1887-88	71 11 8	
		Cost of English stationery	39 10 9	
				299 2 2

		Distinguishing number.		Total sanctioned cost.	Total outlay to end of the year.		
			Original Works.	Rs. A. P.	Rs. A. P.		
Public Works	.....	1	Diverting approach to the Subarnarekha road	2,067 4 8	1,915 2 3	553 1 6	
	.....	.....	Cost of surveying, &c., some of the railway feeders, &c., &c. ...	.....	972 11 5	180 2 1	
	400 0 0	.....	Cost of preparing projects, Railway feeders ...	400 0 0	221 8 0	221 8 0	
	1,858 0 0	4	Metalling some of the station roads in Purulia ...	1,858 0 0	1,857 9 3	1,857 9 3	
	1,550 0 0	6	Improving and widening portions of the Purulia-Manbazar road	1,550 0 0	1,387 0 11	1,387 0 11	
	1,800 0 0	2	Improving and widening portion of the Purulia-Bankoora road ...	1,800 0 0	1,486 13 2	1,486 13 2	
	3,000 0 0	24	Earthwork, &c., on the Bolaramore-Barrabazar road	3,000 0 0	.....	.....	
	.....	3	Reconstructing a pucca culvert of 6 feet span on the Roghunathpore-Raniganje road	600 0 0	579 2 11	579 2 11	
	8,608 0 0		Total Original Works ...	.....	.....	.....	6,765 5 10
			Repairs.				
	1,581 13 8	1	Maintenance, Purulia-Chyebassa road			1,581 13 8	
	2,647 2 6		Spreading and consolidating stone metal and screened gravel.			4,635 7 8	
	755 9 2		Repairs to bridges and culverts on Purulia-Chyebassa road			399 8 3	
	563 4 2		Ditto to inspection bungalows on ditto ...			541 2 0	
	900 0 0	2	Maintenance, Purulia-Bankura road ...			870 1 4	
	2,500 0 0		Spreading and consolidating screened gravel collected last year.			1,417 7 11	
	250 0 0		Repairs to bridges and culverts on Purulia-Bankura road			.. ..	
	140 0 0		Ditto to inspection bungalows on ditto ...			36 0 0	
	1,300 0 0	3	Maintenance, Roghunathpore-Raniganje road ...			1,199 12 11	
	100 0 0		Repairs to bridges and culverts on Roghunathpore-Raniganje road.			.....	
	120 0 0		Repairs to inspection bungalows, Roghunathpore-Raniganje road			24 0 0	
	600 0 0	4	Maintenance, Purulia station roads			590 15 1	
	50 0 0		Repairs to culverts on Purulia station road			47 1 7	
	300 0 0	5	Maintenance, Charrah branch road			290 6 3	
	25 0 0		Repairs to bridges and culverts on Charrah branch road			25 0 0	
	1,160 0 0	6	Maintenance, Purulia-Manbazar road			1,153 14 5	
	150 0 0		Repairs to bridges and culverts on Purulia-Manbazar road.			.....	
	150 0 0		Repairs to inspection bungalows on Purulia-Manbazar road.			42 0 0	
	800 0 0	7	Maintenance, Roghunathpore-Bankura road			799 13 8	
	50 0 0		Repairs to bridges and culverts on Roghunathpore-Bankura road.			.....	
	150 0 0		Repairs to inspection bungalows, Roghunathpore-Bankura road.			36 0 0	
	1,560 0 0	9	Maintenance, &c, Roghunathpore-Hazaribagh road, 1st, 2nd, and 3rd sections.			1,237 13 4	
	200 0 0		Repairs to culverts on Roghunathpore-Hazaribagh road, 1st, 2nd, and 3rd sections.			...	
	950 0 0	10	Maintenance, Damdah-Burrabazar road ...			501 15 5	
	100 0 0		Repairs to bridges and culverts on Damdah-Burrabazar road.			.....	
	200 0 0		Repairs to inspection bungalows, Damdah-Burrabazar road.			42 0 0	
	17,202 13 6						
	12,567 6 11		*Carried over* ...			13,400 5 5	10,303 1 4

Sub-head of estimate.	Amount as per budget estimate.	Distinguishing number.	Particulars.	Amount.	Total.
	Rs. A. P. 12,587 6 11		EXPENDITURE—*concluded.*	Rs. A. P	Rs. A. P.
			Brought forward	. . .	10,303 1 4
Public Works—(*concld.*)	17,282 13 6		*Repairs*—concld.		
			Brought forward ...	15,490 5 6	
	1,350 0 0	11	Maintenance, &c., Ledhoorka-Gourangdi road	1,553 8 8	
	600 0 0	12	Ditto Jhapra-Govindpore road (1st and 2nd sections).	599 15 3	
	50 0 0		Repairs to bridges and culverts on Jhapra-Govindpore road (1st and 2nd sections).		
	250 0 0		Repairs to inspection bungalows, Jhapra-Govindpore road (1st and 2nd sections).	48 0 0	
	1,500 0 0	15	Maintenance, &c., Manbazar-Roghunathpore road (Hura Manbazar section).	1,553 0 10	
	150 0 0		Repairs to inspection bungalows, Manbazar-Roghunathpore road, (Hura Manbazar section).	138 4 8	
	840 0 0	18	Maintenance, including construction of temporary culverts, Purulia-Chass road.	480 0 8	
	400 0 0	19	Maintenance, &c, Manbazar-Bankoora road ..	399 8 10	
	2,000 0 0	20	Ditto Barrabazar-Kotlapal road	1,280 1 11	
	150 0 0		Repairs to inspection bungalows on Barrabazar-Kotlapal road.	24 0 0	
	4,000 0 0	23 to 27	Maintenance, village roads (in Sudder subdivision) .	1,761 2 7	
	400 0 0		Ditto of trees on the station roads	398 10 0	
	700 0 0	12	Ditto Jhapra-Govindpore road (3rd and 4th sections).	699 9 8	
	100 0 0		Repairs to bridges and culverts on Jhapra-Govindpore road (3rd and 4th sections).	95 8 0	
	100 0 0		Repairs to inspection bungalows, Jhapra-Govindpore road (3rd and 4th sections).	103 0 0	
	1,140 0 0	13	Maintenance, &c., Govindpore-Tundi road .. .	2,057 13 1	
	400 0 0	16	Ditto, Nirsha-Jamtara road ...	347 10 6	
	100 0 0	5	Maintenance, Govindpore station roads	100 0 6	
	2,200 0 0	28 to 31	Ditto village roads (in Govindpore subdivision)	3, 30 5 0	
	33,032 13 6		Total Repairs .	..	30,465 9 8
	6,000 0 0		*Establishment.*		
			1 District Engineer on Rs 250 for 12 months	3,000 0 0	
			1 Office Assistant on Rs. 30 for 12 months	360 0 0	
			1 Sub-Overseer on Rs. 60 for 12 months ...	720 0 0	
			1 Ditto on Rs. 40 ditto	480 0 0	
			2 Chaprassees on Rs. 5 each for 10 months	100 0 0	
			1 Chaprassee on Rs. 5 for 13 days of May	2 1 6	
			1 Ditto offg. on Rs. 5 for 18 days of do.	2 14 6	
			1 Ditto on Rs. 5 for 1 month	5 0 0	
			1 Ditto on Rs. 4 for 2 months	8 0 0	
			1 Store-godown chowkidar on Rs. 5 for 12 months	60 0 0	
			Travelling allowance of the District Engineer	370 3 2	
			Horse allowance of the District Engineer on Rs. 30 for 12 months	360 0 0	
			Ditto of Sub Overseers ..	360 0 0	
			1 Sub-Overseer for the Govindpore Branch Committee on Rs. 45 for 11 months and 13 days.	514 8 0	
			1 Clerk for the Branch Committee on Rs. 5	60 0 0	
					6,402 .1 2
	300 0 0		*Tools and Plant.*		
			Purchase of 48 steel-pointed pickaxes	60 0 0	
			Ditto of 12 sledge hammers	80 9 3	
			Ditto of 100 iron rammers	106 4 0	
			Cost of carriage of the tools, &c., including railway freight	17 5 0	
					214 2 3
	50 0 0		Toll and ferry establishment and contingencies	.....	..
Miscellaneous	2,400 0 0		*Petty construction and repairs.*		
			Repairs to and construction of cart serais (in sudder subdivision)	1,365 2 3	
			Repairs to bandhs	160 3 11	
			Ditto to cart serais (in Govindpore subdivision)	830 4 7	
			Ditto to Rajgunge bungalow (in Govindpore subdivision)	239 2 0	
					2,594 12 9
			Total ..	.....	49,980 5 2
Suspense Accounts.	1,900 0 0		Advances	2,615 11 9	
	.....		Deposits	1,300 0 0	
					3,915 11 9
	57,750 4 5		Total Expenditure ..	.....	53,896 0 11
			Cash-book balance on 31st March 1889	.....	22,387 5 4
			GRAND TOTAL	.....	76,283 6 3

Memorandum showing in detail the actual Cash Balance on 31st March 1889.

Particulars.	Amount. Rs. A. P.
Balance at credit of the Manbhoom District Road Fund in the treasury as per pass-book	22,354 6 1
Imprest in hand of the District Road Accountant	32 15 3
Balance as per cash-book ...	22,387 5 4

Memorandum showing in detail the amount of Outstanding Advances on 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Amount of advances made to Road Cess Deputy Collector for costs of processes	1,142 11 1	
Amount repaid by the Cess Deputy Collector under sections 97 and 98 of Act IX of 1880 (B.C.) ...	775 2 2	
		367 8 11
Deduct amount as per details at foot	.....	134 7 9*
Total ...	... ...	233 1 2
Advanced to District Engineer on account of works, &c.	1,473 0 8	
Recovered in works, &c., from the District Engineer ...	1,452 10 1	
		20 6 7
Total ...	.....	253 7 9
Amount refunded by District Engineer on a account of works, &c.	.....	—9 3 3*
Total ...	.....	244 4 6

	Rs. A. P.
* Balance due from defaulters at the close of October 1885, omitted	280 15 9
Cash balance in the hands of the Cess Deputy Collector at the close of October 1886, omitted.	13 4 0
Total ...	303 3 9
Deduct amount of remission, &c., at close of October 1886, omitted	293 12 3
Total ...	92 8 6
Add amount recovered as shown in last year's statement	41 15 3
Total ...	134 7 9
Add amount of advance refunded by District Engineer on account of works, &c. . .	9 3 3
Total .	143 11 0

Memorandum showing in detail the Balance at credit of Deposit on 31st March 1889.

PARTICULARS.	Amount. Rs. A. P.	Total. Rs. A. P.
Amount of security deposits made by contractors for execution of road works	1,450 0 0	
Balance outstanding on 31st March 1888	250 0 0	
		1,700 0 0
Amount of security deposits refunded to contractors ...	.....	1,300 0 0
Total ...	.....	400 0 0

H. W. HILL,
Vice-Chairman.

Audit Certificate.

We hereby certify that the books and accounts specified below,* prescribed for the Road Cess Office and for the office of the District Engineer, are duly kept up, and that they have been posted for the year 1888-89, and they have been duly scrutinized by the sub-committee.

Also that the treasury officer's abstract of the account of the committee for the year has been duly received and checked with the cash and pass-books, and found to agree therewith, except in respect of the amount of imprest in the hands of the accountant, which has been duly noted in the cash-book.

That the vouchers for the payments of the year have been cancelled, that none but duly sanctioned expenditure has been incurred, and that in the case of original works the register of monthly expenditure shows clearly the amount of sanctioned estimate, the grant for the year, and generally that the work of the office has been performed with a due observance of the rules prescribed by Government.

* Road Cess office :—(1) Cash book ; (2) Cash abstract book ; (3) Register of monthly receipts and expenditure ; (4) Account of deposits ; (5) Account of advances.
District Engineer's office :—I—Accounts, viz (1) Files of contract certificates ; (2) Files of bills for purchases or purchase lists ; (3) Files of day-book ; (4) Files of establishment bills ; (5) Files of acquittance rolls ; II Books, viz : (2) Register of bills passed ; (3) Register of works and repairs ; (4) Register of tools and plant ; (5) Account of advances ; (7) Account of deposits.

Explanatory Note.

1. The excess expenditure of Rs. 55-7-8 under head *Percentage cost of establishment* is on account of the payment made during the year for the previous year.

2 The excess expenditure under head *Stationery and Printing* is on account of the extra demand of printed forms for the Committee's and that of the District Engineer's offices.

3. The excess expenditure in some of the items of *repair works*, and under head *Petty construction and repairs* is apparent, but not actual, as the budget provision shown is for the year under report, whereas the expenditure includes payments for works provided for in the previous year.

H. W. HILL,
Vice-Chairman.

Annual Report on Road Cess Operations for the cess year 1888-89.

Midnapore road—Is a second class road. This is the only communication between Midnapore and Chybassa. It extends from Chybassa to district boundary in Bend, or more properly Kopun nullah, and is 71 miles in length. The surface of the road received petty repairs. Portions of road in the 20th, 21st, and 32nd to 37th miles have been gravelled. It has been found that the portions gravelled remain in a very good condition throughout the year, especially during the rains, when, owing to the peculiar plastic nature of the soil, the roads become very miry. The culverts and bridges have also been maintained. New mileposts have been fixed.

Original work.—One inspection bungalow has been erected at Ghatsilla on the 50th mile.

Nursinggurh to Bhairagora road—Branches off from the Midnapore road on the 56th mile. It is a fifth class road, and is 21 miles in length. Petty repairs were done to the surface of the road, and the wooden culverts and bridges have been maintained.

Chybassa to Subornorekha river (*Burrakur road*)—Leads to Purulia. This is a third class road, 30 miles in length. Till the opening of the Bengal-Nagpore Railway, it will continue to be the most important road in this district. Surface dressing has been done throughout the road. Earthwork was also executed to improve the most rugged portions. Gravelling has been done in portions of the 9th to 16th miles, where the road becomes muddy during the rains. Side drains have also been cut to carry the drainage from the hills. The old metalled parts that got out of orders have also been repaired. This road crosses two big hill-streams—Rorho in the 5th and Sanjoy in the 20th miles. Besides the above, there are three more unbridged nullahs, and there should be bridges, as during heavy floods all sorts of traffic get stopped. Waterways of a number of culverts are insufficient, and there had been scours on the down stream sides. Stone pitching has been done in these places to prevent the foundation of the culverts being undermined. The bridges and culverts, almost all of which are of masonry, were in a good condition, and no repairs were necessary. New mileposts have also been fixed on the road

Original works.—Subornorekha Ghât improvement.—(*a*) Nearly the whole of the earthwork on the south side of the hill is finished. The rock-cutting on the top of the hill remains to be done, and when completed the new road will be fit for use. The work is in progress.

(*b*). *Thulko shelter-house.*—A bungalow at Thulko on the 8th mile has nearly been furnished.

Chybassa to Khursowan road—Is a fourth class road, 16 miles in length. The surface of the road and the culverts therein have received petty repairs. Portions of road in the 2nd and 3rd and 9th miles have been gravelled.

Chybassa to Fooljuri (*Bandgaon road*)—Is a second class road according to the road list lately received from Government, and is in length 44 miles. This road leads to Ranchi, the head quarters of the division. The surface of the road received petty repairs throughout. A portion of the road in the 8th mile was under flood during the last rain, and the same has been raised. Two new platform culverts have also been made at that place for passage of drainage. Portions of road in the 7th to 14th miles have been gravelled. The culverts were in good condition, and no repairs were necessary. New mileposts have been fixed.

This road crosses Sanjoy nullah on the 13th mile, and during the rains a ferry is kept at the crossing for passage of traffic.

The portion between Bandgaon and the district boundary, a length of two miles, is being improved by the Public Works Department, and the improvement of the portion up to Chuckradhurpore will be taken up shortly.

Bridge over Rorho nullah.—The platform bridge over Rorho nullah was in a dilapidated condition, and to prevent any accident it has been dismantled. Fifteen rolled iron joists have also been brought from Calcutta for using instead of wooden beams. The repairs are being pushed on vigorously. Finding the sum available from the current year's budget inadequate to complete the work, an application for an additional grant of Rs. 1,500 has been made by me in my letter No. $\frac{\text{R.C.}}{23}$, dated the 12th May 1889, to the address of the Commissioner of the Division, and I hope Government will grant this amount, considering the importance of the work.

Original work.—An inspection bungalow has been constructed at Chuckradhurpore.

Chuckradhurpore to Koksinga road—Is a fourth class road, and is in length 51 miles. The portion of the road up to Dalaikola, a length of 18 miles, has been maintained during the year under review. The surface of the road and a few of the timber culverts received only petty repairs. The whole of the timber culverts could not be repaired owing to the dearness of local labour caused by the great demand on the railway.

Chybassa to Joyntigurh road—Is a second class road, and is in length 35 miles. Surface dressing was done throughout. Necessary repairs were also done to the wooden culverts. Portions of the road in 2nd to 6th miles were improved by gravelling. Some rugged portions of the road were also improved by spreading earth. Some urgent petty repairs were done to the following village roads:—

(1) Chybassa to Katbary. | (2) Gamaria to Jamda.

(3) Gamaria to Mujgaon.

Road Cess and Municipal Office building.—The office building, half the cost of which is to be borne by the Municipality here, has nearly been finished. The account will be closed with the Municipality, when the final payment will be made to the contractor for the works done by him.

Arboriculture.—Some new plants have been planted in the Burrakur, Bandgaon, Midnapore, and Joyntigurh roads. Fencings for trees planted in previous years have been repaired. Some dead plants have been replaced by new ones.

The general feature of the maintenance works that are being done at present is the introduction of gravelling portions of the roads every year instead of putting earth (surface dressing). This system improves generally the muddy nature of the soil, and have been tried in the worst portions with success. During my last cold weather tour, I inspected some of the roads, and came to the conclusion that money spent on gravelling is money well spent, and that on roads where there is constant traffic an additional portion should be gravelled every year until the whole road is gravelled. On the ungravelled portions of those roads, and on other roads which are not important enough to be gravelled, surface dressing should be done after the close of the rains by gangs of coolies under a road sircar, and not by giving out the work at so much per mile to contractors, as in the latter case no check can be exercised over the work. Only earthwork repairs, which are more than what would be called surface dressing, should be given out on contract. There was no District Engineer for the last five months of the year, and the works suffered much in consequence.

Considering the mileage extent of the roads in this district, the income available for expenditure annually is quite inadequate to meet the necessary wants. Nearly the whole of the income is taken up for maintenance, and in consequence very little can be done towards repairing or replacing broken culverts or constructing new ones, and on the principal roads there are many works required of this kind, but which for want of funds cannot be undertaken.

* * * * * * *

W. L. SAMUELLS,

Chairman, District Road Cess Committee, Singbhoom.

No. 6.—Part I.

SINGBHOOM DISTRICT ROAD FUND.

Annual Accounts of Income and Expenditure from 1st April 1888 to 31st March 1889.

Receipts.		Amount.	Total.	Expenditure.		Amount.	Total.
		Rs. A. P.	Rs. A. P.			Rs. A. P.	Rs. A. P.
Balance on 1st April 1888 as per cash-book		.....	6,000 9 5	Refunds ...	Of cess	.....	
Provincial rates ...	Cess on lands	3,705 9 6			„ other receipts	.....	
	„ on mines and railways ...	0 3 9		Administration ...	Establishment and contingencies of Committee's office	546 6 9	
	„ on houses	.....		Stationery ...	Stationery and printing	166 9 2	
Public Works ...	Road tolls	.....		Public Works ...	Original works	1,316 5 9	
	Ferry „	.....			Repairs	7,705 3 5	
Irrigation ...	Canal tolls	.....			Establishment	2,142 9 0	
Miscellaneous ...	Rent of serais and bungalows ...	14 0 0			Tools and plant	296 5 6	
	Fees, fines, and forfeitures ...	8 8 0			Arboriculture	130 2 9	
	Miscellaneous	.....		Irrigation ...	Canal toll establishment and contingencies	.....	
Government grant for 1888-89		10,000 0 0		Miscellaneous ...	Staging-bungalow establishment and contingencies	66 0 0	
	Total Receipts ...	13,728 5 3			Do. petty construction and repairs	164 12 0	
					Miscellaneous	118 3 0	
				Contribution to Provincial Government		.....	
					Total Expenditure ...	.....	12,652 9 4
Advances		1,937 10 0		Advances		2,247 0 0	
Deposits		1,050 0 0		Deposits		50 0 0	
Cash from treasury		1,390 2 6		Cash from treasury		1,390 2 6	
	Total Receipts ...	.....	18,106 1 9				3,687 2 6
					Total Disbursements ...	.....	16,339 11 10
				Balance as per road cess cash-book on 31st March 1889 ...		.....	7,766 15 4
	Grand Total ...	.....	24,106 11 2		Grand Total ...	.....	24,106 11 2

S. J. Manook,

Vice-Chairman.

W. L. Samuells,

Chairman, District Road Cess Committee, Singbhoom.

No. 6.—PART II.

SINGBHOOM DISTRICT ROAD FUND.

Details of Income and Expenditure of the year from 1st April 1888 to 31st March 1889 to accompany the annual accounts for the year.

Sub-head of estimate.	Amount as per budget estimate.	Particulars.	Amount.	Total.
	Rs. A. P.	**INCOME.**	Rs. A. P.	Rs. A. P.
Provincial rates	3,705 13 0	Balance on 1st April 1888 as per cash-book	6,000 0 5	
	64 0 0	Cess on lands	3,705 9 6	
Public Works	.....	Do. on mines and railways	0 3 9	
	.....	Do. on houses	..	
Irrigation ...	.....	Road tolls	... .	
Miscellaneous	.....	Ferry do.	.....	
	.....	Canal do	..	
	.....	Rent of serais and bungalows	14 0 0	
	.....	Fees, fines, and forfeitures	8 8 0	
	..	Miscellaneous	..	
Government grant.	10,000 0 0	Government grant for 1888-89	10,000 0 0	
		Total Revenue ...	19,728 14 8	
	.....	Advances	1,937 10 0	
	.....	Deposits	1,050 0 0	
	.....	Cash from treasury	1,390 2 6	
		GRAND TOTAL ...	... ..	24,106 11 2
		EXPENDITURE.		
Administration*	510 0 0	*Establishment and Contingencies of Committee's office.*		
		One accountant for one month at Rs 25 a month	25 0 0	
		One ditto for eleven months, at Rs. 30 a month	330 0 0	
		One peon for 12 months, at Rs. 5 per month, less deduction on account of fines	58 5 3	
		Committee's office, rent for 11 months, at Rs. 2 per month	22 0 0	
		District Engineer's office, rent for 8½ months at Rs. 7 per month ..	59 8 0	
		Purchase of service stamps	8 0 0	
		Ditto of ordinary postage stamps	8 9 3	
		Ditto of receipt stamps	5 2 0	
		Postage charge on bearing covers	1 7 6	
		Petty contingencies	7 8 3	
		Purchase of country stationery	20 14 6	
				546 6 9*
Stationery ...	120 0 0	Price of stationery articles supplied by the Superintendent of Stationery, Calcutta	43 14 3	
		Price of note and measurement books supplied by the Superintendent of Stationery, Calcutta	21 3 9	
		Price of forms supplied by the Superintendent of Stationery, Calcutta	32 1 9	
		Printing charges of annual accounts for the half-year ending 31st March 1887, and for the cess year 1887-88	69 5 5	
				166 9 2†

Distinguishing number of roads.	Original Works.	Amount of estimated cost.	Total outlay to end of previous year.		
		Rs. A. P.	Rs. A. P.		
1	*Midnapore Road (Chyebassa to Bend).*				
Public Works 250 0 0 / +61 8 0	Constructing three new culverts on the 66th and 67th and 69th miles of Midnapore road	900 0 0	649 8 0	311 2 0	
3	*Burrakur Road (Chyebassa to Suborno rekha).*				
950 0 0 / —450 0 0	Subornorekha ghât improvement work .	5,398 0 0	599 10 9	7 15 0	
500 0 0	2 shelter-houses at Roghunathpore and Dugni ...	500 0 0	204 14 6	244 0 0	
150 0 0	1 Shelter-house at Thalko ...	150 0 0	.....	9 12 0	
5	*Bandgaon Road (Chyebassa to Foolhuri).*				
425 0 0	2 Shelter-houses at Chokrodhurpore and Milepir ..	425 0 0	17 7 9	353 8 0	
7	*Jaintgurh Road (Chyebassa to Jaintgurh.)*				
250 0 0	2 Shelter-houses at Gamaria and Jorapukhuria	250 0 0	11 8 9	157 7 3	
1,000 0 0	Road cess and municipal combined office building at Chyebassa, half cost	1,000 0 0	Nil	232 9 6	
	Total Original Works ...	.....	. ....	.....	1,316 5 9
	Carried over ...	.....	.....	.....	2,029 5 8

The excess is by Rs 36, which is due to the office rent paid for three months at Rs. 9 a month over and above the sanctioned estimate and country stationery bought about Rs. 9 over the estimated amount.

† The excess of Rs. 46 under this head is partly due to the purchase of measurement and note books not provided for in the budget, and partly due to the printing charges of annual accounts for which provision was made for only one year

Sub-head of estimate.	Amount as per budget estimate.	Distinguishing number of roads.	PARTICULARS.	Amount.	Total.
	Rs. A. P.		EXPENDITURE—*concluded.*	Rs. A. P.	Rs. A. P.
			Brought forward ...	.....	2,029 5 5
Public Works—*concld.*			*Repairs.*		
		1	*Midnapore Road (Chyebassa to Bend).*		
	2,422 0 0		Maintenance of 71 miles	2,220 12 9	
		3	*Burrakur Road (Chyebassa to Subornorekha).*		
	1,465 0 0		Maintenance of 30 miles	974 5 2	
		4	*Kharsowan Road (Chyebassa to Kharsowan).*		
	130 0 0		Maintenance of 16 miles	222 3 0*	
		5	*Bandgaon Road (Chyebassa to Fooljhuri).*		
	2,045 0 0		Maintenance of 44 miles	1,218 6 9	
	1,700 0 0		Repairs to Roro bridge	1,674 5 6	
		6	*Gurjon Road (Chokrodhurpur to Koksinga).*		
	333 8 6		Maintenance of 51 miles	168 1 0	
		7	*Jaintgurh Road (Chyebassa to Jaintgurh.)*		
	450 0 0		Maintenance of 35 miles	733 3 6†	
		8	*Ramonhatty Road (Chyebassa to Katbari).*		
	150 0 0		Maintenance of 20 miles	256 8 6‡	
	.....		*Village Roads.*		
	100 0 0		Maintenance of village roads	237 10 3§	
					7,705 5 5
	3,000 0 0		*Establishment.*		
			1 District Engineer for one month, at Rs. 150 a month, less income-tax deduction	147 8 0	
			1 District Engineer for seven months, at Rs. 120 a month, less income-tax deduction	822 8 0	
			1 District Engineer for nine days of November 1888, at Rs. 120 a month	36 0 0	
			Travelling allowance of the District Engineer	420 0 0	
			Income-tax deduction from the pay of the District Engineer ...	20 0 0	
			1 Sub-overseer for twelve months at Rs. 25 a month	300 0 0	
			1 Clerk for eleven months at Rs. 20 a month	220 0 0	
			1 District Engineer's office poon for twelve months at Rs. 5 a month, less Re. 1 fine	59 0 0	
			2 Road sircars for one month at Rs. 15 a month	30 0 0	
			1 Road sircar for one month and one day at Rs. 15 a month ...	15 7 6	
			1 Ditto for one month at Rs. 15 a month	15 0 0	
			1 Ditto for three months and twenty-five days at Rs. 15 a month	57 1 6	
					2,142 9 0
	280 0 0		*Tools and Plant and Furniture.*		
			Purchase of 2 lanterns at Re. 1 each, Rs. 2; and 2 at Rs. 2-8 each, Rs. 5.	7 0 0	
			50 Pickaxes at Rs. 15 per dozen	62 8 0	
			5 Crowbars...	9 10 0	
			25 Kodalies	29 2 9	
			1 Spirit level	6 8 0	
			12 Chairs at Rs. 3 each	36 0 0	
			3 Chairs	7 0 6	
			9 Tables at Rs. 6 each	54 0 0	
			Carriage and packing of ditto from Calcutta to Chyebassa	44 14 0	
			2 Stools at 12 annas each	1 8 0	
			7 Khatias	10 12 0	
			1 Filter-stand	1 0 0	
			Carriage of ditto	0 8 6	
			Repairs of tools and plant	25 13 9	
					296 5 6‖
	135 0 0		Arboriculture	130 2 9	
					130 2 0
Irrigation ...	.....		Canal tolls	.....	.....
Miscellaneous	433 12 0		Staging-bungalow establishment	66 0 0	
			Ditto petty construction and repairs	164 12 0	
			Miscellaneous	118 3 0	
					348 15 0
Contribution to Provincial Government.	.....		Contribution to Provincial Government	.....	.....
	.....		Advances	2,547 0 0	
	.....		Deposits	50 0 0	
	.....		Cash from treasury	1,390 2 6	
					3,987 2 6
			Total Disbursements ...	.....	16,339 11 10
			Balance as per road cess cash-book on 31st March 1889	.....	7,766 15 4
			GRAND TOTAL ...	.....	24,106 11 2

* The excess is due to the adjustment of advance of Rs. 124 made in 1887-88.
† Ditto ditto ,, 380 ditto.
‡ The excess is very slight when the fact of adjustment of advance of Rs. 160 made in 1887-88 is taken into consideration.
§ No excess when the fact of adjustment of advance of Rs 200 made in 1887-88 is taken into consideration.
‖ The excess is due to the purchase of 50 pickaxes and 25 kodalies at a higher rate than what was originally estimated for.

Memorandum showing in detail the balance of cash at the close of the year 1888-89.

PARTICULARS.	Amount. Rs.	A.	P.
Balance of cash as per treasury pass-book	7,566	15	4
Add amount of imprest in the hand of the District Engineer	200	0	0
Total ...	7,766	15	4
Deduct amount of outstanding cheques ...	.....		
Net balance as per road cess cash-book ...	7,766	15	4

Memorandum showing in detail the outstanding advances on the 31*st March* 1889.

Date of advances.	Nature of advance.	Amount.	Explanation why the advances are outstanding.
		Rs.	
December 1882	Village road repair	38	I have ordered the amount to be written off this account, as the amount was advanced for petty repairs on a village road. The man to whom it was advanced is dead.
October 1884	Beams for bridges on the Midnapore road.	130	Orders have been sent to the man to whom the amount was advanced either to adjust by account or refund the amount.
January 1887	Juggurnathpore to Jamda road repair.	100	Works have been measured up, and the amount is under adjustment
May 1888	Carriage of iron joists from Calcutta to Chyebassa *viâ* Midnapore.	300	The amount has since been adjusted.
July ,,	Repair of Bamonhatty village road	150	The same remarks as against Rs. 100.
November ,,	Repairs of Bandgaon road ...	50	The work is under measurement.
November ,,	Do. of Gurjon road ...	20	Ditto ditto.
November ,,	Do. of Bandgaon road ...	250	Ditto ditto.
November 1888 and March 1889.	Road cess and municipal combined office building.	1,200	The work is nearly completed, and the amount will be adjusted shortly.
	Total ...	2,238	

Memorandum showing in detail the balances of deposits outstanding on the 31*st March* 1889.

Date.	Nature of deposit.	Amount.	REMARKS.
		Rs.	
3 th March 1889	Chairman, Chyebassa Municipality, on account of payment in part for the combined road cess and municipal office building.	1,000	The amount is to be transferred to the District Road Fund, as soon as the final payment for the work is made.
	Total ...	1,000	

S. J. MANOOK,
Vice-Chairman.

W. L. SAMUELLS,
Chairman, District Road Cess Committee, Singbhoom

No. 125D.R., dated Chota Nagpore, the 12th August 1889.

From—W. H. GRIMLEY, ESQ., C.S., Offg. Commr. of the Chota Nagpore Divn.,
To—The Secretary to the Government of Bengal, Public Works Department.

I HAVE the honour to submit, in original, the annual accounts and reports of the several District Road Committees of this division for the year ending 31st March 1889.

* * * * * * *

3. The aggregate receipts amounted to Rs. 2,81,910-3-1, inclusive of Rs. 93,633-13-9, the closing balance of the previous year, and of Rs. 20,684-3-5, the receipts under the heads of "Advances" and "Deposits." The total expenditure, including advances and re-payments, amounted to Rs. 1,97,151-5. There was thus a balance of Rs. 84,758-14-1 when the year ended.

4. *Original works.*—In Hazaribagh, original works were limited to the construction of an inspection bungalow at Golah and the gravelling of eight miles of the Ramgurh-Golah road. In Lohardugga, three rubble stone and brick masonry bridges of two or three spans each were constructed on the Ranchi-Lohardugga road. In the Palamow sub-division a small bridge of rubble stone and brick masonry abutments and wing walls with sâl timber roadway was constructed. The survey, including the preparation of the plans and sections of the Lohardugga-Chuttra, Ranchi-Chandil, Kuru-Orenga and Daltongunge-Moharajgunge roads was completed. In Manbhoom, the original works consisted of (1) the construction of the Balarampore-Burrabazar road, (2) the metalling of some of the Purulia station roads with quartz, and (3) improving and widening portions of the Manbazar and Bankoora roads within the town of Purulia. In Singbhoom, some masonry culverts were built on the Midnapore road; the work of improving the Subornorekha ghât on the Purulia road was continued and some inspection bungalows were constructed.

5. *Repairs* —In Hazaribagh, 58 miles of five metalled roads, 302 miles of 17 fair-weather roads, and 134 miles of village roads have been maintained and kept in fair order. Approaches to beds of rivers and nullahs crossed by all village roads have been sloped and rendered passable for wheeled traffic. In Lohardugga most of the district roads have been thoroughly maintained by the renewal of wooden platform bridges, the renewal of culverts and the re-excavation of side drains. In some cases the rubble stone and brick masonry abutments of bridges with timber-topped roadways have been thoroughly renewed. Surface repairs have been made wherever necessary. Most of the roads in the Sudder sub-division of the Manbhoom district were repaired and maintained in very fair order. In Singhboom, only surface repairs of the district roads have been made, as owing to the very limited resources of the District Road Committee and the large extent of the roads to be maintained nothing more could be done.

6. Village roads in all the districts have been maintained so far as funds permitted.

7. Attention seems to have been given by every District Committee to arboriculture. New trees have been planted along road sides and those planted in previous years have, in most cases, been maintained.

* * * *

LAND SALE NOTICES.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 31st January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
	Thanas Town and Ran zan—							
2 / 2	Taruf Ajoidhs Ram, Fatha bad.	723 13 6	Yes: the whole estate is to be sold.	.....	Pran Kristo Das, Ram Shahak Das and others.	...	49 8 8	.. ...
	Thanas Patya, Futtick cherry, Hathazari, and Satkania—							
85 / 51	Taruf Alcarkhan ...	1,606 0 0	No: only shares are to be sold.	Separate accounts having been opened under Act XI of 1859, share No. I, Asad Ali Khan; share No. II, Akber Ali Khan; share No. III of the remaining proprietors.	Share No. 1, proprietor Anwar Ali Khan.	466 7 5	.....	139 1 6
					Share No. 2, Asharaf Ali Khan and Jandah Bibi and others.	811 6 3	.....	240 14 2
					Share No. 3, Uzir Ali and Anwar Ali Khan.	326 3 1	.....	96 13 0
								476 12 8
	Thanas Futtickcherry, Hathazari, Patya, Ranzan, Town, and Zowargunge—							
28 / 54	Taruf Anandi Ram, Kanongoe.	849 6 9	Ditto ..	Separate accounts having been opened under Act XI of 1859, share No. 10, Ram Joy Mohazan; share No. 11, Ram Joy Mohazan; share No. 13, Sudder Ali, and share No. 24, Busham bur.	Share No. 10, Kali Kumar, Durga kripa De.	12 11 0	....	3 11 3
					Share No. 11, Kali Kumar, Durga kripa De.	14 14 0	.....	4 6 6
					Share No. 13, Asharaf Ali Aminolla, *alias* Gurun Moah.	11 0 0	.....	3 4 3
					Share No. 24, Kali Kumar and Durga kripa De.	53 15 5	....	16 0 6
								27 7 6
	Thanas Hathazari, Ranzan, and Town—							
29 / 55	Taruf Aziz Nasarat ...	791 12 0	Yes: the whole estate is to be sold.	.....	Sheik Karam Ali Moah.	....	235 0 1	.....
	Thana Futtickcherry—							
37 / 64	Taruf Annundy Manollah	1,160 0 3	Ditto ...	.....	Nemai Charan Nandi, Gunashila.	.....	59 1 6	.....
	Thana Ramzan—							
88 / 391	Taruf Basanta Ram, Fatoubad	557 14 3	Ditto	.....	Anunda Mohon, Samad Ali and Sreemati Meherjan Bibi and others.	.. ...	31 1 0	.....
	Thanas Hathazari, Futtickcherry, Patya, Town, and Satkania—							
92 / 401	Kismut Balaram Sircar Baboit, taruf Sonoullah Khan.	1,063 11 3	Ditto ..	.....	Gris Chandra Rakhit and Guru Das Rakhi	.....	315 12 6	.....
	Thanas Bhatiari, Hathazari, Ramoo, Zorwargunge, Patya, and Satkania—							
116 / 523	Kismut Bissessari Baboit, taruf Gouri Sankur.	1,228 12 9	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 13 of the remaining proprietors.	Share No. 13, Mohabat Ali, Mahamed Hossen, Kali Charan and others.	404 13 11	.....	3 13 6
	Thanas Futtickcherry, Hathazari, Patya, Town, Satkania, and Ramoo—							
287 / 1281	Taruf Jubber Dust Khan ..	6,538 11 9	Ditto ...	Separate accounts having been opened under Act XI of 1859, share No. 1, Fazal Ahamud.	Share No. 1, Fazal Ahamud and Bazal Samad.	2,043 14 5	.. ..	299 13 5
	Thanas Futtickcherry, Hathazari, Patva, and Satkania—							
384 / 1467	Taruf Karim Khan ...	715 12 0	Yes: the whole estate will be sold.	.....	Anwar Ali Khan ..	.....	210 0 0	.....
	Thanas Patya and Satkania—							
286 / 1469	Taruf Komur Kulil ...	1,015 13 0	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 10, Dwarka Nath Kundo.	Dwarka Nath Kundo	68 10 5	.....	20 5 11
	Thana Ranzan—							
375 / 1552	Taruf Kanus Fernandez ..	1,040 5 3	Yes: the whole estate will be sold.	.. ...	Gris Chandra Roy Rakhit, Guru Das Roy Rakhit, and others.	.....	486 15 0	.....
	Thana Bhatiari—							
336 / 1751	Taruf Modun Chowdhury	688 6 5	No: only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 4, Koshalya.	Shib Prosad Shukul	141 10 0	.....	43 0 2
	Thanas Hathazari and Ranzan—							
1889	Taruf Mohomad Shafi Nazir.	558 7 3	Yes: the whole estate will be sold.	.....	Susty Charan Sen, Bhairub Chandra Chowdhury and others.	.....	153 12 3	.....

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder Jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
389 / 1900	Thana Zorwargunga— Taruf Mohomed Monohur	666 15 6	Yes : the whole estate will be sold.	.....	Sreemati Raiso Nissa Chowdhuria.	.....	198 0 0	.....
	Thanas Hathazari, Patya, Ranzan and Town—							
48 / 2432	Kismur Pran Kristo, Gopi Mohun, Guru Das and Haridas Roy Baboit, taruf Jugul Kissor Chowdhury.	5,753 14 6	No : only shares will be sold.	Separate accounts having been opened under Act XI of 1859, share No 2, Akhil Chandra Roy, share No. 6 of the remaining proprietors.	Share No. 2, Akhil Chandra Roy.	331 8 9	.....	118 4 4
					Share No. 6, Gris Chandra Roy, on behalf of minor Bhikon Chandra and Rsof Ali and others.	1,329 2 8	.....	365 4 7
								478 8 11
	Thanas Futtickcherry, Patya, Hathazari, Ranjan and Town—							
	Taruf Pran Ballab .	944 5 5	No : only a share will be sold.	Ditto, share No. 2, Mohesh Chandra Chowdhury	M h sh Chandra Chowdhury and Obhoy Charan Chowdhury and others.	118 0 8	.....	85 0 9
	Thana Ranzan—							
51 / 2538	Taruf Raghob Juggodish	515 0 3	Ditto ...	Ditto, share No. 12 of the remaining proprietors.	Gunga Das, Brejo Mohon and others.	132 2 1	.....	24 3 7
	Thanas Patya, Ranzan, Town, and Hathazari—							
51 / 2544	Taruf Ram Mohon Sen ...	884 11 3	Yes : the whole estate will be sold.	.....	Prasanna Kumar and Ali Meah.	.....	129 13 6	.....
	Thanas Chakaria, Patya, Ranzan, and Town—							
527 / 2554	Taruf Ram Sondur Kanongoo.	849 6 6	No : only a share will be sold.	Separate accounts having been opened under Act XI of 1859, share No. 2 of the remaining proprietors.	Sr.moti Latifa Khatun.	681 6 6	.....	202 3 9
	Thanas Zorwarzunge, Patya, Ranjan and Satkania—							
515 / 2545	Taruf Ram Kishore Kanongoe.	818 11 10	Ditto ...	Ditto, share No 6, Ram Chandra Biswas and Bankshi Badon Biswas.	Mohesh Chandra Bhuttacharjee.	14 11 0	.....	4 5 9
	Thanas Patya and Town—							
569 / 2929	Taruf Sachi Roshun ...	752 11 0	No : shares will be sold.	Ditto, share No. 1, Sheek Sadak Ali ; share No. 2, Keramut Ali.	Share No. 1, Sadut Ali Chowdhury.	82 5 3	.....	24 7 1
					Share No. 2, Anwar Ali Chowdhury.	188 2 9	.....	17 10 3
								42 1 4
	Thanas Bhatiari, Hathazari, Zowargunge, Patya, Ranzan, Town and Satkania—							
573 / 2933	Taruf Sachi Ram Kanongoe.	26 12 9	No : shares will be sold.	Separate account having been opened under Act XI of 1859, share No 1, Lal Mohamed ; share No 16, Dwarka Nath Kanongoe ; share No. 52, Ram Kumar Dey and others ; share No. 83 of the remaining proprietors.	Share No. 1, Lal Mohamed.	4 14 3	.....	1 7 3
					Share No. 16, Dwarka Nath Kanongoe on behalf of Lakhi Narain Chackra.	4 4 6	.....	1 4 3
					Share No 52, Ram Kumar Brejo Nathi	0 10 8	.....	0 2 11
					Share No. 83 of the remaining proprietors Asanullah Chowdhury and others.	236 0 3	.....	82 3 9
								86 7 2
	Thanas Hathazari, Patya, Ranzan and Town—							
590 / 2954	Taruf Shib Durga Sharan .	2,042 3 9	No : only a share will be sold.	Ditto, share No. 8, Shoobal Chandra Das.	Shoobal Chandra Das.	25 14 3	.....	9
	Thana Chakaria—							
606 / 3113	Taruf Sheromast Khan Chowdhuri.	527 6 6	Ditto ...	Ditto, share No. 1, Fazal-ahamed.	Share No. 1, Fazal-ahamed, Nasal Samad and others.	163 10 0	49 2 3	.....

N. B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 25th September 1889.

Chittagong Collectorate, the 14th December 1889.

G. H. ALLEN, for Offg. Collector

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Patna will be put up for sale at the Collector's Office of that district on 3rd February 1890, corresponding with 28th Magh 1297 F S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the list of 28th September 1889 :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
11	Berhna Lashkaripur Busurg, pergunnah Bhimpur.	1,038 0 0	Whole...	.....	Kesho Lal and Kissen Prosad and others.	... ..	0 5 0	.....
12	Berhna Lashkaripur Busurg Nisf, pergunnah Bhimpur.	2,129 0 0	.....	15a. 19d.	Kesho Lal and others, non-applicants.	2,122 5 6	.....	530 13 0
17	Indowt, pergunnah Shahjehanpur.	1,015 0 0	Whole .	.....	Syed Wajid Hosain and others.	.....	9 15 0	.....
20	Sani Hissa Nisf, pergunnah Biswak.	1,255 2 8	.....	1a. 5d. 7k. 17b. 6ph. 10t.	Mussamut Nariran and others, applicants for separation of accounts.	99 15 0	.....	14 4 8
20	Ditto ...	1,255 2 8	.....	1a. 11d. 13k. 6r. 8ph. 9r. 4t. ...	Mussamut Rohiman and others, applicants for separation of accounts	124 2 11	.....	11 10 5
21	Bhadsara, pergunnah Masaudha.	1,814 5 6	.....	Gopepur 1a. 4p.	Hardoot Narain Singh, applicant for separation of accounts.	3 2 5	.....	6 4 10
28	Chainpur Shekhopur Barhampur, pergunnah Azimabad.	913 0 0	.....	Shekhopur 3a.	Rameshwar Singh and others, applicants for separation of accounts.	57 1 0	.....	11 1 8
28	Ditto ...	913 0	.....	Shekhopur 2a.	Ramlollah Singh, applicant for separation of accounts.	38 0 8	.....	0 0 1
28	Ditto ...	913 0 0	.....	Shekhopur 15a. 1d. 11k. 19b. 14ph. 16r. 17rot 10batks. Barhampur 6a. 18d. 6k. 13b. 7ph.	Gowri Shahker and Parwah Singh and others, non-applicants.	210 6 8	.. ...	8 0 6
40	Baxidpur Parthu, pergunnah Tellaidha.	533 5 4	.....	9a. 8p.	Mussamut Jharokha Koer and others, non-applicants.	332 3 6	.....	8 0 5
47	Hissah Chawsanda, pergunnah Biswak.	906 10 8	.....	6a. 16k. 13b. 6ph. 13r.	Malik Zohurul Haq and others, non-applicants.	342 5 0	.....	9 11 3
65	Chak Rudarman, pergunnah Phulwari.	821 5 3	.....	Chak Rudarman 4a. 9d. 3k. 6b. 13ph. 7r. ; Keshwarpur Digha 1a. 3d. 1k. 1b. 5ph.	Sheikh Lal Mohommad and others, non-applicants.	113 13 0	.....	9 8 5
65	Sokhulpur, pergunnah Pilich.	745 11 2	.....	19d. 14k. 4b. 6ph. 5t.	Chowdhry Harbans Narain Singh, applicant for separation of accounts.	24 15 9	... .	1 8 9
65	Ditto ...	745 11 2	.....	6a. 12d. 1k. 15b. 13ph. 19r. 5t. 7tilwari.	Bidhi Chand and others, non-applicants.	306 4 3	.....	1 12 11
69	Poora Chharyari, pergunnah Pilich.	1,008 12	Whoe ..	.....	Baboo Dwarka Nath, Manager, Court of Wards, in charge of the estates of lunatic Debi Prasad.	... .	130 11 4	.....
70	Gobindpur Berhna, pergunnah Bhimpur.	624 0 0	Do. ...	.....	Durga Singh and others.	.....	12 3 0	.. .
78	Deara Mohazee Kothi Shora, pergunnah Azimabad.	854 5 7	.....	4a.	Sheo Persad Singh and others, applicants for separation of accounts.	213 9 5	.....	30 3 4
78	Ditto ...	854 5 7	.....	7a. 1p. 10k.	Mussamut Wolayti Jan and others, non-applicants	380 6 11	.....	14 8 1
98	Doiya, pergunnah Biswak.	1,109 11 0	Whole .	.....	Syed Ali Hossein and others.	.....	8 7 0	.....
101	Kapaiyawan, pergunnah Pilich.	1,813 6 1	.....	14a. 8d. 12k. 13b. 15ph.	Syed Mujibor Rahuman, Manager of the estate of Debi Persad, lunatic, applicant for separation of accounts.	1,635 2 0	.....	74 12 10
102	Kalla, pergunnah Pilich.	854 6 5	Whole ..	.....	Mussamat Sharfan and others.	.....	7 6 2	.. ...
102	Dowlatpur Deoria, pergunnah Ballia.	871 7 0	Do. ...	.....	Mussamut Bibi Makhdooman and others.	.....	19 1 3	.. ...
104	Ekaara, pergunnah Biswak.	1,338 2 2	Do. ...	.....	Mir Enayat Hosain and others.	.....	0 13 5	.....
113	Mohammadpur, pergunnah Pilich.	538 10 8	.....	Mohammadpur 11a. 11d. 10k. ; Sekandarpur 16a. Yarpur Balwa 8a.	Babu Parmidh Narain Singh and others, non-applicants.	399 10 8	.....	3 9 5
126	Ghostawan, pergunnah Biswak.	659 8 11	.....	10a. 11d. 19k. 11b. 18ph. 14r. 2t. ...	Mussamut Fakhran Nissa *alias* Nanhi Begum and others, non-applicants.	486 13 8	.....	10 9 9
128	Norari, pergunnah Pilich.	1,174 6 5	Whole	.....	Babu Paramap Narain Singh and others.	.....	72 6 5	.....
129	Baruhi Khas, pergunnah Manair.	505 2 0	.. ..	11a. 19p.	Reta Singh and others, non-applicants.	415 0 3	. ....	46 11 5
135	Mirzapur Berhna, pergunnah Bhimpur	737 0 0	Whole ..	....	Mussamut Soobansee Koer and Ram Sahai Singh and others.	.....	60 0 9	.. .
135	Khagura, pergunnah Shahjehanpur.	1,495 14 6	Do. ..	.....	Mussamut Bibi Khadija and others.	.....	100 9 3	.....

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
142	Peer Barhawna, pergunnah Pilich.	520 2 8	.....	5a. 12d. 12k. 19b. 9ph. 2r. ...	Mussamut Sharfan and others, non-applicants.	204 3 8	.....	6 2 2
147	Qasbe Barhawna, pergunnah Pilich.	5,712 0 0	.....	Qasbe Barhowna 2a.; Korut 2a.; Harara 2a.; Arawan 2a.; Babhaniawan 2a.; Athbalpur Paithora 2a.	Mussamut Fusehan, applicant for separation of accounts.	714 0 0	.....	0 0 6
147	Ditto ...	5,712 0 0	.....	Qasbe Barhawna 12a. 5d. 2k. 10b. 1ph. 10r.; Korut 11a. 6d. 15k. 10b. 16ph. 10r.; Harara 12a. 17d. 10k. 2b. 7ph. 10r.; Arawan 12a. 17d. 10k. 2b. 7ph. 10r.; Babhaniawan 13a. 5d. 2k. 10b.; Athbalpur Paithora 12a. 5d. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kefayat Hosain, and others, non-applicant.	4,490 10 10	.....	338 0 5
153	Bakawan, pergunnah Gyaspur.	724 4 3	Whole...	.....	Madiput Narain *alias* Munshi Mahto and others.	.....	4 9 0	.....
154	Rampur Imi, pergunnah Pilich.	503 7 6	Do. ...	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Prasad Singh and others.	.....	0 7 6	.....
158	Raipur Astha, pergunnah Pilich.	1,442 2 3	...	3a. 3d. 17k. 13b. 2ph. 10r. ...	Lall Narain Singh, applicant for separation of accounts.	138 13 6	.....	8 8 6
158	Ditto ...	1,442 2 3	.....	Raipur Astha 1a. 15d. 11k. 4b. 10ph.; Astha 1a. 7d. 11k. 15b. 7ph. 2r. 10t.	Shaik Abdul Hamid and others, non-applicants.	126 4 5	.....	0 7 0
169	Rampur Berhna, gunnah Bhimpur.	998 8 0	Whole...	.....	Sham Lal Singh and others.	.....	54 15 0	.....
172	Darveshpura, &c., pergunnah Behar.	832 0 0	.....	Durveshpura 10d. 10k.; Akhtyarpur Bareli 6a.; Gobindpur Bhedi 8a.	Darshan Lal and others, non-applicants.	142 11 7	.....	14 4 10
180	Sernawan, pergunnah Pilich.	587 2 3	.....	5a. 18k. 8b. 5ph.	Perneshar Narain Singh and others, non-applicants.	184 9 3	.....	6 14 2
187	Shekh Mohammadpur, pergunnah Bhimpur.	592 14 0	.....	11a.	Mussamut Saliman and others, non-applicants.	407 9 6	.....	22 3 10
188	Shekh Mohammadpur Hayatpur, pergunnah Bhimpur.	704 10 11	.....	10a. 3d. 11k. 11b. 4ph.	Harakh Narain Singh and others, non-applicants.	448 2 11	.....	69 4 8
201	Pariawna, pergunnah Baswak.	1,700 10 0	.....	12a. 13d. 6k. 13b. 10ph.	Babu Luchmi Narain and others, non-applicants.	1,351 1 9	.....	0 4 3
225	Akberpur Bhadwar, &c., pergunnah Masandha.	3,215 10 9	.....	Akhberpur Bhadwan 16a.; Darawan 4a.; Panoodhi 16a.; Shorampur 10a.; Sherpura 16a.; Hushanpur Lachaman 16a.; Mominpur Na Dawana 16a.; Mascompur Bindowli 16a.; Chak Shamsuddin 16a.; Korara 16a.; Katari Beliari 16a.; Rupapur 16a.; Paigamberpur 16a.; Showdaspur Kurkuri 16a.; Jadapur 16a.; Moazzamabad Bali Pakur 16a.; Durzapur Anant 16a.; Sekaria 16a.; Parsoorampur Heer 16a.; Jalalpur Ilahi 16a.; Rampur Misraoli 16a.; Kishwarpur 16a.; Shahzadpur Mosi 16a.; Atapur Rukun 16a.; Bela Gobindpur 16a.; Alampur Jarkha 16a.; Raghunathpur Mora 16a.; Saidabad Bekram 16a.; Patranga 16a.; Ahmadabad Khoniyan 16a.; Pali Patowna 16a.; Patowna 16a.; Raghunathpur Jag Bandan 16a.; Kaurikesho 16a.; Kishopur 16a.; Masaurha Khas 16a.; Hudumagar 16a.; Nasirpur Bagah 16a.; Bihta 16a.; Abdullapur Khan Qali 16a.; Ganga Chak Mai Nezampur 16a.; Dadoopur 16a.; Mohammadkhanpur Dara 16a.; Fazilpur Patan 16a.; Ibrahimpur Jurga 16a.; Rampur Gunga 16a. Parsoorampur Kanak 16a.; Bishunpur Malshahi 16a.; Sarawti 16a.; Karanpura 16a.	Mussamut Sharfan and others, non-applicants.	204 3 8	.....	6 2 2
227	Narendpur Kharowna, &c., pergunnah Azimabad.	5,885 5 6	.....	Hazratpur Akarya 17a. 15d. 11b. 2p.	Racheya Singh, applicant for separation of accounts.	6 4 4	.....	3 5 3
227	Ditto ...	5,885 5 6	.....	Narondapur Kharownia 2a. 8p. ...	Jagarnath Singh and Raghunath Singh, applicants for separation of accounts.	218 7 10	.....	0 0 9
229	Ditto ...	1,185 5 7	.....	Hiranandpur 16a.	Jagan Lal and others, applicants for separation of accounts.	57 9 8	.....	0 2 7
229	Ditto ...	1,185 5 7	.....	Janarjanpur 2a.; Hazratpur Akhariya 2a.	Ram Lall and others, applicants for separation of accounts.	17 1 8	.....	0 5 8
229	Ditto ...	1,185 5 7	.....	Janarjanpur 2a.; Hazratpur Akhariya 2a.	Surjoo Mahto, applicant for separation of accounts.	17 1 8	.....	1 13 6
251	Amari O, Sain, &c., pergunnah Behar.	737 0 9	.....	Akhtyarpur Pawa 5a. 2d. 10k. ..	Chiranjir Singh and others, non-applicants.	207 11 6	.....	15 2 2
295	Mirzapur Gilani, pergunnah Telladha.	1,318 0 0	.....	7a. 10d.	Moulvi Jalaluddin and others, applicants for separation of accounts.	617 13 0	.....	12 13 3
315	Saidpur Gowhar Chak Madho, pergunnah Azimabad.	503 9 1	Whole...	.....	Syed Ali Ashraf *alias* Peyari Saheb.	.....	1 4 8	.....
317	Mandaoh Gyan Koer, pergunnah Tilladha.	1,087 0 0	.....	8a. 11d. 13k. 6b. 14p.	Shekh Feda Ali and others, non-applicants.	904 15 1	.....	5 4 3
347	Parthee, pergunnah Tilladha.	800 0 0	.....	0d. 7b. 12r.	Syed Khairat Ahmad, applicant for separation of accounts.	15 0 9	.....	0 15 0
347	Ditto ...	800 0 0	.....	3a. 17d. 7k. 5b. 5ph. 12r.	Mussamut Jharokha Koer and others, non-applicants.	190 13 8	.....	0 1 5
335	Khoda Bakhshpur, &c., pergunnah Azimabad.	3,236 0 7	.....	Pir Mohamadpur Diara 10a. ...	Jaggu Lal Upadhia and others, non-applicants.	473 10 7	.....	87 13 11
303	Akbarpur Bhadwar, &c., pergunnah Masawdha.	1,120 4 1	.....	Saidabad 10a.; Kessenpur Baigam 16a.; Abdallapur Khan Quili 16a.	Raja Ram Singh and others, applicants for separation of accounts.	10 2 3	.....	4 6 3
303	Ditto ...	1,120 4 1	.....	Anizabad Haidha 9a. 10d. 7k. 12b.; Shahzadpur Nuri 9a. 10d. 7k. 12b.; Ghowpur Bhadwar 3a. 3d. 9k. 4b.	Ram Kewal Singh and others, applicants for separation of accounts.	38 14 8	.....	2 10 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
363	Akbarpur Bind war, &c., pergunnah Mauwdiha.	1,120 4 1	.....	Dorawan 1*a.* 5*d.*; Saidabad Bekra 1*a.* 5*p.*; Shewdaspur Kurkari 1*a.* 5*d*; Sekaria 1*a.* 3*d.*; Daryapur Aunat 1*a.* 5*d.*	Haichi Kuer and others, non-applicants.	79 11 1	.....	26 13 5
379	Jaipur Hathea Kandh, pergunnah Manah	811 1 6	.....	10*a.*	Gobind Persad and others, non-applicants.	506 14 11	.....	147 7 9
395	Rajpur Hasan Kurji Degha pergunnah Dalwari	8.8 0 2	.....	Kurji Digha 8*a.*	Pitambar Singh and others, non-applicants.	284 7 1	.....	8 6 11
402	Dehri, &c., pergunnah Gyaspur.	3,130 0 0	.....	Dehri Dhanrar Badal Singh 10*a.* 10*d*; Paraswan 10*a.* 1*d.*; Sarajpura 10*a* 1*d.*; Sarhan 10*a.*	Mussamut Fahiman and others, non-applicants	2,192 12 9	.....	10 11 5
	10*d*; Baddo Kesenpur 10*a*; Chak Bamo Hiranand 10*a.* 10*d*,; Chak Bamo Sujar 10*a.* 10*d*; Chak Hanwad Sewdah 10*a.* 10*d.*; Chando Badul Singh Hiranand 10*a.* 1*d.*; Dharafpur 10*a.* 1*d.*; Chak Bhudeo 10*a.* 1*d.*; Gonsa 10*a.* 10*d.*; Sherpur Medhapur 10*a.*; Chatarbhojpur Kesenpur 10*a.*							
410	Ophimapur O. Qasba Helsa, pergunnah Pilich	549 14 1	.....	0*a.* 10*p.* 5*k.* 14*m.* 5*d.* 15*b.*	Ambika Persad Singh and others, non-applicants.	235 10 6	.....	6 1 8
430	Lodipur Hathia Kandh, pergunnah Mamir	730 0 0	.....	6*a.* 8*p.*	Gobind Persad and others, non-applicants.	307 14 8	.....	30 0 0
470	Sartha Manpur Sartha, pergunnah Dilladha.	662 13 7	.....	7*a.* 15*d.* 10*k.*	Jugul Kiswar Singh and others, non-applicants.	322 1 6	.....	1 15 5
478	Ditto ...	540 14 3	Whole.	.....	Mussamut Toola Kuer, mother and guardian of Chattor Singh, and others.	... ..	33 12 11	.....
480	Panchitara, &c., pergunnah Behar.	1,160 9 0	....	Panchitara 2*a.*; Moheuddinpur Deokhali Khard and Buzurg 1*a.*; Bhagpur Owkah 6*a.*; Mosaffer-pur Pitowmaia 2*a*; Kaleyanpur Chistipur Azizullahpur Chistipur 10*d*	Mohammad Sher and others, non-applicants.	70 9 10	.....	10 5 7
497	Poorah Nowan Sepao, pergunnah Behar	1,308 13 0	.....	12*a.* 19*d.* 9*k.* 2*b.* 10*p.*	Mussamut Moriawan and others, non-applicants.	1,134 2 5	....	6 11 7
510	Ocsan, pergunnah Sandi.	957 0 0	Whole	.....	Nawab Syed Latif Ali Khan, C.I.E., and others.	.....	7 14 5	.....
556	Kishunpur Kerawha, &c., pergunnah Gyaspur	781 0 0	.....	14*a.* 10*k.*	Khaje Syed Hassan and others, non-applicants	685 0 5	... ..	11 3 10
572	Sandh, &c., pergunnah Sandha.	706 12 10	.....	Sandh 15*a.*; Rahmatpur Pakri 14*a.* 2*d.* 10*k.*	Mussamut Sharfan and others, non-applicants.	727 11 9	.....	8 2 2
688	Anta Rughuram, pergunnah Gyaspur.	686 10 5	.....	6*d.* 8*k.* 18*b.* 17*ph.* 11*b.*	Hanuman Singh *alias* Chhedi Singh, applicant for separation of accounts.	13 13 3	.....	8 9 3
688	Ditto ...	686 10 5	.....	3*a.* 8*b.* 15*ph.* 12*b.*	Shewnarain and others, non-applicants.	125 3 7	.....	26 7 7
724	Jahangirpur Mugarpal, pergunnah Manair.	2,316 4 4	.....	1*a.*	Rai Monohar Lal and others, applicants for separation of accounts.	144 12 8	.....	0 4 8
724	Ditto ...	2,316 4 4	.....	15*d.*	Sitapat Sahai and others, applicants for separation of accounts.	108 10 0	.....	2 9 4
724	Ditto ...	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 15.	Mussamut Sriana Kuer and others, non-applicants.	230 7 1	.....	10 5 8
726	Yakubpur Toongi *alias* Fatteh Ali Chak, pergunnah Behar	631 0 0	.....	9*a.* 10*p.* 8*k.* 8*b.*	Syed Mohammad Ismail and others, non-applicants.	401 8 0	....	46 9 7
				Second kind.				
733	Erazi Towfir Rampur Ghoghpur, pergunnah Manair.	1,236 5 11	Whole.	.....	Srikewal Singh ..	.....	2,068 13 4	.....
				First kind.				
742	Erazi Beshi Diarah Mahazi Jahangirpur Mugarpal, pergunnah Manair.	1,561 8 4	.....	2*a.* 5*d.*	Kisendyal Lal and others, non-applicants.	219 11 6	.....	13 4 5
779	Saidpur Sonawan, pergunnah Gyaspur.	626 9 2	.....	7*a.* 8*d.* 5*k.* 5*b.* 1*ph.* 7*r.*	Ahmad Hosain and others, non-applicants.	290 4 4	.....	0 6 5
796	Saksohra, pergunnah Gyaspur.	2,154 6 5	.....	Luchmanpur 2*a.* 5*p.* 17*k.* 6*b.* 13*d.*	Mussamut Girja Kuer and others, applicants for separation of accounts.	87 9 11	.....	1 0 6

Patna Collectorate, the 6th January 1890. PEARY MOHAN BANERJEE, Dy. Collr., for Offg. Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad ...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B C,) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Town Khas Mehal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 3rd day of March 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Khas Tehsil Office, Town Circle.

Serial No.	No. of tenures in register No. I.	Names of tenures and their situation.	Annual rental.		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cess.	Rent.	Cess.	Total.	
		Thana town mouzah Bakalya, mehal Noabad.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	887	20134/559 Taluq Manindra Chandra Ghose and others.	3,373 6 0	226 9 0	843 0 0	56 11 0	899 11 0	The entire taluqs will be sold.
		Mouzah ditto, thana ditto.						
2	886A	20134/559(2) Taluq Khetra Moni Dasi and others.	1,135 11 9	44 6 0	284 0 0	11 1 0	295 1 0	
		Thana Patikchir, mouzah Jouskhala, mehal Noabad.						
3	4818	23478/888 Taluq Obedar Rahaman Khan	2,344 0	102 9 0	693 0 0	5 5 9	698 5 9	

Chittagong, the 14th January 1890.

C. H. ALLEN, for Offg. Collector.

Statement of the Affairs of the Bank of Bengal for the week ending 21st January 1890.

LIABILITIES.

		Rs.	A.	P.
Capital paid up		2,00,00,000	0	0
Reserve Fund		58,00,000	0	0
Public Deposits at Head Office	Rs. 98,39,848 8 8			
Ditto ditto at Branches	,, 93,93,460 5 0	1,92,33,308	13	8
Other Deposits at Head Office and Branches		3,33,74,020	12	6
Bank Post Bills, &c.		4,54,524	4	3
Sundries		8,43,609	9	1
Rupees		7,97,06,063	7	6

ASSETS.

		Rs.	A.	P.
Government Securities		20,29,390	0	0
Other authorized Investments		78,67,186	0	0
Loans on Government and other authorised Securities		1,80,24,728	12	1
Accounts of credit on ditto ditto		1,01,80,939	5	10
Bills discounted and purchased		2,08,35,926	13	3
Balances with other Banks		10,72,036	12	7
Bullion		3,96,856	2	6
Dead Stock		12,27,881	2	10
Stamps		13,563	11	0
Sundries		4,83,248	8	0
		6,21,31,757	4	1
Cash and Currency Notes at Head Office	Rs. 60,21,041 9 1			
Cash and Currency Notes at Branches	,, 1,15,53,264 10 4	1,75,74,306	3	5
Rupees		7,97,06,063	7	6

BANK OF BENGAL,
Calcutta, 22rd January 1890.

R. I. BIEN, Chief Acctt.
Rate for Demand Loans 9 per cent.
Percentage 32·6.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.

(3475—1)

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 15th January 1890.

PARTICULARS.	3½ per cent. transfer loan of 1853-54.	4 PER CENT. LOANS							4½ PER CENT. LOANS				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	GRAND TOTAL.
		Of 1832-33.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879 4½ per cent. portion.	Total.			
Balance of 31st December 1889 ..	54,700	11,29,387	25,43,800	2,48,93,600	1,04,02,000	4,06,11,700	2,06,18,900	10,01,99,387	49,700	71,45,500	11,08,16,600	11,80,11,800	1,33,800	32,200	21,84,31,887
ADD—															
Amount enfaced at Madras between 1st and 15th January 1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Amount enfaced at Bombay between 1st and 15th January 1890	.....	.....	.....	.....	1,00,000	1,000	3,000	1,04,000	.....	.....	.....	.....	.....	.....	1,04,000
Amount enfaced at Calcutta between 1st and 15th January 1890	.....	.....	1,000	75,800	62,800	1,03,300	10,500	2,53,400	.. ...	12,500	1,37,500	1,50,000	.....	.....	4,03,400
	54,700	11,29,387	25,44,800	2,49,69,400	1,05,64,800	4,07,16,000	2,06,32,400	10,05,56,787	49,700	71,58,000	11,09,54,100	11,81,61,800	1,33,800	32,200	21,89,39,287
DEDUCT—															
Amount written off in the London registers	.....	.....	19,900	1,06,200	43,900	11,69,000	6,98,500	20,37,500	10,200	10,000	78,500	98,700	.....	.....	21,36,200
Balance on 15th January 1890 ...	54,700	11,29,387	25,24,900	2,48,63,200	1,05,20,900	3,95,47,000	1,99,33,900	9,85,19,287	39,500	71,48,000	11,08,75,600	11,80,63,100	1,33,800	32,200	21,68,03,087

NOTE.—From 9th June 1867 to 15th Nov. 1889—Enfaced from India 6,145 lakhs; re-transferred from London 5,313 lakhs.

,,	16th Nov. 1889	,,	30th	,,	,,	,,	,,	,,	18	,,	,,	,,	,,	12	,,
,,	1st Dec.	,,	,,	15th Dec.	,,	,,	,,	,,	12	,,	,,	,,	,,	22	,,
,,	16th	,,	,,	31st	,,	,,	,,	,,	9	,,	,,	,,	,,	11	,,
,,	1st Jan. 1890	,,	15th Jan. 1890		,,	,,	,,	,,	5	,,	,,	,,	,,	21	,,
									6,189					5,379	
									5,379						

Balance against India ... 810 lakhs.

PUBLIC DEBT OFFICE, BANK OF BENGAL,
Calcutta, the 20th January 1890.

(3472—1)

W. D. CRUICKSHANK,
Secretary and Treasurer.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 14	50 Cases, J W in a diamond	Order ...	S. S. "Clan Drummond."
,, 14	1 Bundle wood, no mark	Ditto ...	Ditto.
,, 14	1 Bag, N	Ditto ...	Ditto.
,, 14	47 Rain-water pipes, M & E	Ditto ..	Ditto.
,, 16	26 Bales, J L & S in a diamond	Ditto ...	S. S. "City of Calcutta."
,, 16	1 Case, 184 in a diamond, A B & Co outside ...	Ditto ..	Ditto.
,, 16	1 Cask, C in a double triangle, R P outside ..	Ditto ...	Ditto.
,, 16	1 Case, R. S. Elliot, Esq., Dewan, Silchar ...	Addressed ...	Ditto.
,, 16	2 Cases, G C P	Order ...	Ditto.
,, 16	17 Packages, H by Assam	Ditto ...	Ditto.
,, 16	1 Case, A. T. M. Issack, Esq., care of Messrs. M. Lean & Co, Silchar.	Addressed ...	Ditto.
,, 16	1 Bend pipe, R C G	Order ...	Ditto.
,, 16	2 Cases, L O C K E	Ditto ...	Ditto
,, 16	1 Case, Miss Lizzie Thomson, Cawnpore ...	Addressed ...	Ditto.
,, 16	1 Case, M & E	Order ...	Ditto.
,, 19	1 Case, M in an inverted triangle	Ditto ...	Ditto.
,, 16	5 Packages, no mark	Ditto ...	Ditto.
,, 16	21 Kegs, N C J in a diamond, G A & Co. outside ...	Ditto ...	Ditto.
,, 16	3 Casks, no mark, or R X X P or C in a double triangle, R K P top.	Ditto ..	Ditto.
,, 16	1 Case, 793 in a diamond, W L below	Ditto ...	Ditto.
,, 16	1 Parcel, M T in a diamond	Ditto ...	Ditto
,, 18	1 Parcel, Messrs. Mitchel Reid & Co.	Addressed ...	Ditto.
,, 18	1 Rundlet, N M	Order ...	Ditto.
,, 18	1 Rundlet, H M & Co.	Ditto ...	Ditto.
,, 16	2 Cases, C R by 832	Ditto ...	S. S. "Niobe."
,, 16	1 Case, 932 in a diamond	Ditto ...	Ditto.
,, 16	2 Cases, E by 107 in a triangle, M B top, L S & Co. below.	Ditto ...	Ditto.
,, 16	3 Cases, H A M S in a diamond	Ditto ...	Ditto.
,, 16	2 Cases, K C B	Ditto ..	Ditto.
,, 16	1 Case, P B	Ditto ...	Ditto.
,, 16	3 Cases, S J	Ditto ...	Ditto.
,, 16	1 Case, S by 45 in a diamond, C H below ...	Ditto ...	Ditto.
,, 16	1 Case, 1538 in a block within a triangle ...	Ditto ..	Ditto.
,, 16	1 Case, 1399 in a block within a triangle ...	Ditto ...	Ditto.
,, 16	1 Case, H M	Ditto ...	Ditto.
,, 16	1 Case, J W	Ditto ...	Ditto.
,, 16	1 Case, 461 in a triangle, C H L & Co. top ...	Ditto ...	Ditto,
,, 16	11 Bags, no mark or X	Ditto ...	Ditto.

Port Commrs'. Office, Calcutta, the 27th January 1890. (3484—1) G. H. SIMMONS, Vice-Chairman.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sâl beams and scantlings supplied from this depôt will be as follows :—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS— From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates :—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates :—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

District Charitable Society.

Abstract of Accounts for the month of December 1889.

RECEIPTS.	December 1889.	From 1st January to 31st Dec. 1889.	PAYMENTS.	December 1889.	From 1st January to 31st Dec. 1889.
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
Subscriptions—					
From Government	1,200 0 0	14,400 0 0	District Committee's monthly grant ...	1,206 4 9	14,629 14 4
,, Port Commissioners ...	200 0 0	2,400 0 0	Native Committee, monthly grant ...	1,599 10 8	19,283 8 0
,, Calcutta Municipality ...	100 0 0	1,200 0 0	Ditto, refund of deposit ...	22 8 0	257 0 9
,, the Public	633 0 0	14,337 0 0	Commissioner of Police, for casual relief and Rations	338 10 0	4,219 7 3
Donations	747 0 0	5,327 12 0	Booking Clerk, E. I. R., Howrah, for Ry. passes	30 0 0	415 0 0
Allowances towards cost of establishment—			Casual relief through President ...	.....	46 0 0
From Government	250 0 0	3,000 0 0	Pensions paid through Central Office ...	335 0 0	4,056 0 0
,, Mutiny Relief Fund	50 0 0	600 0 0	Schooling-fees	49 0 0	675 2 0
Alms House proceeds	45 5 3	772 2 3			
Interest on invested Funds ...	16 0 0	680 0 0	Alms House:—Establishment	377 0 0	4,524 0 0
,, on Trust Funds	1,168 15 1	32,572 2 7	Dieting	920 1 0	11,601 4 0
Legacies	.....	.....	Contingencies	143 2 9	2,345 10 6
Government grant for Leper Asylum medicines	.....	100 0 0	Boots and shoes (Female Ward) ...	.....	66 0 0
Miscellaneous receipts	0 4 3	8 6 7	Clothing and bedding ...	30 0 0	411 8 0
Mutiny Relief Fund, for pensions ...	475 0 0	5,500 0 0	Municipal taxes	70 3 0	307 12 0
Deposits and Advances	572 18 11	2,927 6 11			
Native Committee's Deposit	.....	214 0 0	Leper Asylum:—Establishment ...	158 0 0	1,856 0 0
Government grant for Leper Asylum repairs	345 2 6	345 2 6	Dieting	388 12 0	5,107 8 0
			Medicines, contingencies and repairs ...	116 11 0	1,896 2 3
			Clothing and bedding ...	319 0 0	319 0 0
			Municipal taxes	23 6 6	102 10 0
			Central Office:—Establishment ...	454 8 0	5,450 0 0
			Commission on collections	28 8 10	576 15 2
			Auditing fees	.....	300 0 0
			Rent	30 0 0	360 0 0
			Contingencies ...	37 5 0	638 9 5
			Printing and advertising	21 0 0	260 3 9
			Interest on overdraft	39 6 8	504 12 9
			Bank's commission	1 15 5	62 5 2
			Law charges	.....	.....
			Mutiny Relief Fund pensions	464 0 0	5,496 0 0
			Deposits and advances	346 1 11	2,591 13 1
Total ...	5,823 9 0	84,784 1 3	Total ...	7,622 5 5	88,998 6 3

MEMO.

	Rs. A. P.		Rs. A. P.
Receipts as above	84,384 1 3	Payments as above	88,998 6 3
Overdraft in Bank of Bengal on the 31st December 1889, Rs. 13,027-6-3 *less* Rs. 107-4-3 cash balance on that date	12,920 2 0	Overdraft in Bank of Bengal on 31st December 1888, Rs. 8,972-14-7, *less* Rs. 680-5-0 cash balance on that date	8,305 12 7
Total ...	97,304 3 3	Total ...	97,304 3 3

CALCUTTA,
The 4th January 1890.

K. MALLIKA,
Accountant.

PATRICK McGUIRE,
Secretary.

WANTED a Sub-Overseer for the District Works, Maldah, on Rs 40 pay and Rs. 10 horse allowance. None need apply who is not a passed Sub-Overseer and has sufficient practical experience in road works. All applications, with copies of testimonials, must reach the undersigned on or before the 10th February 1890.

JOGENDRO NATH GHOSH, District Engineer.
(3473—2)

Wanted.

A THIRD Clerk for the Office of the District Board, Shahabad, for 4 months, on a salary of Rs. 20 per mensem.

Candidates must write a good hand and know the ordinary office duties.

Applications with copies of testimonials to be received by the Chairman of the District Board till the 7th of February 1890.

S. M. NASSIRUDDIN, Vice-Chairman,
(3481—1) District Board, Shahabad.

Notice

IS hereby given that the post of a Mohurir of the Collectorate Munshikhanah is vacant. The pay of the post is Rs. 20, rising by biennial increments to Rs. 40. Candidates are required to submit applications with testimonials on or before the 5th February 1890.

K. P. SINGAR, Deputy Collector,
for Officiating Collector.
Tipperah Collectorate, the 22nd January 1890.

Notice.

WANTED a Second Clerk for the Sub-divisional Office, Nattore, District Rajshahye. Salary Rs. 30 rising to Rs. 50 by a biennial increment of Rs. 2. None need apply who does not possess experience in Account Department. Applications with copies of testimonials to be sent to the undersigned before the 10th February 1890.

MOHIM CHANDRA GHOSH, Sub-divisional Officer.
Dated Nattore, the 11th January 1890.

Notice.

IT is hereby notified, under Section 5 of the Indian Treasury Trove Act (VI of 1878), that on the 28th September 1889, thirty Dasarikattur rupees were found by one Bhupati Lachumaya and others of Bhupati Lakshmipuram, on the public patta in the street of the village of Bhupati Lakshmipuram, Varanasi Khandam, Parlakemedi Taluq, Ganjam district, Madras Presidency.

All persons claiming the said treasure, or any part thereof, are hereby required to appear personally or by duly authorized agents before the Collector of Ganjam, on Monday, the 2nd June 1890, in order to the matter being enquired into and determined in accordance with the provisions of the said Act.

A. W. B. HIGGINS, Acting Collector.
CHATRAPUR, *the 18th January* 1890.

JOGENDRA NATH SEN, M. A., B. L., intends to apply for enrolment as a Vakil of the High Court.
(3444—4)

Abstract Statement of the Uncovenanted Service Family Pension Fund for the Fourth Quarter ending 30th April 1889, compared with the corresponding quarter of the year 1888.

PARTICULARS.	For the 4th quarter ending 30th April 1889.	For the 4th quarter ending 30th April 1888.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Balance at credit of the Fund on the Government books at the end of the previous quarter	1,03,52,383 3 9	99,71,839 0 3	3,80,544 3 6	... ...
ADD—				
Subscription from February to April in the Widows' Fund ...	1,30,141 7 3	1,27,157 2 1	2,984 5 2	.....
Ditto ditto Children's Fund ...	85,816 8 3	84,910 6 9	906 1 6	.....
Entrance fees, &c.	353 14 0	532 14 8	.....	179 0 8
Amount of fine imposed under rule 40A	6 9 9	68 6 0	.....	61 12 3
Amount of pensions received with interest from Government of India on behalf of widows and orphans who came upon the Fund during the late mutiny of 1857 ...	2,651 7 9	2,651 7 9	.....	.....
Amount of interest drawn from the Government of India for the year ending 31st March 1889	6,19,890 3 3	5,98,086 2 6	20,834 0 9	.....
Amount of divisible surplus transferred to debit of subscribers in the Widows' Fund...	649 8 0	47 4 0	602 4 0	.....
Ditto ditto Children's Fund ...	170 4 0	340 8 0	.....	170 4 0
Total Receipts ...	8,39,009 14 3	8,14,694 3 9	25,326 11 5	411 0 11
GRAND TOTAL ...	1,11,91,992 2 0	1,07,86,533 4 0	4,05,870 14 11	411 0 11
DEDUCT—				
Pensions payable to incumbents in the Widows' Fund ...	95,663 6 4	94,904 8 6	758 13 10	.....
Ditto ditto Children's Fund ...	66,862 12 4	66,642 4 4	.....	179 8 0
Establishment, including office-rent and contingencies ...	8,909 13 5	8,697 9 7	212 3 10	.....
Loss by exchange on remittances to England	17,941 3 1	19,329 10 1	.....	1,388 7 0
Amount of fine written back	.....	91 0 4	.....	91 0 4
Amount of divisible surplus in the Widows' Fund written back	171 12 0	.....	171 12 0	.....
Ditto ditto Children's Fund ...	61 8 0	.....	61 8 0	.....
Total Payments ...	1,88,610 7 2	1,89,065 0 10	1,304 5 8	1,658 15 4
Net Balance in favour of the Fund	1,10,03,381 10 10	1,05,97,467 3 2	4,04,656 9 3	1,247 14 5
Proportion of divisible surplus payable to qualified subscribers	81,474 0 0	85,288 14 0	.....	3,814 14 0

	Widows' Fund.	Children's Fund.	Widows' Fund.	Children's Fund.	Widows' Fund.	Children's Fund.	Widows' Fund.	Children's Fund.
Number of subscribers	1,569	1,027	1,565	1,024	4	3	.....	...
Number of incumbents	455	665	451	675	4	.....	.....	10
Number of subscribers sharing divisible surplus	1,213	790	1,165	787	48	3	.....	...

	Rs. A. P.
Net increase in receipts	24,915 10 6
Net decrease in payments	464 9 8
Net increase in balance	4,05,914 7 8

E. E.
EDMUND H. LLOYD, } *Auditors, U. S. F.*
R. A. FINK, } *Pension Fund.*

Published by order of the Directors,

G. W. MACLEOD, *Accountant.* W. H. RYLAND, *Secretary.*

UNCOVENANTED SERVICE FAMILY PENSION FUND OFFICE, the 10th January 1890. (3478—1)

Tirhoot State Railway.

Account of Government Promissory Notes held as security deposit by the Examiner of Accounts on the 31st December 1889.

Name of Depositor.	Designation.	4 per cent of 1868.	REMARKS.
		Rs.	
Babu Kangali Charan Singh.	Head Cashier ...	3,500	
,, Upendra Nath Roy.	Assistant Cashier	2,000	
,, Ram Ranjan Mukherjee.	Pay Clerk	2,000	
,, Bhobo Kali Roy ...	Ditto	2,000	
,, Kamoda Nath Biswas.	Ditto	1,000	
,, Tarapodo Chowdhury.	Assistant Cashier, Sitamarhi Extension.	1,000	
		11,500	
Account of Government Promissory notes held as security deposits for temporary purposes.			
Messrs. Kedar Nath Banerjee, & Co.	Store Contractor,...	200	Deposited in the Bank of Bengal for safe custody.

B. C. GHOSE, for Examiner.

Road Cess Notification.

DISTRICT PUBNA.

IT is hereby notified that under section 38 of the Cess Act, as amended by the second schedule of the Local Self-Government Act III (B.C.) of 1885, the District Board of Pubna have determined that road cess in that district for the cess year 1890-91 shall be levied at the maximum rate, viz., one-half anna on each rupee of the annual value of lands, and of the annual net profits from mines, quarries, tramways, railways and other immoveable property as enumerated in section 6 of the Cess Act.

W. FIDDIAN, Chairman.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act No. III (B.C.) of 1885, the District Board of Shahabad have, by a resolution of their meeting held on the 13th of January 1890, determined to levy road cess for the year 1890-91 at the maximum rate of six pies in the rupee on the annual value of lands, mines, &c.

S. M. NASSIRUDDIN, Vice-Chairman, District Board, Shahabad.

Dated Arrah, the 18th January 1890.

Excise.

NOTIFICATION.

1. The right of retail sale of the Liquors and Drugs specified below will be put up to auction at the Opium Sale-room, Board of Revenue, 2, Bankshall Street, on Tuesday, the 11th February 1890, and subsequent days, in the following order :—

Name of article.	Date of sale.			
Country Spirit	Tuesday,	11th February 1890, commencing at 11 A.M.		
	Wednesday,	12th	ditto	ditto ditto.
	Thursday,	13th	ditto	ditto ditto.
Rum and Imported Liquor by glass ...	Friday,	14th	ditto	ditto ditto.
Ganja, Siddhi, Charas, Majum ...	Monday	17th	ditto	ditto ditto.
	Tuesday,	18th	ditto	ditto ditto.
Opium, Madak, Chandu	Wednesday	19th	ditto	ditto ditto.
	Thursday,	20th	ditto	ditto ditto.
Tari	Friday,	21st	ditto	ditto ditto.
	Saturday,	22nd	ditto	ditto ditto.

2. A complete list of all the shops for which licenses will be offered and a copy of each form of license are open to general inspection at the Office of the Superintendent of Excise Revenue, 4, Bankshall Street, and the number of these shops is not under any circumstances to be increased during the term of three years ending the 31st March 1893, except under the sanction of the Commissioner of Excise, Bengal, in each case. The Superintendent of Excise Revenue, however, reserves to himself the right, in case of combination, or for other cause, to transfer, before its settlement, any shop from the locality specified, to some other locality in the neighbourhood, being within a distance of 150 yards from the advertised shop or premises, provided that in cases of re-sale the transfer does not bring the shop within a quarter of a mile of any other similar shop which has been settled at any previous sale and the term of whose license is unexpired.

3. It is not at present intended to open any other shop during the term of the license; but the Superintendent of Excise Revenue does not absolutely bind himself in this respect. On special cause shown, and with the sanction of the Commissioner of Excise, Bengal, in each case, the number of shops may be increased : provided, however, that, whenever a new shop is opened, it will be optional to the holder of a similar license for the sale of Liquor or Drugs, if his shop is within a quarter of a mile of the new shop, to surrender his license without forfeiting his advance, when the Superintendent of Excise Revenue is to re-settle the shop by auction or otherwise.

4. The right of retail sale of the Liquors and Drugs is to be put up to auction at upset prices sanctioned by the Commissioner of Excise, Bengal.

5. The right of retail sale of the Liquors and Drugs is to be put up to auction in separate lots of one or more shops either in the order specified in the list, or in such other order as the officer conducting the sale may deem fit. When one lot has been sold, the next lot is not to be put up until the sum payable in advance on account of the lot already sold has been actually paid : provided, however, that where the sum payable exceeds Rs. 25, a promissory note may be taken from any respectable and well-known purchaser in lieu of cash payment.

6. The purchasers of the right of retail sale of Country Spirit, Rum, and Imported Liquors are entitled to sell Imported Liquors by the glass only, the liquor to be drunk *on* the premises

7. The auction is to be held subject to the following conditions :—

(*a*)—That the Superintendent of Excise Revenue does not bind himself to accept the highest or any bid.

(*b*)—That the settlement with each accepted purchaser will, in Calcutta and the Suburbs, be contingent on the production by him of the usual Police certificate or license as the case may be, viz.—

For Excise licenses for—	If to be held in Calcutta, a Police certificate in the form prescribed by section 30, Act IV (B.C.) of 1866, must be produced; and if to be held in the Suburbs, a Police certificate in the form prescribed by section 19, Act II (B.C.) of 1866, must be produced.
Doasta	
Rum	
Imported Liquors by glass	
Tari	
Ganja	
Siddhi	
Charas	
Majum	
For Excise licenses for—	If to be held in Calcutta, a Police license in the from prescribed by section 39, Act IV (B C.) of 1866, must be produced; and if to be held in the Suburbs, a Police license in the form prescribed by section 22 of Act II (B.C.) of 1866 must be produced..
Opium	
Madak	
Chandu	

(*c*)—That the person accepted as the purchaser is to state in writing, within seven days from the date of settlement, in what building he purposes to open his shop, and is at the same time to submit a plan showing clearly and distinctly what building or portion thereof he desires to be covered by the license, it being understood that the removal of shops to other premises than those named in the list attached to this notification will be contingent on the approval of both the Excise and Police authorities, and that any sum which has been paid as an advance of the license fee under the provisions of clause (*d*) of these conditions will be returned to any person to whom a license may be subsequently refused for Police reasons.

(*d*)—That the term of the license is to be for three years ending the 31st March 1893, and that, except in the case of Tari, the license fee for that period is to be paid in advance in the following instalments:—namely, the sum equivalent to the fee for two months, at the time of sale, and one month's fee on the date on which the currency of the license commences, and one month's fee on the 1st day of every succeeding month, until the whole of the fee due on the license shall have been paid. In the case of Tari only one month's fee is to be paid in advance at the time of sale, and fifteen days' fee on the date on which the currency of the license commences, and the rest of the fee in half-monthly instalments, viz., on the 1st and 16th day of every month, until the whole of the fee due on the license shall have been paid. This condition is to be strictly enforced in future, and failure to comply with it is to be met by immediate cancelment of the license.

(*e*)—That the purchaser is not to be entitled to receive back any portion of his advance in the event of his shop being closed before the expiration of the term of the license on violation of any of the conditions of the license, or his being convicted of a non-bailable criminal offence, or of any offence against the Excise laws or rules; and in the case of the surrender of a license under Act VII (B.C.) of 1878, the licensee is to give fifteen days' previous notice in writing to the Superintendent of Excise Revenue, and pay a sum equal to the license fee for fifteen days, over and above the amounts already paid in advance; and in the case of the surrender of a license under Act I of 1878, the licensee is to give one month's previous notice in writing to the Superintendent of Excise Revenue, and pay such fine not exceeding six months' license fees as the Superintendent of Excise Revenue may adjudge, over and above the amounts already paid in advance.

(*f*)—That the currency of the license is to commence on the 1st April 1890 on which date the purchaser is to open his shop, in all respects prepared for the accommodation of customers, to be certified by an Excise Officer—failure to comply with this condition is to be met by the immediate cancelment of the license and the forfeiture of the deposit, except in the case of delay caused by the non-issue of the Police certificate or Police license, for which a reasonable extension of time may be allowed upon application and cause shown to the Superintendent of Excise Revenue.

(*g*)—That where the amount of the sum payable in advance is required to be paid at once in cash, and the bidder fails to make such payment, the officer conducting the sale is either immediately to put up the lot again for sale, or after the other lots in the list have been disposed of, or he may postpone the sale to such future date as he shall then and there notify; and the defaulting purchaser is to be debarred from bidding for such lot or for any other lot, and he is not to be allowed to remain in the auction-room; and that the defaulting purchaser will be liable for any loss that may accrue to Government in case it becomes necessary to re-sell a lot at a lower rate either in consequence of his failure to deposit the sum payable at the time of sale, or to redeem his promissory note on or before 4 P.M. on the day following that on which the note was signed.

(*h*)—That the purchasers are to adhere to all the provisions of the Opium, Excise and Police laws, and of the rules which have been or may from time to time be prescribed by the Board of Revenue.

8. All sales subsequent to the date of the triennial sale in March are to be held subject to the conditions contained in this notification, so far as they may be applicable.

9. Any further information regarding the auction may be had on application at the Office of the Superintendent of Excise Revenue.

D. G. BONNERJEE,
Superintendent of Excise Revenue,
Calcutta, the Suburbs, Howrah, and Bally.

OFFICE OF THE SUPDT. OF EXCISE REVENUE; 4, BANKSHALL STREET, CALCUTTA, *the* 15*th January* 1890.

Notification.

IT is hereby notified that under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Dacca have at their Special Meeting, held on the 11th January 1890, determined to levy the road cess in this district for the ensuing financial year 1890-91 at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

L. HARE, Chairman.

Dacca District Board's Office, the 11th January 1890.

Notice.

THE Directors have made the following changes in the Bank's Establishment:—

Mr. W. D. McKewan to be Acting Agent at Bombay, *vice* Mr. Slater employed on special duty.

Mr. N. H. Y. Warren to be Acting Agent at Cawnpore, *vice* Mr. McKewan.

W. D. CRUICKSHANK, Secretary & Treasurer.

Bank of Bengal, Calcutta, the 27th January 1890.

(3486—1)

Stolen.

THE Government Promissory Note No. 160426, of the 4 per cent. of 1865, for Rs. 1,000, and the Government Promissory Note No. 205964, of the 4 per cent. of 1865, for Rs. 1,000, the former originally standing in the name of the Bank of Bengal, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, the proprietor, by whom it was never endorsed to any other person; the latter originally standing in the name of the Comptroller-General, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, by whom it was never endorsed to any other person. Payment of the above Notes, and the interest thereupon, have been stopped at the Public Debt Office, Bank of Bengal, and application is about to be made for the issue of duplicates in favour of the proprietor.

SOORENDRA NATH MOOKERJI, Resident of Berijhatty under Serampore, zillah Hooghly, at present residing at Dholy *vid* Dholy P. O., zillah Mozufferpore.

(3425—3)

Destroyed.

THE Government Promissory Note No. 029771 of the 4 per cent. loan of 1879 for Rs. 500, standing in the name of Baboo Sarbessur Mitra, the proprietor, by whom it was never endorsed to any other person. Payment of the above note and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for the issue of duplicates in favour of the proprietor after twoyears from date of last advertisement.

(2520—3) SARBESSUR MITRA, Asansol.

Lost.

INTEREST Warrants Nos. 229507 and 229506, dated 4th January 1890, for Rs. 20, issued in satisfaction of 49½ years' interest on Government Promissory Notes, Nos. 238858 and 188252, aggregating Rs. 1,000 of the 4 per cent. loan of 1865 in the names of Russick Lal Dutt and Kheero Monee Dassee respectively.

(3449—3)

Lost.

INTEREST Warrant No. 225465, dated 6th November 1889, for Rs. 200, issued in satisfaction of 49½ years' interest on Government Promissory Notes Nos. 187095, 188231, B. 140933, 251834, 223046, 228904, 234405, 238124 and 194586, aggregating Rs. 10,000 of the 4 per cent loan of 1865 in the name of H Hastings.

GILLANDERS, ARBUTHNOT & Co, Calcutta.
January 14th, 1890. (3450—3)

In the Court of Baboo Nuffer Chandra Bhutta, Subordinate Judge, zillah Backergunge.

EXECUTION CASE No. 258 OF 1889.

Aubenash Chandra Roy and others, decree-holders, *versus* Bindabun Chandra Chakravarti and others, judgment-debtors.

TO be sold in the above case by the Nazir of the District Judge's Court of Backergunge, in his salehouse, at 12 o'clock on the 19th day of February 1890, the right, title and interest of the judgment-debtors for the satisfaction of decree for Rs. 1,22,947-10 9, in the following properties.—

(1). Six annas 2 gundas 2 kowries share of taluq No. 1585, Radhakrishna Ray, Haranunda Ray, and Kallidas Shedhyanta, on the revenue roll of the Backergunge Collectorate, and situate in kismut Kachua within the jurisdiction of Sub-Registry Office and police station Pirijpur, pergunnah Bozergomedpur, bearing annual sudder jumma of Rs. ! 32-12-7 pies.

The right, title and interest of the judgment-debtors Nos. 1, 2, 3 and 4.

(2). Twelve annas share of eight annas five gundas ancestral and two annas moodafut, Guru Churn and Nobin Chandra Das of Osut taluq No. 4550 on the revenue roll of the Backergunge Collectorate, and situate within the jurisdiction of Sub-Registry Office and police station Guleshakhalli, in pergunnahs Bozergomedpur-Juft-Dariabad and in mouza Kookoa and Khakdone, bearing annual sudder jumma of Rs. 4,706-10-9.

The right, title and interest of the judgment-debtors Nos. 2, 3 and 4.

(3) Four annas share moodafut, Guru Churn and Nobin Chandra Das of taluq Abad Tapura, No. 4603 on the revenue roll of the Backergunge Collectorate, and situate within the jurisdiction of Sub-Registry Office and police station Guleshakhalli, in pergunnah Jafrabad Rafianagar *samila* Chandradeep and in mouza Tapura, bearing annual sudder jumma on the advertised share Rs. 707-8 and on the whole estate Rs. 2,830.

The right, title and interest of the judgment-debtors Nos. 1, 2, 3 and 4.

NUFFER CHANDRA BHUTTA, Subordinate Judge.
The 23rd January 1890. (3482—1)

In the Court of Baboo Nuffer Chandra Bhutta, Subordinate Judge, zillah Backergunge.

EXECUTION CASE No. 218 OF 1889.

Ram Chandra Shaha and others, decree-holders, *versus* E. O. Panioty and others, judgment-debtors.

THE undermentioned properties of the judgment-debtors will be sold in the above case by the Nazir of the District Judge's Court of Backergunge, in his salehouse on the 19th February 1890, at the hour of 12 A.M., for the realization of judgment debt Rs. 8,422:—

(1.) Twelve gundas 1 kora 1 krant 15¾ dhur out of 2 annas 13 gundas 3 koras and 3 krants of zemindari pergunnah Chundradeep and Jafrabad, Rafianagur, No 1721 of Backergunge towji, bearing sudder jumma Rs. 13,961-5-10 pies. This 12 gundas 1 kora 1 krant 15¾ dhur has been registered as 12 gundas 1 kora 1 krant 15¼ dhur under Act VII of 1876. That is, 3 annas 13 gundas 1 kora 1 krant share of the said 2 annas 13 gundas 3 koras 3 krant, taken as an entire sixteen annas. The sudder jumma of this share is Rs. 3,189-6-8 pies. This property is situate in mouzahs Afalkati, Bhatshala, Choradi Chotua, Durgapasa, Katudia, Badalpara, and others within the jurisdiction of the Sub-Registrars of Barisal, Angaria, Backergunge, Patuakhally, Gulishakhally, Nulchitty, Jhalokatty, Palardi, Shoroopkatty, Banoripara, Pirijpur, Bowful, Patarhat and others, and the Police stations of Kotowalli, Mehendigunj, Gournaddy, Nulchitty, Kewari, Jhalokatty, Backergunge, Shahebgunge, Bowful, Kholishakhally, Golachepa, Shoroopkatty, Angurpur and others.

(2.) Twelve gundas 3 koras 1 krant 11¼ til out of 2 annas 16 gundas 1 krant share of zemindari pergunnah Chandradeep and Jafrabad, Rafianagar, No. 1722 of Backergunge towji, bearing sudder jumma of Rs. 14,464 10-1¼ pie This 12 gundas 3 koras 1 krant 11¼ til has been registered as 12 gundas 3 koras 1 krant 11¼ til under Act VII of 1876. This is, 3 annas 13 gundas 1 kora 1 krant share of the said 2 annas 16 gundas 1 krant share of the zemindari taken as an entire sixteen annas. The sudder jumma of this share is Rs. 3,314-12-11¾ pies. This property is situate within the mouzahs Angaria, Badalpara, Afalkati and others, and within the Sub-Registrars and Police stations aforesaid.

NUFFER CHANDRA BHUTTA, Sub-Judge.
Dated 22nd January 1890. (3476—1)

In the Court of the Subordinate Judge of Rajshahye.

EXECUTION CASE No. 136 OF 1889.

Sri Nath Bagchee, Executor to the estate of Shib Chandra Bagchee, deceased, decree-holder, *versus* Raja Tarakeswar Ray, judgment-debtor.

THE right, title and interest of the above judgment-debtor in the undermentioned property will be put up to sale on the 15th February 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Rajshahye, in the Court-house of the District Judge, for a debt of Rs. 3,867-15-3:—

1. Two annas thirteen gundas one cowrie one kranti share of kishamut Taherpore, pergunnah Taherpore, within the jurisdiction of the Thanah Bagmarah and Sub-Registry Office Beauleah, bearing towji No. 207, and paying, in the aforesaid share of the judgment-debtor, Government revenue Rs. 5,235-3-0, and paying on the entire property Government revenue of Rs. 31,411-2.

The aforesaid share of the judgment-debtor in the above-named property is liable to following incumbrances:—

(1) A mortgage in favour of Sarada Mohan Moitra for a bond debt of Rs. 4,000 on the 5th Aswin 1291.

(2) A mortgage in favour of Syam Lal Ghose and Shook Lal Ghose for a bond debt of Rs. 3,000 on 15th Chaitra 1291.

(3) A mortgage in favour of Syama Shundari Debi, wife of Ananda Lal Sanyal, for a bond debt of Rs. 2,000 on 16th Chaitra 1294.

And the aforesaid share of the above-named property, together with other properties belonging to the judgment-debtor, is liable to—

(1) A mortgage in favour of Sarada Kanta Chowdry for a bond debt of Rs. 10,000 on the 26th Asar 1295.

(2) A charge of Rs. 200 a month in the shape of monthly allowance created by an agreement, dated 1st Sraban 1290, executed by the judgment-debtor in favour of Rani Jagadiswari Debya.

B. C. CHATTERJEE, Subordinate Judge of Rajshahye.
The 23rd January 1890. (3480—1)

In the Court of the Subordinate Judge of Beerbhoom.

EXECUTION CASE No 85 of 1889.

Ray Dhonput Sing Bahadoor, decree-holder, *versus* Radhika Prosad Singha and others judgment-debtors.

THE undermentioned property of the judgment-debtors will be sold by the Nazir of the Judge of Beerbhoom, at his sale-room on Saturday, the 1st March 1890, at 12 o'clock, for realization of the decretal amount Rs. 1,483-14 3 :—

The right, title and interest of the entire shares of the judgment-debtors in kishmat Kalior, division Nalhatty, entered in towji No. 612 of the Beerbhoom Collectorate, and bearing a sudder jumma of Rs. 661-7-7 held in the name of the judgment-debtors.

KEDAR NATH CHATTERJEE, Subordinate Judge.
Sub-Judge's Office, Beerbhoom, the 23rd January 1890.
(3479—1)

Holta Tea Company, Limited.

PROCEEDINGS of the Extraordinary General Meeting of the Shareholders of the above Company, held at the Registered Office, No 5, New China Bazar Street, Calcutta, on Wednesday, the 22nd January 1890, at 12 o'clock noon.

PRESENT:

Messrs. W. H. Fitze; J. Hay; C T Wallis, by his Attorney A. H. Wallis; N. J. Valetta; G. C. Farr; A. Watkins, by his Attorney G. C Farr; and J. Reid, by his Attorney J. Hay.

Proposed by Mr. G C. Farr, and seconded by Mr. C. T. Wallis, by his Attorney Mr. A H. Wallis—

"That Mr. W. H Fitze take the Chair"—*Carried.*

The notice convening the Meeting was read—

1st Resolution.—Proposed by Mr. A. Watkins, by his Attorney Mr. G. C. Farr, and seconded by Mr. John Hay—

"That the purchase by the Company of the Chota Bundla Tea Estate at the price of Rs. 2 ,000 be and the same is hereby approved and confirmed"—*Carried.*

2nd Resolution.—Proposed by Mr. C T. Wallis, by his Attorney Mr. A H. Wallis, and seconded by Mr. N. J. Valetta—

"That the Directors of the Company be and they are hereby authorized and empowered to execute for and on behalf of the Company, and to affix the seal of the Company to an Indenture of Mortgage over the Chota Bundla Tea Estate, and also to a Promissory Note in favour of the vendor to secure the payment to him of the balance of the purchase-money thereof, viz., Rs. 19,000, within four years from the date of such mortgage, together with interest on the said sum of Rs 19,000 at the rate of five per cent. per annum, payable half yearly, and also to do and execute for and on behalf and in the name of the Company all other acts, deeds, and things necessary for the completion of the said purchase, and the security for the balance unpaid of the said purchase money"—*Carried.*

With a vote of thanks to the Chairman the Meeting closed.

(3474—1) W. H. FITZE, Chairman.

Bishnauth Tea Company, Limited.

NOTICE is hereby given that an Extraordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Wednesday, the 19th February 1890, at 12 o'clock noon, for the purpose of declaring an *ad interim* dividend on account of season 1889, and transacting such other business as may be brought before the meeting.

By order of the Board.
WILLIAMSON, MAGOR & Co., Secretaries.
Calcutta, 21th January 1890. (3477—2)

Arcattipore Tea Company, Limited.

NOTICE.

THE Ordinary Annual General Meeting of Shareholders of the above Company will be held at the Registered Office of the Company, No. 7, Church Lane, Calcutta, at noon of Friday, the 30th January current.

J. MACKILLICAN & Co., Secretaries
CALCUTTA, 21st January 1890. (3483—1)

Notification.

TO be peremptorily sold by the Registrar of the Calcutta High Court, Original Civil Jurisdiction, on the 1st of March, at the hour of 12 o'clock at noon, pursuant to a decree and order made in suit No. 48 of 1883 (wherein Haran Chunder Nye is plaintiff and Moulvie Zohurrul Hossein is defendant), and dated respectively the 5th March 1883 and 22nd May 1889, the following properties :—

1. No. 9, European Asylum Lane at Taltollah in Calcutta, being a parcel of tenanted land in holding No. 220, Block 2, South Division, the area of which is by estimation 1 bigha 5 cottahs 15 chittacks and 2 feet, be the same a little more or less, and the annual jumma or revenue in respect of which, payable to the Calcutta Collectorate, is Rs. 7-14-6, and which property is bounded on the north by a Government drain; on the south by the said European Asylum Lane; on the east by the house and premises of Mr Gordon, now the property of Mahomed Yussuff, and on the west by the house and premises of Mr. Bigg, now the property of Gobeer Wahid Khan.

2. Nos. 28 and 29, formerly Nos. 23 and 24, Taltollah Lane in Calcutta, being all those two messuages, tenements or tenanted houses, together with a piece or parcel of land in holding No. 153, Block No. 9, South Division, the area of which is by estimation 10 cottahs 4 chittacks and 24 feet, be the same a little more or less, and the annual jumma or revenue in respect thereof, payable to Government, is Rs. 1-14-11, and which property is bounded on the south and east by the said Taltollah Lane; on the west by the premises and land of the defendant Moulvie Zohurrul Hossein, and on the north partly by the land of Jan Khan, and partly by the land of Gour Moody, and partly by the land of Mashoor Barber.

The abstract of title and conditions of sale may be seen at the Office of the Registrar of the High Court (Original Jurisdiction), and at the Office of Baboo Gonesh Chunder Chunder, Attorney for the plaintiff, on any day before the sale, and will be produced at the sale.

R. BELCHAMBERS, Registrar.

G. C Chunder, Plaintiff's Attorney.
Calcutta High Court, Original Jurisdiction, the 16th January 1890. (3485—1)

NOTICE is hereby given that Mary Stephen, who obtained a decree *nisi* on the 23rd January 1890 in the High Court for dissolution of marriage against her husband S. S. Stephen, has revoked and cancelled the power-of-attorney which she executed in his favour, and that the said S. S. Stephen has no authority to act as her attorney in any matter whatsoever. Any payment of money therefore to the said S. S. Stephen on account of the said Mary Stephen will not be recognised.

GONESH CHUNDER CHUNDER, Attorney for Mary Stephen.
Calcutta, the 27th January 1890. (3494—3)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of POORUN MULL and another, insolvents.

On Saturday, the 21st day of December last, it was on the petition of Ram Bux, Ram Chand, and Golap Chand, creditors of the said insolvents, adjudged that the said insolvents have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

H. C. Chick, Attorney. (3469—2)
Chief Clerk's Office, the 21st January 1890.

In the matter of GOBINDO CHUNDER MITTER and GOPAL CHUNDER MITTER, insolvents.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvents, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 3rd day of February next, at the hour of half past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvents desirous of opposing such application must appear before the said Court at the time and place aforesaid."

N. G. Newgie, Attorney. (3487—1)

In the matter of GOSTOBEHARY SEAL, of No. 2, GOBIND CHAND DHUR'S Lane, Calcutta, a trader in piece-goods and also clerk, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 9th day of January instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

N. C. Bose, Attorney. (3488—1)

In the matter of CHUNDERCHURN DASS and another, insolvents.

On Saturday the 11th day of January instant, it was ordered that the hearing, of this matter do stand adjourned until Saturday, the 1st day of February next, and that the order made in this matter for the *ad interim* protection of the said insolvents from arrest be enlarged to the said 1st day of February next, and that the said insolvents are at liberty to amend their schedule and estate paper filed in this matter, and that the said insolvents do then attend to be examined before the said Court.

Insolvents in person. (3489—1)

In the matter of THOMAS STEWART, an insolvent.

On Saturday, the 23rd day of November last, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

Sanderson & Co., Attorneys. (3490—1)

In the matter of AUGUSTUS WALL HOFF, an insolvent.

On Saturday, the 11th day of January instant, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic, Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

S. J. Leslie and Son, Attorneys. (3491—1)

In the matter of RAMESSUR SHAW, an insolvent.

On Saturday, the 23rd day of November last, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

Insolvent in person. (3492—1)

In the matter of Heera Lall Sen, an insolvent.

On Saturday, the 1st day of December 1888, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

Insolvent in person. (3493—1)

Chief Clerk's Office, the 28th January 1890.

Insolvency Notice.

NOTICE is hereby given that the undermentioned Dividend is lying unclaimed :—

Estate JOOGUL KISSORE SEWLALL *and* FUTTEHCHAND, *insolvents.*

No.	NAME OF CREDITOR.	Amount of claim.	1st Dividend at Rs 20 per cent.
6	Ghasiram	Rs. A. P. 3,394 0 0	Rs. A. P. 678 12 0

(3471—1) A. B. MILLER, Official Assignee.

POSTAL NOTICES.

Unclaimed Letters held in the Calcutta General Post Office on 28th January 1890.

Albrechs, A.
Butterfass, G.
Caroll, W F.
Dickson, Mrs. E.
Lang, S.
Schiebler, C.
Smith, H. & Co.
White, C W
Willard, Clifford.

Letters marked Care of "Post Office."

Atkinson, F. S.
Barragerey, L.
Barker, F. W.
Bather, H. R.
Baxter, Mrs.
Bear, W.
Bell, A G.
Brearey, James.
Brewster, Mrs.
Belitski, R.
Berkeley, C. M.
Boland, J.
Brown, W.
Burrows, C. J.
Burns, Alan.
Carrapaett, Mr.
Chatterton, J.
Church, E M.
Comar, Mrs. A.
Cooper, H. J.
Cooper, W.
Courage, R.
Davis, Mrs. G.
Devitre, D. F. D.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Duclere, G. P.
Dunlo, Viscount.
Dymond, G. F.
Earl, T. S.
Elliott, K.
Fisk, F. M.
Flaherty, O. H.
Fletcher, Neil.
Forshaw, H.
Fraiser, H. C.
Fraiser, Miss F.
Francis, A. M.
Franzini, Madame A.
Gellett, Cecil S.
Glover, W. E.
Godwin, George.
Gow, J. F.
Green, W. W.
Hamilton, J. R.
Handcock, J. G.
Hardman, G. D.
Hunter, H. C.
Hardy, Mrs. M.
Hawksworth, Mrs.
Henderson, W. H.
Hilton, R W.
Horus, Miss M. L.
Jackson, T.
Johannessen, O. C.
Keane, J. J.
Kennard, F.
Kleine, Henri.
Lach, R.
Lamb, E. G.
Langer, J. O.
Lindeman, L. K.
Livesey, Thomas.
Livewright, R.
Lloyd, Willis.
Long, W.
Lyons, G. B. C.
Major, A
Mackenzie, J.
MacBrayne, L.
Manual, A. M.
May, J. J.
Matthews, J. R.
Mathewson, F.
McAdoo, Mr.
McKenzie, Mrs D.
McNair, Miss.
McSmith, D.
Menzies, C.
Morshead, L.
Murling, T. J. R.
Murphy, John.
Newby, C. R. A.
Ogden, J.
O'Mealy, Capt. D'Oyly.
Penn, Mrs.
Platts, Mrs. S. K.
Powell, F.
Prenter, Miss.
Ray, J.
Rawlings, E.
Rennard, J. R.
Ricket, Mrs
Robart, P.
Robinson, G.
Rogerson, Miss A.
Roskell, Richard.
Rubie, Phil C.
Sano, T.
Sevestre, J.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Skinner, R. H.
Smith, M. O.
Soares, F. H.
Stebbing, Capt. Arthur.
Sweet, L.
Taylor, C.
Thomas, G. T.
Thomson, Captain W. A.
Thompson and Co.
Thompson, G.
Uphill, T.
Ursite, Johan.
Waddell, Alex.
Walker, A. B.
Walter, F.
Walter, Amherst.
Webster, Mrs.
White, H. J.
Williams, J.
Young, Mrs. G.
Williamson, C.

Registered Letters.

Burrows, C. J.
Edwards, C.
Guiseppe, Celestini.
Hemming, Lt. Col. D.
James, L. R.
MacBrayne, L.
MacLeod, D. J.
Marsland, W.
Menzies, C.
Rinle, Harryton.
Smith, M. Oswald.
Zucker, Moses.

Unclaimed Letters held in the Barrackpore Post Office on the 27th January 1890.

Baker, E.
Balfour, H. T.
Coulter, A.
Dubery, E.
Lindsay, W. C.
Martin, Mr.
Mathuson, J.
Pregent, Mr.
Robertson, Jas.
Sullivan, Lieut.
Thomas, Major C.
Thompson, Jas.

E. HUTTON,
Presidency Postmaster, Calcutta.

Mails for	Date of closing at Calcutta.	Route by which despatched
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom..	4th Feb. ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	3rd ,, ...	Ditto
Ceylon, Straits Settlements, Netherland-India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	10th ,, ...	Ditto.
Australia, New Zealand, and Tasmania	10th ,, ...	Ditto.
Madras and Colombo ...	5th ,, ...	Per P. & O. steamer *Rosetta*
Straits China and Japan ...	6th ,, ...	Per str. *Wingsang*.
Rangoon and Moulmein ...	4th ,, ...	Ditto *Kistna*
Ditto ditto ..	31st Jan.	Ditto *Purnea*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	29th ,, ...	Ditto *Pachumba*.
Port Blair	29th ,, ...	*Vid Madras*.
Ditto	4th Feb. ...	*Vid Rangoon*.

N. B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster

General Post Office, the 28th January 1890.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 24th January 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	1 3	At mouth entrance practically closed.
	Thence to Nurpur	1 6	Dhopipara.
	From Nurpur to Jungipur ...	1 6	Nurpore.
	,, Jungipur to Berhampur	1 3	Patanpara.
	,, Berhampur to Cutwa ...	2 0	Kaligunge.
	,, Cutwa to Nuddea ...	2 3	Patooly.
Bhyrab-Jelinghi.	Entrance from Ganges ...	6 0	
	Thence to Akriganj	5 6	
	Akriganj to junction of the Bhyrub and Jelinghi ..	4 6	Junction.
	Thence to Patkabari	5 0	Amtola.
	Patkabari to Nuddea	4 0	Kalinagur.
Matabanga.	Entrance from Ganges ...	2 0	
	Thence to Chuypara	1 0	Ramkistopore.
	From Chuypara to Shikarpur	0 6	Pr ep re.
	,, Shikarpur to Boalia ..	0 9	Shampore.
	,, Boalia to Chuadanga .	2 6	Bhalmari.
	,, Chuadanga to Kismengunj and Hanskhali	2 6	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet	Feet.	Below zero.
Ganges.	Sahebganj ...	25-1-90	6	0 66	67 34	
	Rampore Hoalia	25-1 90	12	1·25	43 25	
	Entrance of Bhagirati	25 1 90	7	2 50	47·81	
	Entrance of Bhyrub-Jelinghi a	25-1-90	...	7 42	45 78	
	Entrance of Matabunga ..	25-1-90	.	2·75	.	
Bhagirati...	Berhampur ...	27-1-90	12	2 66	36 45	
Jelinghi ...	Kishnaghur ...	24-1-90	.	4 46	13·35	
	Saroopgunge ...	25-1-90	6	3 75	8·05	
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R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.

The 24th February 1886.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 18th January, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

The HON'BLE F. B. PEACOCK.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

RULES FOR THE CONDUCT OF BUSINESS.

THE HON'BLE SIR CHARLES PAUL moved that the Report of the Select Committee appointed to consider and amend the Rules for the Conduct of Business at the Meetings of the Council be taken into consideration.

The Motion was put and agreed to.

The HON'BLE SIR CHARLES PAUL also moved that the Rules be considered for settlement in the form recommended by the Select Committee.

The Motion was put and agreed to.

HIS HONOUR THE PRESIDENT said :—"Before putting the next question to the vote, I wish to say a few words. I am sure we are much indebted to the Select Committee for the care they have taken in considering these rules for the conduct of business.

"In going through the details there is only one point which struck me, on which I thought an alteration might possibly be made; and about that, as I am not quite sure I have understood the Rules correctly, I should like to have the opinion of the learned Advocate-General, or any other legal Member of the Council. It is a point which concerns me as President.

"In Rule 25 it is stated that 'when an amendment upon any motion is moved, or when two or more such amendments are moved, the President, when taking the sense of the Council thereon, shall read the terms of the original motion and of the amendment or amendments proposed.' So far it is all right, and I have no objection to it.

"Then the Rule goes on to say, 'and before putting any other question, shall put the question that the original motion shall stand without amendment.' After that it says:—'If that question is decided in the affirmative, the motion shall be put to the vote without amendment;' and in Rule 26 it says: 'When any one amendment is affirmed, the question shall be put to the vote and amended accordingly.'

"Now, if I have read this rule correctly, it imposes upon the President the necessity of first taking the opinion of the Council not on any one of the amendments, but upon the motion as it originally stood; that is to say, on a section of a Bill probably as amended by a Select Committee. In nine cases out of ten it would be that.

"If there is a question which strongly divides public opinion, we shall find, as a matter of practice, that a Select Committee generally takes a view which is a mean between two extremes Let us say as an illustration, though it is not likely to happen, that a Select Committee recommends that a certain appointment shall carry a salary of Rs. 500 a month. That would probably be the mean between two extremes—one extreme being that the appointment shall not be a paid appointment at all, and another extreme that the appointment shall be paid Rs. 1,000 per mensem. If I have understood this rule correctly, I shall first have to put the motion to the Council that the pay of the appointment shall be Rs. 500. The effect of that, of course, would be to combine against that motion the advocates of the two extremes that the appointment shall not be paid, and that it shall be paid Rs 1,000. Clearly the middle term would be thrown out. Whereas we know well from our own experience that when either of the extreme parties find that they cannot have their own way, they would much rather adopt the middle term than that the opposite extreme party shall have their way.

"If, on the other hand, it is at the discretion of the President to put any one of the amendments or the original term first as he chooses, it will then give an opportunity of taking the opinion of the Council as to the views of the two extreme parties without forcing them to combine against the middle term. But if you begin by voting upon the middle term, and then go to the extremes, if the two combine first against the one, and then against the other, you will be left in a dilemma, out of which you cannot possibly extricate yourself, and there will be no means of getting the views of the two opposite parties upon the recommendation of the Select Committee.

"The proposal I shall make to you will be that in Rule 25 after the first word 'proposed,' the next ten lines be left out down to the words 'amended

accordingly'; and that the following words be substituted for them, namely:—'It shall be in the discretion of the President to put first to the vote either the original motion or any of the amendments which may have been put forward.'

"I should like to have the opinion of gentlemen who are more accustomed than I am to the way of doing business at public meetings, and as to the legal effect of the words which I have proposed, before I ask you to accept them. I only throw this proposal out for discussion, and not as one which I ask you to accept on my authority."

THE HON'BLE SIR ALFRED CROFT said:—"This proposal seems to me likely to get rid of a difficulty which is presented by the amended Rules as proposed by the Select Committee. These Rules (25 and 26) are a reproduction, without any change, of the existing rules. But they present certain inconsistencies which arise, as it seems to me, from the use of the word 'amendment' in two senses. It is well known that in Parliamentary usage the word 'amendment' means one thing, while in the popular sense it means quite another. According to the usage of Parliament the word 'amendment' means a proposal to alter the terms of a question by adding certain words, by omitting certain words, or by substituting certain words for certain other words. And then in voting on that amendment, you are in fact not voting on any substantive question, but only upon the form that you wish that question to take on which you are afterwards to vote as soon as its terms are settled. Dr. Smith in his 'Handy Book on Public Meetings' describes the practice of Parliament as follows:—

'The object of an amendment is to change more or less the nature of the question before the House. . . . Thus, in voting upon any amendment, whichever way a man votes he does not help to carry any question, but only decides what the question shall be which he shall have an opportunity of carrying. He does not support the original question by voting against its being amended;'

to which it may be added that, in voting for an amendment, he may do so with the object of afterwards voting against the question as so amended.

"Such then is the Parliamentary usage. The popular meaning of the word 'amendment' as it is used in India, and often at public meetings in England, is different. A proposal is put before the meeting, and against that is brought forward a counter or rival proposal, which is called an amendment. Both are discussed together, and then at the close of the debate the Chairman puts one of the two propositions (generally the amendment) to the vote of the meeting. If it is carried, the substantive question is carried; if it is lost, the original proposition is put to the vote with a similar object and result. The two meanings of the term 'amendment' are perfectly clear and distinct, but the word seems to be used in these rules sometimes in one sense and sometimes in another.

"In Rule 23, which provides that 'any member may, by motion, propose for the determination of the Council any original question or any amendment of such question,' it is probable, though the point is not quite clear, that the intention is to employ the term 'amendment' in the Parliamentary sense, namely, an alteration of the terms of the question.

"Now go on to Rule 25 which says:—'When an amendment upon any motion is moved, or when two or more such amendments are moved, the President, when taking the sense of the Council thereon, shall read the terms of the original motion and of the amendment or amendments proposed, and before putting any other question shall put the question that the original motion do stand without amendment.' That clearly points to the Parliamentary usage. The President first puts the question, that the original motion do stand without amendment; in other words, he asks the Council to decide the form which the question shall take. Then the rule goes on to say:—'If that question is decided in the affirmative, the motion shall be put to the vote without amendment;' that is to say, when it has been decided that the form of the question shall not be altered, the motion is to be put to the vote in the form in which it originally stood, and at this second stage it is put of course as a substantive motion.

"If, on the other hand, the rule goes on to say, the question that the original motion do stand without amendment is decided in the negative, that is, if it is decided that the question shall be amended, you would naturally expect that the next point to be settled would be the form the question should take. But that is not so, we find; for at this point the rule changes over to the popular method of procedure. It says:—'If not (that is, if there is to be an alteration in the terms of the question) the motion shall be put to the vote as proposed to be amended;' that is to say, the motion is at once to be put to the vote in its alternative form, and the voting on it will decide the substantive question.

"But now go on to Rule 26 which says:—'When any one amendment is affirmed, the question shall be put to the vote and amended accordingly.' On neither interpretation of the word 'amendment' can I attach any sort of meaning to that clause. The question has already been amended, because the amended question has been before the meeting. More than that, the question has been put to the vote and disposed of, so that there is nothing more to be done; and consequently Rule 26 seems to me to have no meaning whatever as it stands. If, indeed, the rule means, as is probably the case, 'when any one amendment is affirmed, the question *shall be amended accordingly and put to the vote*,' this would no doubt be in accordance with Parliamentary practice, but it would be in direct contradiction with what has preceded in Rule 25, according to which the question has already been put to the vote and disposed of.

"The rules as they stand are consequently open to serious objection. It would, perhaps, not be difficult so to alter them as to bring them into consistency both with Parliamentary usage and with one another. But I am not sure that it is necessary to adopt the Parliamentary usage here; and on the whole it seems to me that the difficulty can be removed quite as effectually by the proposal which His Honour the President has made, and which is in conformity with popular practice."

THE HON'BLE SIR HENRY HARRISON said:—"The Hon'ble Sir Alfred Croft has given an excellent dissertation on the academical or theoretical side of the question before the Council, and I am glad to say that my experience of the practical side of the question bears out the wisdom of adopting the amendment proposed by His Honour the President.

"I have had considerable experience for some time of the practical way of dealing with a large number of simultaneous amendments; and I may say that the difficulty is partially insoluble, because sometimes you have amendments of such a kind that you cannot get the real view of the meeting upon them, as each party will vote for their own particular proposal. But the best solution lies in the amendment now proposed, because it is necessary when there are many amendments to select and to put them in such order that the views of the meeting may be clearly obtained; and it seems best that the power to do so should rest with the President of the assembly.

"For example, in the Municipality we had a certain rule for electing candidates to office. Each candidate whose name was proposed was put up and voted for; then the next and the next, till some one candidate got an absolute majority of votes. The result was that the candidate whose name was put up first had no chance, because the supporters of all the other candidates combined against him, and so on, each successive candidate having a better chance as he would get some support from the friends of the candidates already rejected. And therefore the candidates made careful calculations as to the order in which their applications should be sent in and appear in the lists, as upon that depended their chance of obtaining a number of votes from amongst the supporters of those whose names were put forward before. Similar manœuvring may be practised as regards amendments if they have to be put according to any hard-and-fast rule.

"Much the best remedy therefore is that which leaves it entirely to the President to decide which shall be put first, whether the first, second, or third amendment, or the original motion, in order to get at the sense of the meeting."

[His Honour the President asked Sir Charles Paul, as the oldest Member of the Council, whether in his experience Rules 25 and 26 have ever once been worked?]

THE HON'BLE SIR CHARLES PAUL said:—"I do not know about these Rules having been used in practice. The Select Committee adopted the existing rules with such modifications as presented themselves for consideration. They did not turn their attention to these Rules from the point of view which His Honour the President has put before the Council, and it appears to me that the proposal framed to amend these Rules is a perfectly correct proposal, namely, to give the President the right to put amendments to the Council in any order he thinks proper.

"There are cases in which it is necessary to put the amendment first, and that could not be done under the existing rule, but I may add that in point of practice the rule does not seem to be generally followed; and under these circumstances I have no objection to these Rules being amended as proposed, and it seems to me most expedient to do so."

His Honour the President then moved that, the words 'It shall be in the discretion of the President to put first to the vote either the original motion or any of the amendments which may have been brought forward' be substituted for the following in Rules 25 and 26:—

'And before putting any other question shall put the question that the original motion do stand without amendment.

'If that question is decided in the affirmative, the motion shall be put to the vote without amendment. If not, and there be but one amendment proposed, the motion shall be put to the vote as proposed to be amended; or if there be more than one amendment proposed, the question shall be put that the motion be put to the vote as proposed by the amendment which the President thinks may most conveniently be first disposed of, and so, if necessary, of all the others.

'When any one amendment is affirmed, the question shall be put to the vote and amended accordingly.'

The Motion was put and agreed to.

The HON'BLE SIR ALFRED CROFT moved that in Rule 13, the words 'No Member in debate shall name another Member' be omitted.

He said:—"I do not know whether it is desirable to retain these words as the rule has never been observed in practice."

The HON'BLE MR. NOLAN said:—"I submit that it will be better to alter the practice; naming a Member in a certain stage of a discussion may be objectionable."

The HON'BLE SIR HENRY HARRISON said:—"In a rowdy assembly there would be objections to naming a Member, and in such a case it would be better to preserve the rule. But if you have a well-ordered assembly, it is better to have no such rule. It all depends upon the character of the assembly. I do not think any actual inconvenience will result from naming members in this Council."

The amendment being put, the Council divided:—

Ayes.	*Noes.*
The Hon'ble Raja Rameshwar Sing Bahadur.	The Hon'ble H. Pratt.
The Hon'ble Dr. Rash Behary Ghose.	The Hon'ble T. T. Allen.
The Hon'ble Shahzada Mahommed Furrokh Shah.	The Hon'ble P. Nolan.
The Hon'ble C. H. Moore.	
The Hon'ble Dr. Mahendra Lal Sircar.	
The Hon'ble Sir Alfred Croft.	
The Hon'ble Sir Henry Harrison.	
The Hon'ble F. B. Peacock.	
The Hon'ble Sir Charles Paul.	

So the Motion was carried.

The HON'BLE SIR CHARLES PAUL moved that the Rules, as now settled in Council, be passed.

The Motion was put and agreed to.

CALCUTTA AND THE SUBURBAN POLICE SUPERANNUATION FUNDS BILL.

THE HON'BLE SIR HENRY HARRISON moved that the Bill to consolidate the Calcutta and the Suburban Police Superannuation Funds, as settled in Council, be passed.

He said:—"The Bill was discussed and passed at the last meeting of the Council with a small amendment of a formal character proposed by myself, and I see no possible objection to its being passed now"

The Motion was put and agreed to.

CALCUTTA PORT BILL.

HIS HONOUR THE PRESIDENT said:—"The next question on the notice paper is the discussion upon the motion that, the Report of the Select Committee on the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port, be taken into consideration.

"But I might mention that in considering the dissents of the two Hon'ble Members who have affixed separate memoranda to the Report of the Select Committee, I got the very valuable assistance of the learned Advocate-General, and we had an informal meeting last week with the Members of the former Select Committee, who were by that time *functi officio*. The result was that a fresh clause was drafted to meet, as far as possible, the objections taken to the original one. It is the clause which you see in the notice paper in the name of the Hon'ble Sir Henry Harrison.

"But in the course of this week the Hon'ble Mr Moore applied to me, requesting that the discussion of the matter might be postponed, as the Chamber of Commerce wished to consider the section in its latest form and to take legal opinion upon it. I am quite sure you will all agree with me that it is better to give ample time for consideration rather than to have a debate in this Council which can be avoided, and certainly rather than to have it said that we are hurrying the measure through the Council unnecessarily.

"I therefore took it upon myself to tell the Hon'ble Member that there will be no discussion to-day, and that the consideration of the measure will be postponed to the next meeting of the Council."

The consideration of the Report was, therefore, further postponed.

BENGAL VACCINATION BILL.

THE HON'BLE SIR HENRY HARRISON presented the Report of the Select Committee on the Bill to amend the Bengal Vaccination Act, 1880, and Bengal Act II, 1887.

He said:—"As a matter of fact, although this Bill is mainly a formal one, the Select Committee have made considerable changes in it. Our colleague, the Hon'ble Mr. Nolan, whom I am now permitted to name without any breach of rules, pointed out the effect of the various provisions of the Act, and has recorded a note on the subject; and the result of our consideration has been that we found first that the formal object of the Bill would be better attained not by substituting 'Calcutta' for the 'Town of Calcutta,' but by simply altering the definition of the 'Town of Calcutta,' and omitting the definition of 'the Suburbs:' and then we found no necessity for touching the amended Act at all. Because though the amending Act does refer to the Suburbs, it refers to it in a sense which requires no actual definition; it merely applies to sailors coming to the Suburbs or the Town of Howrah.

"The effect of removing the definition of the 'Suburbs of Calcutta' would not raise any difficulty in the two places in which the words are found. The words would merely remain as meaning (precincts), thus giving that protection to the precincts of Calcutta which ought to be given."

The Council adjourned to Saturday, the 1st February, 1890.

CALCUTTA;
The 24th January, 1890.

C. H REILY,
Assistant Secretary to the Govt. of Bengal, Legislative Dept.

NOTE.—The meeting fixed for the 11th January, 1890, was subsequently postponed to the 18th idem.

FAMINE RELIEF BY DISTRICT AND LOCAL BOARDS.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 24th January, 1890.

RESOLUTION.

UNDER section 99 of the Local Self-Government Act III (B.C.) of 1885 District Boards are empowered to incur expenditure on measures for the relief of famine within such financial limits as may be prescribed by the Commissioner of the Division concerned, and the Bengal Famine Code provides that in districts to which this section of the Act has been extended, relief operations should be governed by rules to be issued under section 138. Section 99 has been already extended to Furreedpore and the districts of the Patna Division, and a notification will now issue rendering its provisions applicable to the remaining District Boards of the Province.

2. For the guidance of District Boards in the discharge of the duty of affording relief in time of distress, the Lieutenant-Governor desires to emphasise the principle which has already been enunciated in the course of the correspondence relating to the recent scarcity in Behar, and which has gained the approval of the Government of India as being in accord with the views expressed in paragraph 21 of the Resolution of that Government, No. 44Fam., dated the 9th June, 1883, on the issue of the Provisional Famine Code. That principle is that the duty of providing relief in the way of work should fall in a gradual scale with the deepening of distress, first on Local, secondly on Provincial, and lastly on Imperial Funds. District Boards must be regarded as forming an integral part of the administration, and it becomes their duty, as it is that of other departments of Government in time of serious scarcity, to subordinate the ordinary objects and methods of their expenditure to the special consideration of saving life. District Boards are the primary agency available for coping with famine, and must be expected in such crises to direct their whole resources, subject only to the maintenance of absolutely necessary works in non-affected tracts, to affording relief. This primary obligation having been carried out, it remains for Government to supplement the resources of Boards, if necessary, so as to enable them not only to combat famine, but also to perform their ordinary functions connected with the up-keep of district communications. Before, then, an appeal is made by the Boards to Government for funds, all possible expenditure, beyond that absolutely necessary for bare maintenance and establishment charges, should be diverted from non-affected to affected areas, and on the opening of relief operations, the District budgets should be remodelled with this object.

3. In order to make the action of Boards conform with the provisions of the Famine Code, the annexed rules are, under section 138 of the Local Self-Government Act, issued for their guidance.

1. In the administration of the relief of scarcity or famine, District Boards should follow the principles of the Bengal Famine Code so far as such principles apply to them. Their attention is specially required to the following rules, which should be carefully observed.

2. On relief works opened and maintained by District Boards, the wages paid to labourers should be fixed with reference to the following provisions of the Bengal Famine Code:—

"124. The full ration prescribed under this Code as sufficient to maintain able-bodied labourers in health and strength is—

	For a man.		For a woman		For children.
	lb.	oz.	lb.	oz.	
Flour of the common grain used in the country, or cleaned rice ...	1	8	1	4	¾, ½ and ¼ rations according to age and requirements.
Pulse	0	4	0	4	
Salt	0	½	0	½	
Ghee or oil	0	1	0	½	
Condiments and vegetables ...	0	1	0	1	

"125. The minimum ration for labourers under this Code is—

	For a man.	For a woman.	For children, not being infants, below 14.
	lb. oz.	lb. oz.	
* Flour of the common grain used in the country, or cleaned rice ...	1 0	0 14	$\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ rations according to age and requirements.
Pulse	0 2	0 2	
Salt	0 $\frac{1}{2}$	0 $\frac{1}{2}$	
Ghee or oil	0 $\frac{1}{2}$	0 $\frac{1}{2}$	
Condiments and vegetables ...	0 $\frac{1}{2}$	0 $\frac{1}{2}$	

"126. The penal ration prescribed for labourers sent to a poor-house for refusing to work is—

	For a man.	For woman.
	lb. oz.	lb. oz.
Flour, grain or rice	0 14	0 12
Pulse	0 1	0 1
Salt	0 $\frac{1}{2}$	0 $\frac{1}{2}$

"127. The minimum wage under this Code is the amount of money which at the current rates authorised by the District Officer is sufficient to purchase a minimum ration.

"128. The full wage under this Code is the amount of money which at the current prices is sufficient to purchase a full ration.

"129. Payment for labour on Professional Agency works may be made at the rates ordinarily given under the rules in force in the Public Works Department, provided that the sum which a labourer can ordinarily be expected to earn by a fair day's labour shall in no case be less than the full wage prescribed in section 128.

"130. Payment for labour on Civil Agency works, where payment is made by results, shall be so arranged that the sum which able-bodied-labourers can ordinarily be expected to earn shall be as nearly as possible equal to the full wage prescribed by section 128.

"131. Payment for labour on Civil Agency works, where made according to task, shall be arranged at the discretion of the civil officer in charge:

"Provided that in no case it be greater than 75 per cent. of the full wage, nor less than the minimum wage prescribed in this chapter."

3. Every District Board maintaining a relief work shall make a progress return to the District Officer for each week ending on Saturday night in the annexed form.

4. In making the above return, the District Board shall also note—

(*a*) the physical condition of the labourers, and of those seeking relief;
(*b*) the numbers who have been rejected from the work, and the reasons for rejection;
(*c*) the causes of any refusal to work or failure to accomplish the full task, and the action taken;
(*d*) the sufficiency or insufficiency of the scale of wages of payment for piece-work;
(*e*) any other information which it is expedient to communicate.

5. When a District Board opens and maintains temporary poor-houses and places for the distribution of food, gratuitous relief shall be limited to the following classes of persons, and shall be given to them only when they have no relatives able and, by the custom of the country, bound to support them:—

(*a*) Idiots and lunatics.
(*b*) Cripples.
(*c*) Blind persons.
(*d*) All who from age or physical weakness are incapable of earning their living.
(*e*) All persons whose attendance on the sick, or on infant children in their own homes, is absolutely necessary.

6. No person may be admitted to a poor-house except—

(1) persons who, being unfit for employment on works, cannot be conveniently sent to their homes;
(2) persons who, being fit for employment on works, refuse to labour.

7. The site of the poor-house should be chosen with regard to the following circumstances:—

(1) It should be within easy reach of the head-quarters of the District Board, or of some official delegated to act as visitor.
(2) It should be situated on the outskirts of a village or town.
(3) The situation should be healthy.
(4) The drainage should be good.
(5) An ample supply of water for drinking and bathing purposes should be available.

* The flour should be that of the coarsest cereal or millet ordinarily consumed and commonly purchaseable in the bazar: where rice is made the standard of age it should be cleaned rice. The price should be that at which the flour or rice is sold at the bazar attached to or nearest to the relief work: if flour is not sold, the price should be based on that at which the grain is sold. In calculating the price of flour, it should be remembered that flour is always dearer than the grain of which it is composed. This seems a simple method for instruction, but it had recently been forgotten, and wages have been based on the price of the grain not of the flour. Thus, if barley is selling at one anna a pound, a pound of barley should be priced about $1\frac{1}{2}$ anna (*Mr. Elliott's Draft Code of Famine Relief, Chapter II, paragraph* 13).

8. Arrangements shall be made to ensure that relief is not unnecessarily given, and that, when given, it reaches the persons for whom it is intended.

9. So far as may be, consideration shall be shown to persons of respectable position and family who are reduced to starvation. Such persons shall not be forced to labour on the works, but shall, wherever possible, be employed as overseers of gangs, supervisors, accountants or clerks on the works. If no suitable work can be found for them, they may be admitted to gratuitous relief. A list of all such persons so admitted shall be sent weekly to the District Officer.

10. In cases where District Boards undertake the whole system of charitable relief, the following further rules will apply :—

(*i*) Artizans who require relief shall be employed, as far as possible, in their own trades and in localities where the members of any particular trade or calling are numerous. Preference may be given to works which will provide employment for men of such trade or calling.

(*ii*) In localities where weavers are numerous, the District Board may arrange for the distribution of thread, and the payment for cloth woven, at the market price.

(*iii*) If the market price is so low that a weaver cannot support himself, the price given may be raised, with the sanction of the Commissioner, to such an extent as may be necessary.

11. In order that the expenditure on account of the relief of scarcity or famine may be clearly shown in the budget estimates, the major head "Famine relief" is to be divided into the following minor heads :—

(*i*) Relief works.
(*ii*) Temporary hospitals, poor-houses, orphanages.
(*iii*) Gratuitous relief.
(*iv*) Extra medical or other assistance.

Form No. II, referred to in Rule 11 of the rules under section 138, clauses (*i*) and (*r*) of the Local Self-Government Act, published under notification dated 16th September 1886, in the Municipal Department, is to be corrected accordingly.

ORDER.—Ordered that a copy of this Resolution be forwarded to all Commissioners and District Officers, and, through the latter, to all District Boards, for information and guidance.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

FORM OF PROGRESS RETURN.

See Rule 3.

FAMINE RELIEF WORKS.

DISTRICT OF_____

*Progress Return for the week ending on night of Saturday, the*_____ _____.

Serial number of work.	Description of work.	Date of the week.	Number of persons employed.									Quantity or portion of work done during the week.	Total amount disbursed as wages.									Total number of infirm persons unfit to work and dependent on labourers employed on the work during the week.	Total amount of wages paid to such persons during the week.	How long the work is likely to give employment.	Remarks.
			Class A.			Class B.			Class C.				Class A.			Class B.			Class C.						
			Men.	Women.	Children.	Men.	Women.	Children.	Men.	Women.	Children.		Men.	Women.	Children.	Men.	Women.	Children.	Men.	Women.	Children.				
		Sunday ...										The following progress has been made.												This work will give employment to ... labourers for ... days.	
		Monday .																							
		Tuesday ...																							
		Wednesday .																							
		Thursday ...																							
		Friday ...																							
		Saturday ...																							
		Total ...																							

NOTE.—"Class A" stands for able-bodied persons accustomed to labour.
"Class B" stands for able-bodied persons not so accustomed.
"Class C" stands for persons not able-bodied, but fit for light employment of the kind required at the work.

LIBERALITY OF RAJAH RUN BAHADUR SINGH, OF TIKARI.

Dated Calcutta, the 28th January 1890.

From—Sir John Edgar, K.C.I.E., C.S.I., Chief Secretary to the Government of Bengal,

To—The Commissioner of Patna.

I am directed to acknowledge the receipt of your letter No 21G, dated the 9th instant, in which you report that Rajah Run Bahadur Singh, of Tikari, has contributed a sum of Rs. 25,000 to form the nucleus of a trust fund for the purpose of establishing a lady doctor in Gya.

2. In reply, I am to request that you will be so good as to convey to Rajah Run Bahadur Singh an expression of the Lieutenant-Governor's appreciation of his public spirit and liberality. The correspondence will be published in the *Calcutta Gazette*.

No. 21G, dated Bankipore, the 9th January 1890.

From—John Boxwell, Esq., Offg Commissioner of the Patna Division,

To—The Secretary to the Government of Bengal, Medical and Municipal Depts.

I have the honour to report, for the information of Government, that Babu (now Rajah), Run Bahadur Singh, of Tikari, has contributed a sum of Rs. 25,000 to form the nucleus of a trust fund for the purpose of establishing a lady doctor in Gya.

2. Other subscriptions have raised the total to over Rs. 28,000. Under the Magistrate's care the fund is likely to grow rapidly.

3. The Magistrate has requested me to bring specially to the notice of Government this most generous action of Rajah Run Bahadur Singh.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 25th January, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Divn. 1	Burdwan Jan. 25, '90	0·12	Weather—cloudy and rather warm. Prospects of *rubbi* not very favourable. Sugarcane good. Prices of common rice :—
	Raneegunge ...	0·05	Srs. Burdwan ... ... 17½ / Culna ... ... 16 / Cutwa ... ... 16½ / Raneegunge ... ... 20 } per rupee.
2	Bankoora „ 25, '90	0·07	Weather—seasonable. *Rubbi* crops doing well. Sugarcane is being cut with good outturn. Common rice 21 seers per rupee at Sudder and 18 seers at Bissenpore.
3	Birbhum „ 25, '90		A few drops of rain fell on the 19th, and there was a thunderstorm not far off *Amun* crop has been reaped; outturn about 16 annas. Prospects of winter crops good. Price of rice 16 seers per rupee at Soory and 16½ seers at Rampur Hât.
4	Midnapur „ 25, '90	Nil	Weather—seasonable. Rice harvest in the Sudder subdivision completed with 12 annas outturn, but still going on in Contai and Tamluk. Prices of rice :—
			Srs. Sudder ... ... 16 / Contai ... ... 24 (new) / Tamluk ... ... 16 / Ghatal ... ... 18 } per rupee.
5	Hooghly „ 25, '90	Nil	Hot weather making appearance. *Rubbi* crops thriving well and promise a good outturn. Potatoes specially good. Prices of common rice :—
			Srs. Sudder and Serampore ... ... 12½ / Jehanabad ... ... 17½ } per rupee.
	Howrah „ 25, '90	0·52	Weather—cool. Prospects of crops good Rain on 25th instant has done good, Harvesting of *amun* crop finished. Prices of common rice :—
			Srs. Howrah ... ... 12½ / Uluberia ... ... 15½ } per rupee.
	Central Districts.		
Presidency Divn. 6	24-Perghs. Jan. 25, '90	1·07	Weather seasonable, but cloudy. Harvesting of *amun* crop progressing quickly. Winter crops doing well. Price of rice varies from 15 to 17 seers a rupee.
7	Nuddea „ 25, '90	Nil	Weather—seasonable. *Kalai, mung,* and mustard are being harvested. Other winter crops doing well.
	Kooshtea ...	0·15	
	Meherpur ...	0·10	
	Chooadanga ...	0·05	
8	Khoolna „ 25, '90	1·04	Weather—seasonable. *Amun* harvest still progressing; outturn good. Winter crops doing well. The rain of the week will do good to the *rubbi* crops.
	Bagirhat ...	0·5	
9	Jessore „ 25, '90	1·55	Rain on the 24th. Harvesting of *amun* rice nearly completed except on low lands. Cold-weather crops doing fairly well. Prices of rice stationary.
	Jehanabad ...	0·18	
	Magura ...	0·25	
	Narail ...	0·03	
10	Moorshedabad „ 25, '90	0·12	Weather—clear and cold. *Amun* harvesting almost completed. *Rubbi* promises well.
Rajshahye Divn. 11	Dinagepur „ 25, '90	Nil	Weather—very cloudy yesterday (24th), and this (25th) morning very foggy. Rice harvest almost over, and prospects favourable. Mustard crop in the subdivision expected to be very poor. Pressing of sugarcane continues.
12	Rajshahye „ 25, '90	0·14	Weather—partially cloudy and cold. The shower of rain on the 19th has done much good to the spring crops. Harvesting of *amun* is nearly over with good results. Prospects of standing crops good. Condition of *ganja* good at Nowgong. Price of rice almost stationary.
13	Rungpur „ 25, '90	0·5	Weather—cool and cloudy with light showers of rain. Mustard is being gathered. Prospects of *rubbi* crops good. Ploughing facilitated by rain.
	Gaibanda ...	0·18	
14	Bogra „ 25, '90	0·79	Weather—seasonable. Rain on two days; on the 20th it rained with hail-stones. Reaping of *amun* nearly finished. Other crops are also being reaped. A little damage was caused by the hail of the 20th. Rice is being sold at 21 seers per rupee at head-quarters.
	Nowkhilla ...	1·14	
15	Pubna „ 25, '90	0·33	Weather—seasonable and cloudy at the latter part of the week. *Amun* crop is still being reaped. Mustard and tobacco are expected to be 12 annas crops. Recent rain has done good to crops.
16	Darjeeling „ 25, '90	0·95	Weather—cold and cloudy with occasional rain and snow. In the hills wheat and barley continue to progress favourably, and fields are being prepared for potatoes. In the Terai harvesting of *amun,* mustard, and potatoes continues. Transplanting of tobacco nearly completed.
17	Jalpigoree „ 25, '90	0·13	Weather—cloudy and cold. Cutting of *haimanti* paddy completed; outturn good. *Rubbi* crops doing well. Prices stationary.

No.	District and date of return.	Rainfall at under Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Jan. 25, '90	Figures not given.	Weather—seasonable. Sowing of *boro* paddy continues. Winter crops doing well. Recent rain has done good to the standing crops. Mustard and pulses are being gathered. Fodder is available. No special change in the prices of food-grains. Common rice sold at from 14 to 16½ seers per rupee during the week.
19	Furreedpur „ 25, '90	1·45	Weather seasonable. Mornings occasionally foggy and cloudy. State and prospects of *rabbi* crops continue fair. Cultivation and sowing of *jol* and *boro* in progress. Rain has done much good to the standing crops. Coarse rice selling at 14 seers per rupee in Sudder, 17 seers in Goalundo, and 14½ seers in Madaripur. Outturn of *aman* paddy did not exceed 10 annas in Sudder owing to the damage done by unusual flood. From Goalundo and Madaripur it is reported to be 16 and 14 annas respectively.
20	Backergunge ...	...	Report not received.
21	Mymensingh „ 25, '90	1·16	On the night of the 19th rain fell accompanied by strong wind and hailstones, and there was rain also on the 24th. Weather cool and sometimes cloudy. Rain has done much good to standing crops. Harvesting of *aman* paddy nearly completed. Mustard and pulses are still being gathered. Transplanting of *boro dhan* continues. Common rice sells at 13 seers 5 chittacks per rupee.
Chittagong Divn. 22	Chittagong „ 25, '90	0·66	Weather—seasonable. Prospects and state of winter crops good.
23	Noakholly „ 25, '90	0·39	Weather—cloudy; rather warm for the season. *Rabbi* crops getting on well. Late rain has done some good to the crops.
24	Tipperah „ 25, '90	0·45	Weather—seasonable. Recent rain has benefited the winter crops. Mustard is being collected. Transplanting of *boro dhan* going on.
	Brahmanberiah ...	1·19	
	Chandpur ..	0·55	
25	Chittagong Hill Tracts. „ 24, '90	0·08	Weather—very cold with dense fogs in the mornings throughout the week, except on the morning of the 20th, which was cloudy with drizzling rain. Tobacco, chillies, and other winter crops progressing. Gathering of mustard commenced in some places.
	Hill Tipperah Jan 25, '90	0·30	Weather—cloudy. Reaping of *aman* paddy finished Chillies and tobacco doing well.
BEHAR.			
Patna Divn. 26	Patna „ 25, '90	0·03	Weather—cloudy towards the end of the week. Slight showers of rain on the night of the 23rd. Harvesting of paddy over. Prospects of *rabbi* continue good. Mustard promising. Poppy flowering and looks well. Prices of food-grains almost stationary.
27	Gya „ 25, '90	Nil	Weather—cold and cloudy. Prospects of poppy and *rabbi* good. Harvesting of paddy still going on. Food-stock sufficient.
28	Shahabad „ 25, '90	Nil	Weather—cloudy with north-easterly wind. Prospects of all *rabbi* crops continue good. They are now in ear. A shower of rain would be beneficial. Poppy thriving and coming into flower. Pressing of sugarcane going on. Prices stationary.
29	Durbhunga „ 25, '90	0·23	Weather—latter part of the week cloudy throughout district. Rain last night (24th) at head-quarters. It will greatly benefit the *rabbi* crops, wheat and barley, the prospects of which are very favourable. Tobacco is being harvested. Poppy doing well. Price of common rice ranges from 19 to 21½ seers per rupee.
30	Mozufferpur „ 25, '90	Figures not given.	Weather—cloudy; slight rain on the 24th. All standing crops doing well. Mustard crop commencing to be cut.
31	Sarun „ 25, '90	Nil	Weather—clear, but occasionally cloudy. Weather unfavourable for poppy. Prospects of this crop, however, continue good. *Rabbi* crops, including mustard, look well. Sugarcane pressing is in full progress.
32	Chumparun „ 25, '90	0·99	Weather—clear and cold to-day (25th). Rain fell on the 23rd and on the night of the 24th, immensely benefiting the standing crops of *rabbi* and poppy, but slight damage is apprehended to wheat Indigo fields are being prepared Sugarcane is being pressed. Prices of food-grains stationary.
Bhagulpur Divn. 33	Monghyr „ 25, '90	Nil	Weather—cold and cloudy at the latter part of the week. *Rabbi* crops doing well. Prospects of poppy fair.
34	Bhagulpur „ 25 '90	Nil	Weather—rather too warm and cloudy. Mornings foggy. Prospects promising, but rain wanted for *rabbi* crops.
35	Purneah „ 25, '90	0·02	Weather—cloudy and cold with west wind. Mustard is being harvested. Tobacco and *rabbi* crops doing well, but want a shower of rain. Early ploughings going on.
36	Maldah „ 25, '90	Nil	Weather—mornings foggy and occasionally cloudy. Days and nights hot. Harvesting of winter rice over. *Kalai* and mustard are still being gathered. Transplanting of *boro* paddy going on. Wheat promising. Prospects of other standing crops good. Common rice selling at an average of 17 seers per rupee
37	Santhal Perghs. „ 25, '90	0·02	Weather—cold and seasonable. Threshing of paddy continues with average outturn. Prospects of *rabbi* crops good.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Jan. 25, '90	Nil	Weather—seasonable. Prospects of crops continue good.
	39	Pooree „ 24, '90	Nil	Weather—seasonable Harvesting of winter rice (late *sarad*) still continues in the Sudder subdivision, but is finished in the Khorda subdivision. *Dalua* and *mung* crops doing well. Price of common rice varies from 21 to 29 seers per rupee in the Sudder subdivision and 20 to 27 seers in the Khorda subdivision.
	40	Balasore „ 25, '90	Nil	Weather—seasonable. *Rubbi* crops doing fairly well.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Jan. 25, '90	Nil	Weather—cold and seasonable. Crops generally very promising. A little rain is needed.
	42	Lohardugga „ 25, '90	0·01	Weather—cloudy. Prospects of *rubbi* crops good. Rain much wanted in the subdivision. Lac gathering finished in Palamow; yield 12 annas on the average.
	43	Singbhoom „ 25, '90	Nil	Weather—seasonable. Oilseeds and pulses are expected to give an outturn of from 12 to 16 annas. Prospects favourable.
	44	Manbhoom „ 26, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops good. Sugarcane is being pressed; probable outturn 12 annas. Coarse rice selling in the Purulia market at 22 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 28th January, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Mean, 8 A.M., temperature
Orissa.	Pooree	Pooree ...	29·918	29·961	—	N	147	85·7	21st Jan.	63·8	18th Jan.	82·4*	65·6*	74·0*	—	68·8
		Gopalpore .	29·943	29·984	−·079	NNW	220	82·2	21st ,,	64·4	18, 19 ,,	81·0	68·3	75·2	+2·7	69·9
		False Point ...	29·939	29·961	−·122	NW	158	84·9	21st ,,	57·0	18th ,,	81·1	62·5	71·8	+3·3	66·5
	Cuttack	Cuttack ...	29·897	29·961	−·006	Calm	26	88·9	24th ,,	59·8	18th ,,	86·1	61·7	73·9	+1·4	65·5
	Balasore	Balasore ..	29·914	29·976	−·114	NNW	76·6	85·4	20th ,,	53·5	21st ,,	83·5	57·3	70·2	+2·4	64·9
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·935	29·962	−·118	Variable	221	79·7	20th ,,	59·9	18th ,,	77·6	64·4	71·1	+2·9	68·3
	Midnapore	Midnapore ..	29·815	29·973	−·127	Calm	25·0	86·3	20th ,,	55·2	18th ,,	83·3	58·6	71·0	+4·1	64·8
	24-Pergunnahs ... ... / Howrah ... .. / Hooghly	Calcutta .	29·940	29·903	−·126	Variable	58	81·5	20th ,,	55·8	18th ,,	78·9	59·5	69·2	+3·3	63·8
	Burdwan	Burdwan ..	29·878	29·964	−·151	North-westerly.	40·8	85·5	20th ,,	55·8	18th ,,	80·7	59·8	70·2	+3·8	63·9
	Bankoora	Bankoora ...	29·861	29·980	−·100	Calm	43	83·6	24th ,,	55·6	18th ,,	81·2	58·0	69·6	+3·7	61·6
	Beerbhoom ... .. / West Burdwan	Raneegunge	29·826	29·977	−·124	Calm	35·8	85·5	20th ,,	56·1	18th ,,	81·6	58·3	70·0	+4·1	61·7
	Moorshedabad	Berhampore...	29·886	29·957	−·132	Variable	34·1	80·6	20th ,,	56·2	18th, 19th Jan.	78·5	57·6	68·1	+3·8	60·4
	Nuddea	Krishnaghur...	29·914	29·983	−·114	WNW	69·0	85·6	20th ,,	53·9	18th ,,	80·2	57·7	68·9	+4·6	63·4
	Jessore ... ... / Khoolna	Jessore ..	29·921	29·956	−·122	Calm	27·2	81·7	20th ,,	56·5	18th ,,	79·8	59·1	69·4	+3·9	61·8
East Bengal.	Chittagong	Chittagong	29·872	29·967	−·113	North-westerly	40·9	81·1	19, 20, 23 ,,	56·1	18th, 19th Jan.	79·5	58·2	68·8	+2·3	61·6
	Chittagong Hill Tracts	Demagiri ..	Observations not received													
	Backergunge	Barrisal ..	29·944	29·987	−·106	Calm	35·8	79·3	19th Jan.	56·1	18th ,,	78·1	59·4	68·8	+1·2	64·1
	Noakholly	Noakholly ...	29·915*	29·961*	—	N	66·4	81·3	19th ,,	54·9	18th ,,	79·5	56·5	68·0	—	62·4
	Furreedpore	Furreedpore...	29·931	29·973	−·096	Calm	35	74·0	22nd ,,	56·0	18th ,,	73·7	58·3	66·0	+2·2	62·2
	Dacca	Dacca ...	29·931	29·954	−·122	North-easterly.	57·9	81·1	20th ,,	56·6	22nd, 23rd Jan.	79·8	57·7	68·7	+2·3	62·2
	Tipperah	Commillah ...	29·135	29·972	−·094	Easterly	21·7	80·9	20th ,,	56·0	18th, 23rd Jan	79·2	57·3	68·2	+3·5	63·6
	Mymensingh	Mymensingh	29·910	29·970	−·180	E	40·3	77·9	19th ,,	55·8	21st ,,	76·3	57·5	66·9	+3·6	60·8
North Bengal.	Bogra	Bogra .	29·879	29·946	−·104	Calm	34·2	79·6	20th ,,	53·1	18th ,,	77·6	55·3	66·4	+1·1	59·4
	Pubna	Serajgunge ..	29·907	29·956	−·115	NE	22·6	79·5	20th ,,	52·5	23rd ,,	78·2	55·2	66·7	+3·4	59·6
	Rajshahye	Rampore Beauleah.	29·881	29·957	−·095	Variable	73·3	80·1	20th ,,	55·7	18th, 22nd Jan.	77·7	57·3	67·5	+5·5	61·6
	Maldah	Maldah ...	29·809	29·983	—	NW	59·8	79·7	20th ,,	52·7	18th ,,	76·0*	53·5*	65·0*	—	61·3
	Dinagepore	Dinagepore ..	29·860	29·987	−·098	NE	52	79·1	23rd ,,	52·2	18, 19, 21 & 23 Jan.	77·6	53·8	65·7	+2·8	58·9
	Rungpore	Rungpore ..	29·865	29·998	−·078	ENE	20	79·6	21st ,,	51·9	18th, 23rd Jan.	77·5	53·4	65·4	+3·7	58·1
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·685	29·989	−·085	NE	?	?	?	51·9	21st ,,	?	53·5	?	?	58·9
	Darjeeling Hill Tracts ...	Darjeeling ..	22·908	—	—	WSW	138·1	53·9	19th ,,	34·7	20th ,,	53·5*	34·7	44·5*	+5·3	53·5
North Behar.	Purneah ... .. / North Bhagulpore ...	Purneah ..	29·853	29·969	−·116	Calm	28·5	75·2	22nd, 23rd, 24th Jan.	50·5	19th ,,	75·3	52·4	63·9	+2·4	57·6
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ..	29·807	29·985	−·109	ENE	53	77·4	24th Jan.	55·4	19th ,,	76·3	56·7	66·5	+4·7	59·6
	Chumparun ..	Motihari ..	29·743	29·985	−·089	North-easter y.	51·2	76·2	22nd—24th Jan.	49·9	18th, 22nd Jan.	75·3	52·3	63·7	+4·4	56·7
	Sarun ...	Chupra ..	29·767	29·972	−·093	South-easterly.	35·5	78·3	24th ,,	51·0	18th ,,	77·0	54·7	65·8	+5·0	59·6
South Behar.	Shahabad	Dehree ..	29·805	29·942	−·119	SSW	97·9	81·3	24th ,,	51·5	18th ,,	79·6	54·5	67·0	+5·6	59·6
		Buxar .	29·716	29·974	−·120	ENE	62·1	81·4	24th ,,	50·9	22nd ,,	78·4	53·7	66·0	+4·4	57·3
		Arrah ..	29·761	29·908	−·105	Calm	40·5	80·2	24th ,,	51·9	18th ,,	76·1	53·4	65·8	+5·3	58·1
	Gya	Gya ..	29·574	29·975	−·128	Southerly	91·1	82·6	24th ,,	52·4	18th ,,	80·0	54·7	67·4	+3·8	60·0
	Patna	Bankipore ..	29·781	29·975	−·129	Variable	23·3	78·9	24th ,,	53·0	19th ,,	76·9	55·6	66·2	+3·6	61·0
	South Bhagulpore . / Monghyr	Bhagulpore ...	29·787	29·959	−·122	Calm	20	79·8	24th ,,	53·5	19th ,,	77·2	54·6	65·9	+4·3	58·0
	Sonthal Pergunnah ..	Doomka ...	29·442	29·971	—	Calm	47·6	80·9	20th ,,	52·6	18th ,,	79·2	55·8	67·5	—	59·4
Chutia Nagpur.	Hazaribagh	Hazaribagh ..	27·902	29·979	−·195	South-westerly.	147·9	80·7	20th ,,	53·8	21st, 22nd Jan	77·8	55·8	66·7	+5·1	62·4
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·774	29·974	−·104	Calm	103·7	82·0	20th ,,	50·5	21st ,,	77·7	53·1	65·4	+4·0	61·4
	Singbhoom	Chyebassa ...	29·193	29·993	—	SW	28·6	85·8	20th ,,	52·7	18th ,,	82·9	56·0	69·4	—	63·7

* Means of six days. † Means of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the pas stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 24th of January 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 1st May 1889. Mean for district.	Since 1st May 1889. Normal mean.	Since 1st May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Divisions.
85	0	Nil	Nil	0·07	Nil	0·14	−0·14	74·88	55·31	+19·37	0·0	0·3	Pooree	Pooree	Orissa.
72	0·1	Nil											Gopalpore		
91	0·9	Nil											False Point		
79	0·7	Nil	Nil	0·06	Nil	0·16	−0·16	66·24	51·71	+14·53	0·0	0·2	Cuttack	Cuttack	
88	0	Nil	Nil	0·04	Nil	0·19	−0·19	49·89	52·79	−2·90	0·0	0·3	Balasore	Balasore	
92	1·0	Nil	Nil	0·07	Nil	0·23	−0·23	58·43	62·24	−3·81	0·0	0·3	Saugor Island	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
78	0·7	Nil	Nil	0·06	Nil	0·31	−0·31	46·29	51·38	−5·09	0·0	0·2	Midnapore	Midnapore	
93	1·0	Nil	Nil	0·09	Nil	0·32	−0·32	53·38	51·50	+1·88	0·0	0·3	Calcutta	24-Pergunnahs	
														Howrah	
														Hooghly	
84	0	0·12	0·04	0·10	0·04	0·21	−0·17	43·87	46·52	−2·65	0·3	0·3	Burdwan	Burdwan	
84	0	Nil	0·03	0·12	0·03	0·20	−0·17	55·91	52·49	+3·42	0·5	0·3	Bankoora	Bankoora	
82	0·1	0·05	0·01	0·10	0·01	0·32	−0·31	53·45	51·50	+0·95	0·3	0·4	Raneegunge	Beerbhoom	
														West Burdwan	
95	2·4	0·12	0·02	0·13	0·02	0·37	−0·35	51·17	50·39	+0·78	0·2	0·4	Berhampore	Moorshedabad	East Bengal.
86	1·7	Nil	0·06	0·07	0·06	0·20	−0·14	51·35	49·09	+2·46	0·6	0·3	Krishnaghur	Nuddea	
94	2·6	Nil	0·15	0·13	0·15	0·32	−0·17	53·54	52·99	+0·55	0·6	0·3	Jessore	Jessore	
														Khoolna	
90	2·2	Nil	Nil	0·29	Nil	0·46	−0·46	100·02	113·48	−13·46	0·0	0·5	Chittagong	Chittagong	
			0·04	0·24	0·04	0·42	−0·38	65·17	81·05	−15·88	0·5	0·5	Demagiri	Chittagong Hill Tracts.	
91	2·7	0·03	0·14	0·16	0·14	0·45	−0·31	77·98	76·77	+1·19	1·0	0·3	Barrisal	Backergunge	
90	0·3	0·25	0·26	0·13	0·36	0·56	−0·20	90·65	106·39	−15·74	1·5	0·3	Noakholly	Noakholly	
95	0·9	Nil	1·45	0·12	1·45	0·25	+1·20	61·77	55·66	+6·11	1·3	0·3	Furreedpore	Furreedpore	
94	1·9	0·20	0·44	0·09	0·44	0·23	+0·21	75·03	59·46	+15·57	1·0	0·3	Dacca	Dacca	
85	0·4	0·35	0·59	0·15	0·59	0·45	+0·14	56·04	69·27	−13·23	1·0	0·4	Commillah	Tipperah	
91	2·0	1·39	0·51	0·10	0·51	0·27	+0·24	88·14	67·48	+20·66	0·8	0·3	Mymensingh	Mymensingh	
90	1·4	0·16	0·42	0·10	0·42	0·27	+0·15	65·34	57·20	+8·03	1·0	0·4	Bogra	Bogra	
96	0·9	0·08	0·21	0·09	0·21	0·28	−0·07	55·28	53·17	+2·11	1·0	0·4	Serajgunge	Pubna	North Bengal.
88	0·6	0·03	0·05	0·14	0·05	0·42	−0·37	54·35	53·74	+0·61	0·3	0·4	Rampore Beauleah	Rajshahye	
89	1·1	Nil	Nil	0·13	Nil	0·36	−0·36	39·76	54·11	−14·35	0·0	0·4	Maldah	Maldah	
85	1·9	Nil	0	0·18	0	0·29	−0·29	57·57	50·89	+0·68	0·2	0·4	Dinagepore	Dinagepore	
92	1·7	0·33	0·48	0·14	0·50	0·31	+0·19	85·66	74·03	+11·63	1·5	0·4	Rungpore	Rungpore	
91	2·7	0·16	0·50	0·18	0·66	0·24	+0·32	117·69	111·44	+6·25	1·4	0·5	Julpigoree	Julpigoree	
														Cooch Behar	
85	6·0	0·24	0·20	0·32	0·52	0·53	−0·01	133·27	120·81	+12·46	1·5	1·0	Darjeeling	Darjeeling Hill Tracts.	
93	1·7	Nil	0·29	0·18	0·29	0·34	−0·05	75·00	58·48	+16·52	0·4	0·4	Purneah	Purneah	North Behar.
														North Bhagulpore	
			0·11	0·14	0·11	0·42	−0·31	48·77	43·03	+5·74	0·3	0·4	Mozufferpore	Mozufferpore	
88	1·3	Nil	0·14	0·15	0·14	0·43	−0·29	51·98	44·46	+7·52	0·3	0·4	Durbhunga	Durbhunga	
89	2·3	0·62	0·38	0·13	0·58	0·40	−0·02	63·93	46·53	+17·40	1·0	0·3	Motihari	Chumparun	
82	0·9	Nil	Nil	0·18	Nil	0·40	−0·40	40·13	42·61	−2·48	0·0	0·4	Chupra	Sarun	
81	1·9	Nil											Dehree	Shahabad	South Behar.
83	1·4	0·03	Nil	0·21	Nil	0·54	−0·54	40·07	40·14	−0·07	0·0	0·3	Buxar		
89	2·6	Nil											Arrah		
76	1·3	Nil	Nil	0·16	Nil	0·47	−0·47	37·07	41·36	−4·29	0·0	0·3	Gya	Gya	
87	2·0	0·03	Nil	0·15	Nil	0·40	−0·40	43·49	41·18	+2·31	0·0	0·3	Bankipore	Patna	
88	1·4	Nil	Nil	0·18	Nil	0·37	−0·37	42·43	43·45	−1·02	0·0	0·3	Bhagulpore	South Bhagulpore	
														Monghyr	
87	0·3	0·02	0	0·14	0	0·30	−0·30	54·15	50·64	+3·51	0·2	0·4	Doomka	Sonthal Pergunnahs	
90	0	Nil	Nil	0·17	Nil	0·45	−0·45	45·03	50·56	−7·53	0·0	0·3	Hazaribagh	Hazaribagh	Chutia Nagpur.
87	0·3	Nil	Nil	0·21	Nil	0·60	−0·60	44·34	48·24	−4·90	0·0	0·3	Ranchi	Lohardugga	
			Nil	0·11	Nil	0·32	−0·32	38·33	40·77	−2·44	0·0	0·4		Manbhoom	
76	0	Nil	Nil	0·19	Nil	0·44	−0·44	48·76	51·22	−2·46	0·0	0·3	Chyebassa	Singbhoom	

ten years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.
ceroting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of January 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 18th January.	Sunday, 19th January.	Monday, 20th January.	Tuesday, 21st January.	Wednesday, 22nd January.	Thursday, 23rd January.	Friday, 24th January.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	80·68	51·17
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	76·57	56·38
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 03	65·89	48·95
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	76·80	63·58
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	73·27	46·86
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	52·43	49·27
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 11	75·18	56 13
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	72 03	53 03
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	57·64	53·24
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore ..	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·64	52·14
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	57·66	51·40
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	46·05	50 97
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	46·61	57·67
		Jellasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	39·59	53·51
		Haripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	54·79	53·71
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	55·13	61·13
		Sangor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	56·74	60·91
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	49·40	51·03
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	46·26	48·67
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	48 19	54·42
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·65	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·72	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	63·41	58·25
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·80	?
		Alipore Jail ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	51·80	55·64
		Barrackpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	51 79	49 71
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	54·58	51·53
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	57·61	49 69
		Huseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	60·02	54·40
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	59·12	51·70
		Mohesreka ... (*Coloberiah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	54·64	51·87
	Hooghly ..	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	55·27	49·95
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 23	3··93	48 03
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	41·16	54·54
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	41·32	44·19
		Burdwan ...	.....	.....	0·12	.....	.....	.....	.....	1	0·12	0·12	0·12	47·19	47·64
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	48·11	47·63
		Ranegunge ...	.....	.....	0·05	.....	.....	.....	.....	1	0·05	0·05	0·19	55·88	48·88
		Mankur ...	.....	.....	0·09	.....	.....	.....	.....	1	0·09	0·09	?	53·80	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	50·79	51·29
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	57·49	51·78
		Mahara ...	.....	.....	.....	.....	.....	.....	0·11	1	0·11	0·11	0·17		51·75
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	65·91	54·00
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48 40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40 44	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Kaspore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·53	?
	Beerbhoom	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	59·06	53·59
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	47·07	54·19
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	47·78	51·42
		Boipore ...	.....	.....	0·07	.....	.....	.....	.....	1	0·07	0·07	?	55·04	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	55·80	46·82
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	49·95	45·91
		Chooadanga ...	.....	.....	0·05	.....	.....	.....	.....	1	0·05	0·05	0 21	49·86	50·90
		Meherpore ...	.....	.....	0·10	.....	.....	.....	.....	1	0·10	0·10	0·24	53·15	47·41
		Kooshtea ...	.....	.....	0·15	.....	.....	.....	.....	1	0·15	0·15	0·21	56·06	54·26
	Khoolna ..	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	58·51	55·07
		Bagirhat ...	.....	.....	0·50	.....	.....	.....	.....	1	0·50	0·50	0·41	54·50	61·22
		Khoolna ...	.....	.....	0·25	.....	.....	.....	.....	1	0·25	0·25	0 43	56·90	54·62
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	0·03	.....	.....	.....	.....	1	0·03	0·30	0·45	49·50	45 78
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	52·35	54·10
		Jhenidah ...	.....	.....	0·18	.....	.....	.....	.....	1	0·18	0·18	0 25	50·74	53·24
		Magoorah ...	.....	.....	0·25	.....	.....	.....	.....	1	0·25	0·25	0 18	50·73	49 06
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	46·01	51·64
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	55·38	50·98
		Berhampore ...	.....	.....	0·12	.....	.....	.....	.....	1	0 12	0·12	0 41	46·28	51·19
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	47·13	50·76
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	?	51·10
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 41	55·01	49·09
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	59·02	50·95
		Jugunge ...	.....	.....	0·04	.....	.....	.....	.....	1	0·04	0·04	?	45·29	?
		Akriguaj ...	.....	.....	0·25	.....	.....	.....	.....	1	0·25	0·25	?	43·06	?
		Patkabari ...	.....	0·10	.....	.....	.....	.....	.....	1	0·10	0·10	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	123·89	135·48
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	76·42	94·29
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·06	?
	Chittagong Hill Tracts.	Rangamati ...	.....	0·08	.....	.....	.....	.....	.....	1	0·08	0·08	0·46	63·13	83·60
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	67·20	80·30
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	57·20	57·57
		Perozepore ...	.....	.....	0·05	.....	.....	.....	.....	1	0·05	0·05	0·33	72·21	69·86
		Burrisal ...	.....	.....	0·09	.....	.....	.....	.....	1	0 09	0·09	0·51	72·71	67·48
		Bhola ...	.....	.....	0·25	0·17	.....	.....	.....	2	0·42	0·42	0·33	79·68	81·77

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of January 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL: Saturday, 18th January 1890.	Sunday, 19th January.	Monday, 20th January.	Tuesday, 21st January.	Wednesday, 22nd January.	Thursday, 23rd January.	Friday, 24th January.	TOTAL: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi* ...	......	......	......	......	......	......	......	Nil	Nil		?	61·31	?
		Bauphal ...	......	......	......	......	......	......	......	Nil	Nil		?	92·89	?
	Noakholly ...	Noakholly ...	......	......	0·19	0·08	......	......	......	2	0·27	0·27	0·46	102·44	107·65
		Fenny ...	......	......	0·45	......	......	......	......	1	0·45	0·45	0·65	78·88	106·54
		Harishpore ...	......	......	......	......	......	......	......	Nil	Nil		?	89·96	?
		Ramganj ...	......	......	......	......	......	......	......	Nil	Nil		?	86·75	?
	Furreedpore	Madaripore ...	......	......	0·69	0·30	......	......	......	2	0·99	0·99	0·39	61·85	55·37
		Furreedpore ...	......	1·80	......	......	......	......	......	1	1·80	1·80	0·15	65·60	66·07
		Goalundo ...	......	1·55	......	......	......	......	......	1	1·55	1·55	0·27	57·84	52·83
	Dacca ...	Munshigunge	......	......	0·60	......	......	......	......	1	0·60	0·60	0·31	76·03	69·87
		Dacca ...	......	......	0·22	......	......	......	......	1	0·22	0·22	0·22	73·91	58·26
		Naraingunge	......	......	0·44	......	......	......	......	1	0·44	0·44	0·12	80·89	59·57
		Manickgunge	......	......	0·51	......	......	......	......	1	1·51	0·51	0·27	68·50	49·84
		Joydebpore ..	......	......	1·16	......	......	......	......	1	1·16	1·16	?	67·77	?
	Hill Tipperah	Agartola ...	......	......	0·18	......	......	......	......	1	0·18	0·18	0·48	41·26	61·39
	Tipperah ...	Comilla ...	......	......	0·45	......	......	......	......	1	0·45	0·45	0·49	62·62	75·92
		Chandpore ...	......	......	0·55	......	......	......	......	1	0·55	0·55	0·29	65·37	75·54
		Brahmunberia	......	......	1·19	......	......	......	......	1	1·19	1·19	0·53	51·87	61·45
		Ramchandrapore.	......	......	0·29	......	......	......	......	1	0·29	0·29	?	60·43	?
		Nasirnagar ...	......	......	0·30	......	......	......	......	1	0·30	0·30	?	30·89	?
		Daudkandi ...	......	......	0·72	......	......	......	......	1	0·72	0·72	?	53·01	?
		Kasba ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	62·44	?
		Laksham ...	......	......	0·30	......	......	......	......	1	0·30	0·30	?	69·39	?
	Mymensingh...	Kishoregunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·45	89·56	69·98
		Atia (*Tangail*)	......	......	0·84	......	......	......	......	1	0·84	0·84	0·33	61·84	58·31
		Mymensingh	......	......	1·16	......	......	......	......	1	1·16	1·16	0·22	97·71	73·86
		Jamalpore ...	......	......	0·34	......	......	......	......	1	0·34	0·34	0·32	85·48	64·05
		Netrokona ...	......	......	0·20	......	......	......	......	1	0·20	0·20	0·08	128·12	72·69
		Subornakhali	......	......	......	......	......	......	......	Nil	Nil	Nil	?	67·43	?
		Durgapore ...	......	......	......	......	......	......	0·34	1	0·30	0·30	?	150·28	?
		Sherepore Town	......	......	0·30	......	......	......	0·34	2	0·64	0·64	?	87·73	?
		Dewanganj ..	......	......	0·16	......	......	0·20	0·41	3	0·77	0·77	?	57·08	?
NORTH BENGAL	Pubna ...	Pubna ...	......	......	0·33	......	......	......	......	1	0·33	0·33	0·24	50·20	53·53
		Serajgunge ...	......	......	0·08	......	......	......	......	1	0·08	0·08	0·31	60·34	53·71
	Bogra ...	Sherepore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	62·66	57·38
		Nowkhilla ...	......	......	1·14	......	......	......	......	1	1·14	1·14	0·30	62·10	54·15
		Bogra ...	......	......	0·20	......	......	......	......	1	0·20	0·20	0·27	70·83	60·46
		Panchbibi ...	......	......	0·30	......	......	......	0·02	2	0·32	0·32	0·21	65·28	55·61
	Rajshahye ...	Beauleah ...	......	......	0·14	......	......	......	......	1	0·14	0·14	0·35	46·34	52·87
		Nattore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·49	58·84	54·80
		Naogaon ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	57·87	51·02
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	36·72	?
		Manda ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	50·53	51·69
		Chanchal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	28·96	56·61
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·77	?
	Dinagepore ...	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·31	58·63	56·12
		Churamon ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	41·82	58·22
		Raigunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	52·25	57·65
		Dinagepore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·27	67·84	63·29
		Baloorghat	......	......	......	......	......	......	0·01	1	0·01	0·01	0·22	61·29	51·12
		Thakoorgaon	......	......	......	......	......	......	0·34	1	0·34	0·34	?	87·81	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	......	......	0·18	......	......	......	0·02	2	0·20	0·20	0·26	87·75	61·84
		Rungpore ...	......	......	0·08	......	......	......	0·20	2	0·28	0·37	0·30	74·78	74·28
		Kurigram ...	......	......	......	......	......	......	0·65	1	0·65	0·65	0·35	91·02	73·75
		Bagdogra (*Nilphamari*).	......	......	......	......	......	......	0·80	1	0·80	0·80	0·32	88·49	84·06
		Ulipore ...	......	......	......	......	......	......	0·10	1	0·10	0·10	?	79·10	?
	Julpigoree ...	Julpigoree ...	......	......	......	......	......	......	0·18	1	0·18	0·18	0·28	123·48	116·73
		Alipore Door	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	......	......	0·50	......	......	......	0·10	2	0·60	0·60	?	128·23	?
		Debiganj ...	......	......	0·21	......	......	......	0·81	2	1·02	1·02	?	90·94	?
		Bhagatpore (Nagrakatta).	......	0·06	0·23	......	......	......	......	2	0·29	0·71	?	139·22	?
	Cooch Behar.	Dinhatta ...	......	......	0·04	......	......	......	0·44	2	0·48	0·67	0·28	98·67	96·00
		Cooch Behar...	......	......	......	......	......	......	0·50	1	0·50	0·55	0·23	125·89	118·08
		Mekliganj...	......	......	......	......	......	......	1·00	1	1·00	1·00	0·18	132·37	105·39
		Matabhanga...	......	......	......	......	......	0·37	0·03	2	0·40	0·40	0·20	118·03	111·36
	Darjeeling Hill.	Buxa ...	0·03	0·27	......	......	......	......	......	2	0·30	1·21	0·81	192·30	192·58
		Silliguri ...	......	......	0·02	......	......	......	0·02	2	0·04	0·07	0·39	120·78	102·89
		Darjeeling ...	......	......	0·24	......	......	......	......	1	0·24	0·40	0·41	126·27	108·53
		Kalimpong ..	......	......	0·20	......	......	......	......	1	0·20	0·36	0·53	91·72	83·18
		Kurseong ...	......	0·70	......	......	......	0·05	0·60	3	1·35	1·98	?	170·23	?
NORTH BEHAR	Purneah ...	Kissengunge...	......	......	......	......	......	......	1·30	1	1·30	1·30	0·37	108·67	70·18
		Arrareah ...	......	......	......	......	......	......	0·14	1	0·14	0·14	0·28	79·75	63·54
		Purneah ...	......	......	......	......	......	......	0·02	1	0·02	0·02	0·36	63·47	61·31
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil		?		?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil		?		?
		Mattari ...	......	......	......	......	......	......	......	Nil	Nil		?		
		Kaliaganj ...	......	......	......	......	......	......	0·20	1	0·20	0·20	?		?
	North Bhagulpore.	Maddapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	60·85	49·15
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·27	67·26	47·[illegible]
		Protabganj ...	......	......	......	......	......	......	0·31	1	0·31	0·31		88·16	?
	Durbhunga ...	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·85	42·44	[illegible]
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	50·01	[illegible]
		Madhubani ...	......	......	......	......	......	......	0·41	1	0·41	0·41	0·41	63·53	[illegible]
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·96	?
		Roshera ...	......	......	......	......	......	......	......	Nil	Nil		?	55·84	?
	Mozufferpore	Sitamarhi ...	......	......	......	......	......	......	0·33	1	0·33	0·33	0·37	55·39	[illegible]
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	48·41	45·[illegible]
		Hajipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	42·58	41·[illegible]
		Paru ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·69	?
		Mahua ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·02	?
		Siahar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Papri ...	......	......	......	......	......	0·24	0·30	2	0·54	0·54	?	48·14	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of January 1890 -concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 18th January.	Sunday, 19th January.	Monday, 20th January.	Tuesday, 21st January.	Wednesday, 22nd January.	Thursday, 23rd January.	Friday, 24th January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	0·54	1	0·54	0·54	0·46	75·33	44·04
		Bettiah ...	.....	.....	.....	.....	.....	.....	0·22	1	0·22	0·22	0·34	52·51	47·83
		Bapaha ...	.....	.....	.....	.....	.....	.....	0·37	1	0·37	0·37	?	70·24	?
		Burhurwa ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	35·49	43·02
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	44·20	44·76
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	40·74	40·35
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	47·46	38·47
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·62	43·68	39·94
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	38·16	40·87
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	29·41	40·57
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	42·09	40·20
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	35·42	42·69
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	39·85	42·44
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	39·59	39·10
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	33·40	39·94
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·09	?
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	29·29	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	31·40	41·81
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	45·53	41·35
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	41·08	41·80
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	35·83	39·70
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil			41·28	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil			35·21	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	47·62	40·03
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	41·67	40·40
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	39·48	42·82
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	45·06	42·08
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	38·54	43·58
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	40·97	?
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	?	?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	39·90	32·16
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	49·04	47·40
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	73·50	55·29
		Nya Doomka	.....	.....	0·02	.....	.....	.....	.....	1	0·02	0·02	0·60	56·77	53·21
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	40·40	50·56
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	45·31	40·10
		Mohagama ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	56·91	?
		Namkat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·87	?
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	38·90	47·35
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	40·10	46·95
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	36·24	46·81
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03		47·90
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	43·00	62·57
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·36	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		44·04	?
		Karagdeha ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil			39·35	?
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Lohardugga ...	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·67	45·24	51·33
		Manbhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	53·61	51·96
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	34·16	43·13
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	33·80	?
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	?	?
		Hosseinabad..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	29·77	?
	Singbhoom	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	45·76	51·43
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	40·80	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	58·70	?
		Baharagora...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	53·80	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	45·46	48·79
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	33·19	44·88
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·42	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·56	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 28th January* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 24TH JANUARY 1890.

THE meteorological conditions for the previous week had been fairly normal except that for a certain time southerly breezes had set in over parts of the province, and temperature and humidity had become decidedly above the normal On the 18th and 19th of January the changes in the general meteorological conditions over Bengal were unimportant, but on the latter date there was evidence of the formation of a barometric depression, over the North-West Provinces. By the morning of the 20th this feeble depression, which was rather irregularly defined, had apparently travelled south-eastwards into South-West Bengal, and pressure was decidedly low at such stations as Calcutta and Saugor Island, round which area also there was a distinct but feeble cyclonic circulation of winds. With these disturbed conditions a number of rain showers occurred on the 20th in South-West and East Bengal and a few in North Bengal, but the rainfall was only important in East Bengal. On the morning of the 21st this feeble depression had passed away, and conditions became more normal for the north-east monsoon, and continued so in Bengal for the next two or three days; but in the meantime another depression was formed on the 22nd over North-Western India, and on this date its centre was apparently between Sirsa, Multan, and Jacobabad. On the morning of the 23rd the depression had moved in a south-easterly direction, and the centre on this day was apparently between Lucknow and Agra; while on the morning of the 24th the depression had again advanced in a south-easterly direction, and was beginning to make itself felt over Behar and Bengal. On this day, in fact, pressure was from a fifth to a quarter of an inch below the normal over a considerable part of Behar, Chutia Nagpur, and South-West and Central Bengal, but no very definite centre could be assigned to the depression from the observations made in the Bengal Presidency. Winds also appeared to show a rather irregular cyclonic circulation, or perhaps two circulations, the centre of one being in South Behar, and of the other in Chutia Nagpur. This, again, caused conditions to become disturbed over parts of Bengal, and rather numerous showers were reported on the morning of Friday, the 24th, over North Bengal and North Behar; but up to this time the disturbance had not advanced sufficiently far over Bengal to cause rain over the remainder of the province. At the close of the week, therefore, conditions were distinctly favourable for rain over a considerable part of the province. As is usual during the passage of barometric depressions, temperature became abnormally high, while the air was also rather largely saturated with moisture; the sky also became more or less clouded over during the passage of these depressions, so that as two of these depressions have affected the weather in the province during the week under review, the meteorological conditions have been decidedly abnormal.

Pressure—Has been below the normal almost throughout the week, and the mean pressure has been about a tenth of an inch lower than usual. The actual variations in the mean pressure are from a defect of 0 132 inch at Berhampur to one of 0 078 inch at Rungpur.

Temperature—As stated previously, has been decidedly high, particularly during the passage of the depressions, when on some days, such as the 24th, the mean temperature of most of the stations in the west and south-west of the province became from five to nearly nine degrees above the normal The mean temperature for the whole province for the week has been 3·7° above the normal for the period; and while the excess has been fairly equally distributed, the excess temperatures have been largest in Behar and Chutia Nagpur, where they have equalled from four to four and-a-half degrees.

The actual temperatures during the week, the range from day to night, and their variations from the normal values, are best seen in the following table, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are given, together with the normal values. In both day and night temperatures in all districts of the province it will be seen that temperatures have been decidedly high:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 24th January 1890.

	Normal mean maximum temperature for the week ending 24th January.	Actual mean maximum temperature for the week ending 24th January 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 24th January.	Actual mean minimum temperature for the week ending 24th January 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 24th January	Actual mean daily temperature for the week ending 24th January 1890.	Variation of actual mean from the normal.
Cuttack	85 0	86 1	+1·1	59·8	61·7	+1·9	72 4	73 9	+1 5
Calcutta	76 7	78 9	+2·2	54·8	59 5	+4·7	65 8	69·2	+3·4
Dacca	78·5	79 8	+1 3	54 6	57 7	+3·1	66 6	68 7	+2 1
Burdwan	78 5	80 7	+2 2	54 2	59 8	+5·6	66 4	70 2	+3 8
Patna	72 9	76·9	+4 0	49·5	55 6	+6 1	61·2	66 2	+5 0
Gya	75 9	80 0	+4 1	51·1	54 7	+3 6	63·5	67 4	+3 9
Purneah	74 7	75·3	+0 6	48 2	52 4	+4 2	61 4	63 9	+2 5
Hazaribagh	72 7	77·5	+4 8	50 3	55 8	+5 5	61·5	66 7	+5 2
Darjeeling	44·4	53 5	+9 1	34·0	35 7	+1 7	39·2	44·5	+5 3

Rainfall.—The rainfall in East Bengal during the week has averaged almost half an inch, in North Bengal about a quarter of an inch, and in North Behar about a fifth of an inch. The falls in South-West Bengal only averaged a few hundredths of an inch, while in Orissa, Chutia Nagpur, and South Behar there was no rain. The districts receiving the largest amounts of rain were—in East Bengal, Furreedpur, Comillah, Mymensingh, and Dacca; in North Bengal, Julpigoree, Rungpur, and Bogra; in North Behar, Chumparun and Purneah; and in South-West Bengal, the Jessore and Khoolna districts.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 24th of January 1890:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Of week. Average.	Normal average.	Variation.	Rainy days. Average number in week.	Normal average number in week.	Variation.	Since 1st of month. Average.	Normal average.	Since 1st May 1889. Average.	Normal average.
Orissa	88·9	53·5	82·6	62·6	72·6	+2·4	Nil	0·06	—0·06	0·0	0·3	—0·3	Nil	0·16	62·01	53·69
South-West Bengal ...	86·3	53·9	80·3	59·3	69·7	+3·7	0·04	0·10	—0·06	0·3	0·4	—0·1	0·04	0·29	52 41	51·35
East Bengal	81·3	54·0	78·0	57·8	67·9	+3·0	0·51	0·15	+0·36	0·9	0·5	+0·4	0·51	0·37	76·94	74·06
North Bengal	80·1	51·9	77·9	54·6	66·3	+3·3	0·27	0·14	+0·13	0·8	0·5	+0·3	0·29	0·30	73·41	70·17
North Behar	78·3	49·9	75·9	54·0	65·0	+4·1	0·19	0·17	+0·02	0·4	0·6	—0·2	0·19	0 39	37·85	43·58
South Behar	82·6	50·9	78·5	54·5	66·5	+4·5	0	0·17	—0·17	0	0·5	—0·5	0	0·40	44·16	43·74
Chutia Nagpur	83·0*	50·5*	77·6*	54·4*	66 0*	+4·5*	Nil	0·17	—0·17	0·0	0·5	—0·5	Nil	0·46	43·08	43·34

* Chyebassa not included.

Meteorological Office, Bengal; A. Pedler,
The 28th January 1890. *Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 19th to 25th January 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Jan. 1890 ...	19th ...	29·993	71·5	82·9	22·8	60·1	74·6	69·6	·658	66·8	77	...
,, ,, ..	20th ...	·926	72·3	79·9	15·2	64·7	72·1	68·6	·653	66·6	88	...
,, ,, ...	21st ...	·984	69·1	77·9	17·6	60·3	70·6	66·1	·582	63 2	78	...
,, ,, ..	22nd ...	·992	68·9	78·9	20·0	58·9	71·0	65·0	·539	61·1	71	...
,, ,, ...	23rd ...	·955	70·2	81·4	22·5	58·9	73·6	65·6	·525	60·3	63	.
,, ,, .	24th ...	·878	73·5	82·9	18·8	64·1	76·4	70·6	·672	67·4	74	...
,, ,, ...	25th ...	·916	70·3	76·9	13·2	63·7	68·4	65·0	·573	62·8	83	1·02

The mean 10 A.M. pressure of the seven days	Inches.	29·949
The mean temperature of the seven days	°	70·8
The extreme variation of temperature		24·0
The maximum temperature		82·9
The mean 10 A.M. relative humidity of the seven days	%	76
The total fall of rain from 19th to 25th January 1890	Inches.	1·02

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 27th January 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 19th to 25th January 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan.	19th	130·8	9·4	29·897	69·7	81·4	23·1	58·3	65·3	0·571	62·7	80	SW by S, SW and S by E.	96	Nil	Clear, ⌓, ≡.
,,	20th	131·0	6·5	·854	70·9	79·0	14·7	64·3	66·5	·592	63·7	79	S by E, NNW and variable.	80	,,	Chiefly cloudy, o.
,,	21st	132·4	8·8	·909	68·4	76·4	16·1	60·3	63·7	·529	60·6	77	NE, NNW and calm	62	,,	Chiefly clear, ⌓.
,,	22nd	129·4	8·9	·904	67·4	77·8	20·0	57·8	62·3	·498	58·8	76	WNW and calm ...	35	,,	Chiefly clear, ⌓, ≡.
,,	23rd	134·1	9·5	·862	68·5	79·2	21·9	57·3	63·3	·517	59·9	76	SSW, SW and calm	59	,,	Clear, ⌓, ≡.
,,	24th	133·3	9·3	·803	72·6	81·7	18·0	63·7	68·6	·651	66·4	81	SSE, SSW and variable.	161	,,	Chiefly clear, ⌓.
,,	25th	132·7	8·1	·860	66·8	75·7	12·9	62·8	63·4	·539	61·0	82	NNW and calm ...	79	0·77	Chiefly cloudy, o, p.

	Inches.
The mean pressure of the seven days	29·870
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·005
	Hours.
The total number of hours of bright sunshine	60·5
The maximum possible number of hours of sunshine	76·6
	°
The mean temperature of the seven days	69·2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	68·4
The extreme variation of temperature	24·4
The maximum temperature	81·7
	Miles.
The highest velocity of the wind in one hour	14
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	79
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	70
	Inches.
The total fall of rain from 19th to 25th January 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·05
The total fall from 1st to 25th January 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·19

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, p passing temporary showers, ⌓ dew; ≡ fog.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 27th January 1890.

MEMORANDUM.

BIRTHS and deaths were registered in the principal Municipalities in Bengal during the week ending 11th January 1890, at the rates, respectively, of 22·8 and 25·9 per 1,000 of population, against 25·8 and 23·7 per 1,000 during the preceding week ending 4th January, indicating a retrogression in the registration of births and an increase in that of deaths.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.

	Ratio per *mille.*
Chupra	42·3
Bali	42·1
Arrah	38·3
Rampore Beauleah	36 8
Midnapore	31·0
Comillah	30·8
Durbhanga	30 7
Jessore	30 6

Deaths.

	Ratio per *mille.*
Poori	58·7
Arrah	58 6
Jessore	55·1
Darjiling	44 5
Chittagong	42·3
Ranaghat	41·9
Burdwan	39 7
Comillah	38·5
Hughli and Chinsurah	36·1
Dacca	33·7

3. The specific diseases, as noted below, proved fatal at the rates exhibited opposite them :—

	Ratio per *mille* during the weeks ending—	
	11th January 1890.	4th January 1890.
Cholera	2·4	2·2
Small-pox	·4	·5
Fever	11·5	9 8
Bowel-complaints	3·1	3·6
Injury	·4	·2
Other causes	8·1	7·3

indicating chiefly, that the mortality from fever was higher during the week under notice than during the preceding week ending 4th January.

4. Of the diseases mentioned above, small-pox was noticeably severe in Poori town, there being seven deaths (mortality 14·7 per 1,000 of population), and bowel-complaints prevailed in Hughli and Chinsurah Municipality (mortality 14·7 per 1,000 population), while cholera, fever and the maladies coming under the head of "Other causes" were reported to have been notably fatal in the following Municipalities :—

Cholera.

	Ratio per *mille.*
Jessore	36·7
Chittagong	9·4
Burdwan	9 2
Howrah	6·3
Dacca	3·9

Fever.

	Ratio per *mille.*
Arrah	49·0
Darjiling	44·5
Purneah	24·2
Rampore Beauleah ...	23·6
Chittagong	21·1

Other causes.

	Ratio per *mille.*
Midnapore	23·2
Poori	18·9
Dacca	14 9
Durbhanga	12 6
Bhagulpore	11·8
Gya	10·2
Chupra	10·1

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	30·4
Females	21·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	143

According to Class.

	Ratio per *mille.*
Christians	14·9
Hindus	25·8
Mahomedans ...	26·5
Budhists	25·7
Other classes ...	76·8

According to Age.

	Ratio per *mille.*
Under 1 year ...	172 1
1 and under 5 years ...	25·2
5 „ 10 „ ...	13·7
10 „ 15 „ ...	9·7
15 „ 20 „ ...	14·1
20 „ 30 „ ...	16·0
30 „ 40 „ ...	23·7
40 „ 50 „ ...	22·4
50 „ 60 „ ...	32·9
60 years and upwards ...	66·4

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 27th January 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 11th January 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.														Sex.				
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	15,063	16,017	34,080	9	6	15	15·7	9·2	22·9	150	6	...	11	5	...	4	26	9·2	...	16·8	7·6	...	6·1	39·7	44·2	17	9	48·9	29·2	165
Midnapore ...	Midnapore ...	16,927	16,633	33,560	10	10	20	15·5	15·5	31·0	100	...	...	1	2	...	15	18	...	...	1·5	3·1	...	23·3	27·9	26·3	12	6	56·9	18·8	300
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	5	7	12	8·2	11·5	19·7	71	2	—	9	9	...	2	22	3·3	...	14·7	14·7	...	3·3	36·1	47·6	10	12	32·8	39·4	82
Serampore ...	Serampore ...	13,559	12,937	26,496	8	6	14	4·6	3·4	8·0	133	1	...	9	5	...	8	23	·6	...	5·1	2·9	...	4·6	13·2	39·3	14	9	13·7	12·4	108
	Utterpara	3,046	2,464	5,510	...	...	...	...	...	...	.....	1	...	...	1	...	1	3	3·5	...	...	3·5	...	3·5	10·5	84·9	2	1	13·3	7·5	166
Howrah ...	Howrah	53,153	37,660	90,813	22	18	40	12·6	10·3	22·9	122	11	...	24	3	...	7	45	6·3	...	13·7	1·7	...	4·0	25·8	24·6	34	11	33·3	15 2	220
	Bali	7,836	6,979	14,815	6	6	12	21·9	21·9	43·1	100	1	...	2	3	...	...	6	3·5	...	7·0	10·5	...	...	21·0	28·1	5	1	35·2	7·5	471
Nuddea ...	Kishnaghur ...	13,363	14,214	27,477	5	4	9	9·5	7·5	17·0	125	...	...	4	...	...	3	7	...	...	7·5	...	...	5·7	13·2	13·2	6	1	23·5	3·7	766
	Ranaghat	4,028	4,655	8,683	...	...	...	...	...	...	.....	3	...	1	...	1	2	7	17·9	...	6·0	...	6·0	12·0	41·9	36·9	3	4	35·7	44·7	86
	Santipore	15,708	15,979	29,687	2	2	4	3·5	3·5	7·0	100	...	...	6	...	...	...	6	...	...	10·5	...	...	...	10·5	12·3	3	3	11·4	9·8	122
Jessore ...	Jessore	4,830	3,665	8,495	4	1	5	24·5	6·1	30·6	400	6	...	1	...	...	2	9	36·7	...	6·1	...	...	12·2	55·1	49·0	6	3	64·6	42·6	183
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	9	14	13·1	23·6	36·8	55	...	...	9	...	...	1	10	...	...	23·6	...	...	2·6	26·3	31·5	5	5	24·2	28·8	86
Darjiling ...	Darjiling	4,879	2,439	7,018	...	2	2	...	14·8	14·8	No male birth.	...	...	6	...	...	...	6	...	...	44·5	...	...	...	44·5	37·0	5	1	56·8	21 3	267
Dacca ...	Dacca	42,782	37,379	80,161	18	17	35	11·7	11·0	22·7	105	6	...	12	9	2	23	52	3·9	...	7·8	5·8	1·3	14·9	33·7	24·7	36	16	43·8	22·3	195
	Narsinganj ...	7,605	4,956	12,561	3	2	5	12·4	8·3	20·7	150	3	...	1	1	...	2	7	12·4	...	4·1	4·1	...	8·3	29·0	53·8	4	3	27·4	31·5	87
Chittagong ...	Chittagong ...	13,340	8,790	22,130	4	1	5	9·4	2·3	11·7	400	4	...	9	2	...	3	18	9·4	...	21·1	4·7	...	7·0	42 3	30·5	16	2	63·4	11·8	563
Tipperah ...	Comillah	8,153	5,353	13,506	2	6	8	7·7	23·1	30·8	33	1	...	4	2	...	3	10	3·8	...	15·4	7·7	...	11·6	38·5	57·7	6	4	38 3	38·9	100
Patna	Patna City ...	78,762	81,475	160,237	21	20	41	6·8	6·5	13·3	105	1	1	9	5	2	11	29	·3	·3	2·9	1·6	·6	3·6	9·4	9·4	18	11	11·9	7·6	157
Gya	Gya	38,290	37,831	76,121	16	14	30	10·9	9·6	20·5	114	...	...	23	...	...	15	38	...	...	15·7	...	...	19·2	26 0	23·9	16	22	21·7	30·2	70
Shahabad ...	Arrah	20,960	22,505	43,465	12	20	32	14·4	23·9	38·3	60	...	1	41	4	1	2	49	...	1·2	49·0	4·8	1·2	2·4	58·6	13·2	22	27	54·6	62·4	87
Mozufferpore .	Mozufferpore ...	23,094	19,668	42,742	9	10	19	10·9	12·2	23·1	90	...	...	2	2	...	5	9	...	...	2·4	2·4	...	6·1	10·9	4·9	5	4	11·3	10·6	110
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	23	16	39	18·1	12·6	30·7	143	...	...	17	...	...	16	33	...	...	13·4	...	...	12·6	26·0	23·6	18	15	27·7	24·1	112
Saran	Chupra	25,116	26,554	51,670	24	18	42	24·2	18·1	42·3	133	...	...	2	2	1	10	15	...	...	2·0	2·0	1·0	10·1	15·1	12·1	12	3	24·8	5·9	430
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	10	29	17·2	9·0	26·2	190	...	...	7	2	...	13	22	...	...	6·3	1·8	...	11·8	19·9	19·0	13	9	22·8	16·8	137
Monghyr ...	Monghyr	28,154	29,366	57,520	20	6	26	18·1	5·4	23·5	333	...	...	12	3	2	8	25	...	...	10·3	2·7	1·8	7·2	22·6	19·9	13	13	24·0	21·2	114
Purneah ...	Purneah	8,468	6,553	15,016	1	...	1	3·5	...	3·5	No female birth.	...	...	7	...	...	...	7	...	...	24·2	...	...	...	24·2	6·9	4	3	24·6	23·8	104
Poori	Poori	13,247	11,537	24,784	1	6	7	2·1	12·6	14·7	16	2	7	6	4	...	9	28	4·2	14·7	12·6	8·4	...	18·9	58·7	51·8	17	11	66·7	49·6	154
	Total ...	550,986	510,588	1,061,574	249	217	466	12·2	10·6	22·8	115	48	9	235	64	9	165	530	2·4	·4	11·5	3·1	·4	8·1	25·9	23·7	322	208	30·4	21·2	143

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Burdwan ...	Burdwan	...	18	6	...	...	...	39·5	40·5	...	...	3	1	2	1	...	5	9	1	2	2	236·4	23·0	44·6	20·7	...	32·8	60·3	11·8	42·4	70·2
Midnapore ...	Midnapore ...	...	15	3	...	...	...	30·1	21·6	...	...	6	1	1	...	2	1	2	3	1	1	419·9	23·1	13·9	...	33·9	7·1	18·8	41·9	25·2	28·4
Hughli ...	Hughli and Chinsurah	...	18	4	...	...	...	37·0	33·7	...	...	1	3	1	1	1	4	5	2	1	3	64·8	70·3	18·0	21·0	20·7	33·5	45·5	24·9	20·0	75·3
Serampore ...	Serampore ...	...	21	2	...	...	...	16·0	5·1	...	...	4	6	1	...	...	5	2	3	...	2	100·3	56·3	5·3	...	...	11·5	5·4	13·3	...	27·7
	Utterpara	...	3	...	...	...	...	11·6	...	...	...	...	1	...	...	...	...	.	2	...	...	...	104·1	...	...	...	...	...	53·7	...	..
Howrah ...	Howrah	...	29	15	...	1	...	23·1	39·0	...	215·8	7	4	1	1	1	8	14	3	3	3	176·4	37·5	8·3	7·9	7·1	18·3	37·8	13·3	28·4	41·6
	Bali	...	5	1	...	...	...	19·4	38·7	...	...	...	...	..	...	...	...	2	1	...	3	...	..	...	...	...	...	37·3	26·9	...	213·1
Nuddea ...	Kishnaghur ...	...	5	2	...	...	...	14·0	12·6	...	...	2	1	...	...	...	...	2	1	...	1	209·7	21·1	...	...	...	...	24·3	15·9	...	30·1
	Ranaghat	...	6	1	...	...	...	42·6	38·1	...	...	...	...	2	...	...	2	1	...	...	2	...	...	93·3	...	...	60·0	41·7	...	.	182·8
	Santipore	...	5	1	...	...	...	12·6	5·8	...	...	...	1	...	1	...	...	1	1	1	1	...	17·9	...	17·9	...	...	12·0	14·8	22·6	26·5
Jessore ...	Jessore	...	6	3	...	...	...	69·2	40·3	...	...	...	1	...	...	1	3	1	1	1	1	...	105·3	...	...	71·0	77·5	34·0	49·5	22·4	113·5
Rajshahye ...	Rampore Beauleah	...	5	5	...	...	...	26·2	26·5	...	...	1	...	2	..	...	1	1	...	...	5	128·1	...	50·0	...	...	42·5	14·4	...	...	270·0
Darjiling ...	Darjiling	...	6	...	...	...	...	67·9	...	...	...	2	...	...	...	...	...	3	...	1	...	859·5	...	...	..	...	...	108·9	...	213·1	...
Dacca ...	Dacca	...	30	22	...	...	...	33·7	28·4	...	...	7	2	5	3	4	6	6	5	7	7	191·8	14·1	26·2	19·6	28·5	30·4	26·8	31·0	76·9	65·3
	Naraingunj ...	...	3	4	...	...	...	24·7	33·8	...	...	2	...	...	...	...	1	4	..	..	...	372·8	..	...	...	...	19·5	97·2	...	...	...
Chittagong ...	Chittagong ...	...	3	14	1	...	...	26·9	47·6	216·7	...	1	1	2	1	...	4	2	4	2	1	93·4	26·4	41·6	20·2	...	44·9	31·2	92·2	95·9	65·3
Tipperah ...	Comillah	...	2	8	...	...	...	17·5	56·3	...	...	3	1	...	...	...	...	.	3	...	3	525·3	39·8	...	...	...	..	...	118·7	...	210·1
Patna	Patna City ...	...	19	10	...	...	...	8·3	12·7	...	...	6	2	2	...	...	4	3	2	3	7	72·4	7·1	6·2	...	...	7·2	6·7	5·5	11·0	26·4
Gya ...	Gya	...	31	7	...	...	...	26·9	23·6	...	...	5	7	...	...	...	4	3	3	5	11	145·3	57·3	...	...	...	14·1	12·3	16·9	39·6	111·1
Shahabad ...	Arrah	...	41	8	...	...	...	68·7	33·5	...	...	6	3	3	3	6	8	9	3	2	6	242·2	35·2	30·4	35·3	97·1	53·0	72·7	33·3	33·6	108·2
Mozufferpore ...	Mozufferpore ...	...	6	3	...	...	...	10·4	12·5	...	...	1	..	...	2	...	...	...	2	...	4	54·5	...	...	26·3	...	...	...	20·8	...	95·5
Durbhanga ...	Durbhanga ...	...	20	13	...	...	...	21·5	38·5	...	...	2	5	2	3	2	...	3	3	5	5	66·8	34·2	13·3	28·1	25·9	...	14·0	21·0	59·3	130·2
Sarun	Chupra	2	9	4	...	...	972·0	11·8	17·5	...	...	9	...	...	...	1	1	...	1	1	2	331·7	...	...	...	15·0	5·6	...	8·8	12·6	30·6
Bhagulpore ...	Bhagulpore ...	...	16	6	...	...	...	29·9	18·1	...	...	3	...	...	...	2	1	1	4	7	4	130·7	...	...	...	24·9	4·8	5·6	33·0	85·5	57·7
Monghyr ...	Monghyr	...	19	6	...	...	...	22·1	24·8	...	...	9	...	1	1	1	1	5	3	...	4	315·2	...	7·4	9·1	13·8	5·0	29·1	24·5	...	58·9
Purneah ...	Purneah	...	7	...	...	...	...	39·7	...	...	...	...	1	2	...	...	1	...	...	1	2	...	43·0	65·8	...	...	15·8	...	...	55·5	128·9
Poori ...	Poori	...	28	...	...	...	...	59·4	...	...	...	4	4	2	1	1	5	1	3	6	1	686·5	115·7	46·4	27·7	28·0	49·2	12·8	43·9	139·8	28·6
	TOTAL ...	...	376	150	1	1	14·9	25·8	26·5	25·7	76·8	84	45	29	18	22	65	80	54	49	84	172·1	25·2	13·7	9·7	14·	16·0	23·7	22·4	32·9	66·4

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 27th January 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of November 1889.

Number of boats or rafts	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
391	1. Grain ...	349	4,217	4,606	2,75,726	4,606	2,75,726	
	2. Cotton ...	.....	.....	.....	...	...	...	
101	3. Oilseeds ...	16	1,301	1,317	1,75,965	1,317	1,75,965	
407	4. Salt ...	3,898	.....	3,898	3,33,993	3,898	3,33,993	
..	5. Piece-goods ...	.....	.	.....	.....	...	.....	
14	6. Metal .	50	19	69	24,830	69	24,830	
25	7. Building materials	151	36	187	1,764	187	1,764	
939	8. Miscellaneous ...	2,210	7,063	9,273	13,74,310	9,273	13,74,310	
72	9. Fuel ...	734	101	835	10,425	835	10,425	
2 rafts	10. Timber ...	852 c. ft.	520 c. ft.	1,372 c. ft.	2,838	1,372 c. ft.	2,838	
6 „	11. Bamboos ...	93 „	1,600 „	1,693 „	169	1,693 „	169	
1,949 & 3 rafts.	12. Total ...	7,448 & 945 c. ft.	12,737 & 2,120 c. ft.	20,185 & 3,065 c. ft.	22,00,020	20,185 & 3,065 c. ft	22,00,020	
2,228 & 14 rafts.	13. Total of same month last year	5,689 & 166 c. ft.	18,185 & 3,698 c. ft.	23,874 & 3,864 c. ft.	28,11,085	23,874 & 3,864 c. ft.	28,11,085	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	876	1,073	1,949
14*a*. Ditto empty boats, steamers, &c. No.	456	111	567
15. Total number of boats plying passenger No.	995	1,622	2,617
15*a*. Ditto empty boats „	61	24	85
16. Total registered tonnage, cargo Tons	17,726	26,817	44,543
17. Total registered tonnage, passenger Tons	447	335	782
18. Ton-mileage .	.....	.....	.....
19. Estimated value of cargo Rs.	8,35,223	13,61,790	21,97,013
20. Number of passengers No.	20,797	13,884	34,681
21. Rafts, bamboos C. ft.	93	1,600	1,693
22. Do., bullahs „	852	520	1,372
23. Estimated value of rafts Rs.	1,287	1,720	3,007
24. Tollage on boats „	4,809-6-6	7,411-0-6	12,220-7-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	6-0-0	11-10-0	17-10-0
27. Total tollage on boats per ton-mile* ...	.....	.....	.....
28 Ditto on rafts per 100 cubic feet ... Rs.	.....	.. ...	0-9-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	12,238	1	0
Total tollage of same month last year ...	13,321	1	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	480	2	6
2. Tollage per month ...	12,238	1	0
3. Total ...	12,718	3	6
4. Amount paid into Treasury during the month ...	12,349	4	6
5. Balance due at the end of the month ...	368	15	0

* Boats in these rivers do not pay per mile.

Abstract for the month of November 1889 *as compared with the corresponding month of the previous year.*

	1889-90. During the month.			To end of the month.			1888-89. During the month.			To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Tollage	12,238	1	0	1,46,101	3	9	13,321	1	6	1,54,152	5	2

CALCUTTA,
The 28th January 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Beng...

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of November 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
78	1. Grain ...	611	215	826	42,487	826	42,487	
..	2. Cotton ...	.....	.....	.....	...	... ..	.....	
7	3. Oilseeds ...	35	.....	35	3,040	35	3,040	
18	4. Salt ...	.....	140	140	16,915	140	16,915	
5	5. Piece-goods ...	.....	43	43	8,100	43	8,100	
2	6. Metal ...	.....	3	3	575	3	575	
14	7. Building materials	32	22	54	543	34	383	
516	8. Miscellaneous ...	466	322	788	1,01,805	788	1,01,775	
8	9. Fuel ...	.....	81	81	606	81	606	
16 rafts	10. Timber ...	1,977 c. ft.	.....	1,977 c. ft	1,335	1,977 c. ft.	1,335	
32 „	11. Bamboos ...	1,300 „	.....	1,300 „	141	1,300 „	141	
648 & 48 rafts.	12. Total ...	1,144 & 3,277 c. ft.	826	1,970 & 3,277 c ft.	1,75,547	1,950 & 3,277 c.ft.	1,75,357	
836 & 46 rafts.	13. Total of same month last year	2,053 & 2,927 c. ft.	463 & 237 c. ft.	2,516 & 3,164 c. ft.	1,54,036	2,516 & 3,164 c.ft	1,54,036	

	Up.	Down.	Total.
14. Total number of boats plying cargo No	340	308	648
15. Total number of boats plying passenger No.	78	78	156
16. Total registered tonnage, cargo Tons	2,698	2,364	5,062
17. Total registered tonnage, passenger Tons	795	787	1,582
18. Ton-mileage ...	116,000	119,161	235,161
19 Estimated value of cargo Rs.	79,528	94,543	1,74,071
20. Number of passengers No.	1,485	1,361	3,346
21. Rafts, bamboos C. ft.	1,300	.....	1,300
22. Do., bullahs „	1,977	.....	1,977
23. Estimated value of rafts Rs.	1,476	.....	1,476
24. Tollage on boats „	2,036-2-3	2,092-1-6	4,128-3-9
25. Compounded tollage on boats Rs.	.....	4-8-0	4-8-0
26. Tollage on rafts „	75-12-0	.. ...	75-12-0
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·3
28. Ditto on rafts per 100 cubic feet Rs.	.....	.....	2-4-11

	Rs. A. P.
Total tollage of month—24+25+26 ...	4,208 7 9
Total tollage of same month last year ...	3,647 14 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	4,372 13 0
2. Tollage per month ...	4,208 7 9
3. Total ...	8,581 4 9
4. Amount paid into Treasury during the month ...	4,178 10 9
5. Balance due at the end of the month ...	4,402 10 0

Abstract for the month of November 1889 as compared with the corresponding month of the previous year.

	1889-90. During the month.	1889-90. To end of the month.	1888-89. During the month.	1888-89. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	4,208 7 9	37,829 0 6	3,647 14 6	42,143 4 0

CALCUTTA,
The 28th January 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 25th January 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 25th January 1890.			Week ending Saturday, the 26th January 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,774	3,14,270	5,443	1,803	5,06,175	8,984
Jute	188	1,06,583	2,096	142	97,075	1,735
Firewood	72	47,300	720	125	61,400	878
Other articles	937	2,09,305	3,186	1,244	2,53,510	3,715
Total ...	2,971	6,77,458	11,365	3,314	9,18,160	15,312

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of December 1889, *as compared with the same month of the previous year.*

Staples.	1888.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up	Down.	1888.	1889.		
	Tons	Tons.	Tons.	Tons.	Tons	Tons.	Tons.	Tons.
Coal	462	.....	507	.....	462	507	..	145
Cotton, raw	25	.	6	.....	25	6	..	19
Cotton twist and yarn—								
1.—European	1	1	....	.....	2	.... .	... ..	2
Cotton piece-goods—								
1.—European	47	1	55	.....	48	55	7	...
Dyes and tans—								
1.—Indigo	.....	2	... ..	5	2	5	3	.....
Grains—								
1.—Wheat	..	1	.	.....	1		..	1
2.—Rice	1	746	62	1,071	747	1,133	386	..
4.—Others	21	57	29	18	18	78	47	31
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed ...		7	.....	. .	7	...	.....	7
b.—Undressed ..		1	....	3	1	3	2	...
2.—Skins of sheep, goats and small animal—								
a.—Dressed ...	...	1	.	.	1	..		1
Jute—								
1.—Raw ...	...	37	. ....	138	37	138	101	.....
2.—Gunny bags and cloths	20	2	35	3	22	38	16	... ..
Leather, manufactured	8	.....	5	.....	8	5	... ..	3
Metals—								
2.—Iron	20	.....	10	.....	29	10	.....	19
4.—Others	8	7	7	2	15	9	.....	5
Oils—								
1.—Castor	1	.....	.....	...	1	.. . .	. ..	1
2.—Kerosine	2	.....	6	.....	2	6	4	
3.—Others	13		8	... ..	13	9	...	5
Oilseeds—								
1.—Linseed	...	16	...	.....	16	.. ..	.....	16
2.—Mustard and rape	99	.....	29	.....	99	29	.....	70
3.—Til or gingelly ...	....	.....	7	...	...	7	7	..
6.—Others	.....	3	.....	.....	... 3	.....	.....	3
Provisions—								
1.—Ghee	.		4	. ..	... .	4	4	...
2.—Dried fruits and nuts	7		4		7	4	.....	3
3.—Others	63	..	63	.....	68	63	...	5
Railway plant and rolling-stock	8	21	29	4	29	33	4	
Salt	38	.....	27	.....	38	27	.....	11
Silk, raw—								
1.—Indian	2	7	29	8	9	37	28	.....
Silk piece-goods—								
2.—Indian		5	. ..	4	3	4	....	1
Stone and lime	6	3	9	... ..	9	9	.	.....
Sugar—								
1.—Drained	19	.....	18	... .	19	18	... ..	1
2.—Undrained	4	.....	85	.	4	85	81	..
Tobacco	5	1	. .	.....	6	.....	... ..	6
Timber	1	 18	3	. 72	1	3	2	..
All other articles of merchandise	56		45		74	117	43	...
Total ...	1,141	987	1,082	1,328	2,078	2,410	688	356

Increase.	Tons.
Cotton piece-goods—	
(1) European	7
This increase is due to steamer service between Jeaganj and Calcutta being stopped for want of sufficient water.	
Grains—	
(2) ice	386
This increase is due to greater export owing to high market rate at Calcutta.	
Jute —	
(1) Raw	101
This increase is due to greater export owing to high rate in some parts of Hooghly district.	

	Tons.
(2) Gunny-bags and cloths	16
This increase is due to the import of gunny-bags for export of rice.	
Oilseeds—	
(3) Til or gingelly	7
This increase is due to there being no traffic under this head last year.	
Silk, raw—	
(2) Indian	28
This increase is due to import of tussur silk cocoons from Raniganj district.	
Sugar—	
(2) Undrained	81
This increase is due to greater import owing to high rate at Azimganj.	
DECREASE.	
Coal	145
This decrease is due to less import owing to previous stock not being exhausted.	
Cotton, raw	19
This decrease is due to previous stock not being exhausted.	
Grains—	
(4) Others	31
This decrease is due to failure of kollyee crops this year.	
Hides and skins—	
(1) Hides of cattle—	
(*a*) Dressed	7
This decrease is due to non-carriage of such articles this year.	
Metals—	
(2) Iron	19
This decrease is due to less demand this year.	
Oilseeds—	
(1) Linseed	16
This decrease is due to non-export this year owing to high rate at Azimganj.	
(2) Mustard and rape	70
This decrease is due to less import owing to local dull market rate.	
Salt	11
The decrease is due to import by boat in previous months.	
Tobacco	6
The decrease is due to non-carriage this year.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 18th January 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*275,259	*3,16,510 12 0	23,96,401 0	5,73,138 12 0	19,790 8 0	9,09,440 1 0	66,781½	90,544½	156,327
Or per mile of railway	.....	207 7 8	.....	375 11 3	12 15 7	596 2 6	.....	.....	.....
For previous 2 weeks of half-year	361,717	4,16,729 7 0	42,50,665 20	9,60,460 2 0	30,683 8 0	14,07,873 1 0	100,533½	146,312½	246,846½
Total for 3 weeks ...	636,976	7,33,240 3 0	66,47,066 20	15,33,598 15 0	50,474 0 0	23,17,313 2 0	166,315½	236,857	403,172½
COMPARISON.									
Total for corresponding week of previous year	247,347½	2,92,502 14 4	27,22,496 0	5,96,422 9 8	14,557 15 1	9,05,513 7 1	66,271	93,942	160,213
Per mile of railway corresponding week of previous year ...	.....	191 11 10	.....	392 4 6	9 9 0	593 9 4	.....	.....	.....
Total to corresponding date of previous year	632,194½	7,53,877 10 10	76,29,282 30	16,92,573 13 3	41,403 4 6	24,87,858 12 7	177,513	273,536	451,049

* The increase in coaching traffic is principally due to the "Magh Mela" held at Allahabad.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,05,513	594	1,525½	9,09 440	596	1,525½	3,50,27,554	547	1,525½	3,48,78,350	544	.....	149,204

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week-ended 18th January 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,030	6,398 10 0	32,767 0	2,207 5 0	52 0 0	8,648 15 0	1,718	1,242	2,960
Or per mile of railway	210½	111 11 4	573 0	38 9 5	0 14 6	151 3 3	.....	.....	.....
For previous 2 weeks of half-year	21,710	11,145 9 0	53,625 30	3,051 13 0	72 13 0	14,880 3 0	2,746	1,016	3,762
Total for 3 weeks ...	33,749	17,535 3 0	86,392 30	5,259 2 0	124 13 0	23,529 2 0	4,464	2,258	6,722
Comparison									
Total for corresponding week of previous year ...	11,037	6,328 14 10	25,557 20	1,882 5 0	33 0 0	8,244 3 10	1,936	458	2,394
Per mile of railway corresponding week of previous year ...	209	110 10 4	447 0	33 14 6	0 9 3	144 2 1	.....	.....	.....
Total to corresponding date of previous year	34,800	18,514 1 10	70,202 0	4,619 8 0	102 2 9	23,235 12 7	5,162	1,336	6,498

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	8,244	144	57½	8,649	151	57½	3,91,994	163	57½	4,05,960	169	13,966	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th January 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,578	4,838 12 0	10,374 10	375 1 0	8 4 0	5,212 1 0	902	60	962
Or per mile of railway ...	.....	217 0 4	.....	16 13 9	0 5 11	234 4 0	.....	.....	.....
For previous 2 weeks of half-year	28,832	7,334 11 0	17,311 0	722 3 0	10 8 0	8,067 6 0	1,419	99	1,518
Total for 3 weeks ...	48,410	12,173 7 0	27,685 10	1,097 4 0	18 12 0	13,279 7 0	2,321	165	2,486
Comparison.									
Total for corresponding week of previous year	19,791	4,887 13 9	11,216 0	363 9 0	3 1 9	5,254 8 6	896	72	968
Per mile of railway corresponding week of previous year ...	.....	219 10 10	.....	16 5 5	0 2 3	236 2 6	.....	.....	.....
Total to corresponding date of previous year	30,994	12,593 5 0	26,302 20	902 8 0	14 3 9	13,510 0 9	2,434	184	2,618

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,255	236	22½	5,212	234	22½	2,20,393	236	22½	2,17,275	233	.....	3,118

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for first 11 *days of January* 1890, *on* 747 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S	Rs. A. P	Rs. A. P.	Rs. A. P.			
Total traffic for first 11 days ...	270,740	1,18,230 0 0	9,71,200 0	2,36,940 0 0	26,810 0 0	3,81,980 0 0	36,369	58,769	95,138
Or per mile of railway ...	181	79 0 0	650 0	158 0 0	*5 0 0	242 0 0	.....	.....	... ..
For previous weeks of half-year	... ..	.	.	. ....		.....	.....	.....	..
Total for 2 weeks ..	270,740	1,18,230 0 0	9,71,200 0	2,36,940 0 0	26,810 0 0	3,81,980 0 0	36,369	58,769	95,138
COMPARISON.									
Total for corresponding 12 days of previous year ...	257,893	1,09,777 0 0	8,22,403 0	1,98,395 0 0	26,053 0 0	3,34,225 0 0	37,126	55,130	92,256
Per mile of railway corresponding period of previous year ..	192	82 0 0	611 0	147 0 0	*4 0 0	233 0 0	.....	... ..	.....
Total to corresponding date of previous year	257,893	1,09,777 0 0	8,22,403 0	1,98,395 0 0	26,053 0 0	3,34,225 0 0	37,126	55,130	92,256

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR FIRST 12 DAYS OF JANUARY 1889.			RECEIPTS FOR FIRST 11 DAYS OF JANUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 12TH JANUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH JANUARY 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	3,34 225	248	747	3,81,980	256	673	85,76,614	311	723	*90,20,143	304	4,43,529	.....

* Audited up to week ending 23rd November 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for first 11 *days of January* 1890, *on* 125 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 11 days ...	48,450	16,840 0 0	67,350 0	4,330 0 0	130 0 0	21,300 0 0	5,570	3,044	8,614
Or per mile of railway ...	194	67 0 0	269 0	17 0 0	1 0 0	85 0 0	.....	.....	.....
For previous weeks of half-year	.....	.. ...	..	. ..	..	.....	.... .	.....	.....
Total for 2 weeks ...	48,450	16,840 0 0	67,350 0	4,330 0 0	130 0 0	21,300 0 0	5,570	3,044	8,614
COMPARISON.									
Total for corresponding 12 days of previous year	46,217	15,433 0 0	75,770 0	3,700 0 0	2,450 0 0	21,583 0 0	6,425	3,320	9,745
Per mile of railway corresponding period of previous year ..	185	61 0 0	303 0	15 0 0	10 0 0	86 0 0	.....	.....	.....
Total to corresponding date of previous year	46,217	15,433 0 0	75,770 0	3,700 0 0	2,450 0 0	21,583 0 0	6,425	3,320	9,745

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR FIRST 12 DAYS OF JANUARY 1889.			RECEIPTS FOR FIRST 11 DAYS OF JANUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 12TH JANUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH JANUARY 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
125	21,583	86	125	21,300	85	125	5,67,738	111	123	*5,93,777	116	26,039	.. ...

* Audited up to week ending 23rd November 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for first 11 *days of January* 1890, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 11 days ...	29,270	11,200 0 0	57,640 0	5,740 0 0	500 0 0	17,530 0 0	4,036	1,088	5,124
Or per mile of railway	170	66 0 0	335 0	33 0 0	3 0 0	102 0 0	.....	.....	.....
For previous weeks of half-year	.....	... .	.....	.....	.....	.....	.....	... ..	.....
Total for 2 weeks ...	29,270	11,200 0 0	57,640 0	5,740 0 0	500 0 0	17,530 0 0	4,036	1,088	5,124
Comparison.									
Total for corresponding 12 days of previous year	27,313	8,156 0 0	11,913 0	1,315 0 0	276 0 0	9,747 0 0	4,284	1,070	5,354
Per mile of railway corresponding period of previous year . .	159	47 0 0	69 0	8 0 0	2 0 0	57 0 0	.....	.....	.....
Total to corresponding date of previous year	27,313	8,156 0 0	11,913 0	1,315 0 0	276 0 0	9,747 0 0	4,284	1,070	5,354

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for first 12 days of January 1889.			Receipts for first 11 days of January 1890.			Total receipts from 1st April 1888 to 12th January 1889.			Total receipts from 1st April 1889 to 11th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	9,747	57	86	17,530	102	86	2,33,221	60	86	*3,00,764	85	67,543	.....

* Audited up to week ending 23rd November 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 18*th January* 1890, *on* 27½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,166	1,050 0 0	18,181 0	1,105 0 0	13 0 0	2,168 0 0	509	254	763
Or per mile of railway	116	39 0 0	667 0	41 0 0	.....	80 0 0	.....	.....	.....
For previous one week of half-year	4,553	1,612 0 0	20,324 0	1,084 0 0	31 0 0	3,357 0 0	800	399	1,199
Total for 2 weeks ...	7,719	2,662 0 0	47,505 0	2,789 0 0	44 0 0	5,525 0 0	1,309	653	1,962
Comparison.									
Total for corresponding week of previous year	3,500	1,273 0 0	16,657 0	839 0 0	17 0 0	2,129 0 0	509	605	1,114
Per mile of railway corresponding week of previous year ...	123	46 0 0	611 0	31 0 0	1 0 0	78 0 0	.....	.....	.....
Total to corresponding date of previous year	8,553	3,186 0 0	41,388 0	2,105 0 0	39 0 0	5,330 0 0	1,381	1,367	2,748

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,120	78	27½	2,168	80	27½	80,571	74	27½	80,243	74	.....	328

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 18th January 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	45,981	24,287 0 0	2,24,434 0	23,571 0 0	5,124 0 0	52,982 0 0	6,038	6,763	13,385
Or per mile of railway	168	89 0 0	822 0	86 0 0	3 0 0	194 0 0*	.....	.....	.....
For previous one week of half-year	68,548	28,612 0 0	3,42,046 0	39,248 0 0	7,433 0 0	75,295 0 0	8,427	13,668	22,095
Total for 2 weeks ...	114,479	52,899 0 0	5,66,480 0	62,819 0 0	12,559 0 0	1,28,277 0 0	15,050	20,430	35,480
Comparison.									
Total for corresponding period of previous year	40,547	14,795 0 0	1,57,990 0	12,816 0 0	4,133 0 0	31,744 0 0	5,227	5,631	10,858
Per mile of railway corresponding week of previous year ...	149	54 0 0	605 0	47 0 0	6 0 0	107 0 0*	.....	.....	.....
Total to corresponding date of previous year	103,654	37,265 0 0	3,66,760 0	32,930 0 0	8,091 0 0	78,286 0 0	14,452	14,711	29,163

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	31,744	116	273	52,982	194	1264·29	18,28,389	126	273	16,11,709	147	2,83,320	.....

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[REGISTERED No 29.]

No. 6 of 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 161A.

GENERAL.—*The 24th January* 1890.—Baboo Bhoirub Nath Palit, Deputy Collector is appointed to perform the functions of a Collector under the Public Demands Recovrey Act VII (B C.) of 1880 in the district of Julpigoree.

The 29th January 1890.—Mr. M. Finucane, Director of Land Records, Bengal, acted in the first grade of Magistrates and Collectors from the 14th to the 19th instant, both days inclusive.

Mr. W. Fiddian, Magistrate and Collector, Pubna, acted in the first grade of Magistrates and Collectors from the 14th to the 19th instant, both days inclusive.

Mr. B. Dé, Officiating Magistrate and Collector, Khoolna, acted in the second grade of Magistrates and Collectors from the 14th to the 19th instant, both days inclusive, *vice* Mr. W. Fiddian.

The 31st January 1890.—Mr. J. B. Worgan, District and Sessions Judge, Cuttack, is allowed leave for fifteen days, under article 308 of the Civil Service Regulations, with effect from the date on which he availed himself of it.

Baboo Hurry Mohun Sen, Deputy Magistrate and Deputy Collector, Dacca, is allowed leave for six months, under article 369 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 23rd September 1889.

The 3rd February 1890.—Baboo Gossain Das Hazra, Sub-Deputy Collector, Barh, Patna, is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Moulvie Fazlar Rahman, Sub-Deputy Collector, Alipore, Julpigoree, is transferred to Patna, and is posted to the Barh sub-division of that district.

In modification of previous notifications, Mr. R. C. Sterndale is hereby appointed substantively *pro tempore* Cantonment Magistrate of Dum-Dum, and to have charge as Sub-divisional Officer of the villages outside Cantonment limits which constitute the Dum-Dum sub-division.

Mr. C. H. Vowell, C.S., reported his departure from India on furlough on the 19th January 1890.

The 4th February 1890.—Captain W. H. Chase, Northern Bengal Volunteer Rifle Corps, is allowed leave of absence for eight months, with effect from the 1st instant.

Mr. F. J. Monahan, Officiating Joint-Magistrate and Deputy Collector, Serajgunge, Pubna, is vested with the powers of a Collector under Act X of 1870 in that district.

POLICE.—*The 3rd February* 1890.—In modification of the order of the 28th January 1890, first class Inspector E. Robertson, of the Calcutta Police, is appointed to act for Mr. J. E. Millard, Superintendent of the Detective Department, but will remain in charge of the First Division, Town Police, during the absence of Mr. J. Costello, on leave, or until further orders.

Mr. J. E. Millard, Superintendent of the Detective Department, Calcutta Police, in charge of the Third Division, Town Police, is appointed to act for Mr. James Costello, Superintendent of the First Division, Town Police, during his absence on privilege leave. Mr. Millard will, however, continue to hold charge of the Third Division, Town Police.

The 4th February 1890.—Mr. W. H. Cornish, District Superintendent of Police, Maldah, is allowed leave for two days, under article 291 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 17th December last.

Mr. W. A. Gayer, Officiating Assistant Superintendent of Police, Moorshedabad, is transferred to Backergunge.

REGISTRATION.—*The 31st January* 1890.—Moulvi Gowhar Ally, Deputy Magistrate and Deputy Collector, Maldah, is appointed to be also Sudder Sub-Registrar of Maldah, with retrospective effect from the 22nd May last, *vice* Moulvi Zakir Hossein, transferred.

EDUCATION.—*The 4th February* 1890.—Baboo Madhu Sudan Das, Law Lecturer, Ravenshaw College, Cuttack, is allowed leave for six weeks, without allowances, with effect from the 24th ultimo.

Baboo Jogneswar Chandra is appointed to act as Law Lecturer, Ravenshaw College, Cuttack, during the absence, on leave, of Baboo Madhu Sudan Das, or until further orders.

The following notifications are republished from the *Assam Gazette* :—

No. 434*G.*—*The 23rd January* 1890.—Mr. E. Muspratt is appointed to act as Commandant of the Naga Hills Military Police Battalion during the absence, on medical leave, of Lieutenant D. C. F. Macintyre, with effect from the 1st May 1889.

No. 435*G.*—Mr. J. Kennedy, C.S., Deputy Commissioner of Sylhet, was employed on special duty at Shillong from the 1st to the 5th September 1889, both days inclusive.

This reduces the amount of privilege leave granted to Mr. Kennedy in General Department notification No. 289, dated the 12th July 1889, by five days.

No. 1.—*The 23rd January* 1890.—Baboo Nritya Gopal Chatterji, B.L., Extra Assistant Commissioner, made over the executive charge of the Cachar Treasury to Mr. H. Le Mesurier, C.S., on the 31st December 1889.

No. 2.—Mr. L. St. J. Brodrick, Assistant Superintendent of Police, made over the executive charge of the Naga Hills Treasury to Surgeon W. W. White, M.D., on the 31st December 1889.

No. 4.—Mr. R. R. Pope, C.S., reported his return to duty from furlough in the forenoon of the 7th January 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 4th February, 1890.—In consequence of the retirement of Mr. G. Field, Sub-Deputy Opium Agent, second grade, the following promotions are made, with effect from the 28th September, 1889 :—

Mr. H. F. Campbell, Sub-Deputy Opium Agent, third grade, to be a Sub-Deputy Opium Agent of the second grade.

Mr. H. J. Lloyd, Sub-Deputy Opium Agent, fourth grade, to be a Sub-Deputy Opium Agent of the third grade.

Mr. P. J. Luard, Sub-Deputy Opium Agent, fifth grade, to be a Sub-Deputy Opium Agent of the fourth grade.

Mr. J. Christian, Assistant Sub-Deputy Opium Agent, first grade, to be a Sub-Deputy Opium Agent of the fifth grade.

Mr. W. T. Ryves, Assistant Sub-Deputy Opium Agent, second grade, to be an Assistant Sub-Deputy Opium Agent of the first grade.

Mr. C. S. Delmerick, Assistant Sub-Deputy Opium Agent, third grade, *sub. pro tem.* in the second grade, to be confirmed in that grade.

Mr. G. W. Dick-Lauder, Assistant Sub-Deputy Opium Agent, third grade, to be an Assistant Sub-Deputy Opium Agent, second grade, *sub. pro tem.*

Mr. C. H. S. Burt, Assistant Sub-Deputy Opium Agent, Probationary grade, *sub. pro tem.* in the third grade of Assistant Sub-Deputy Opium Agents, to be confirmed in that grade.

Mr. O. O'Donnell, Assistant Sub-Deputy Opium Agent, probationary grade, to be an Assistant Sub-Deputy Opium Agent, third grade, *sub. pro tem.*

Mr. E. C. Godfrey, Assistant Sub-Deputy Opium Agent, probationary grade, *sub. pro tem.*, to be confirmed in that grade.

Mr. G. W. Oliphant, Officiating Assistant Sub-Deputy Opium Agent, to be an Assistant Sub-Deputy Opium Agent, probationary grade, *sub pro tem.*

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 4th February, 1890.—In consequence of the death, on the 2nd January, 1890, of Mr. W. Cracroft, Sub-Deputy Opium Agent, fourth grade, the following promotions are made in the Opium Department, to take effect from the 3rd idem :—

Mr. C. Paterson, Sub-Deputy Opium Agent, fifth grade, to be Sub-Deputy Opium Agent, fourth grade.

Mr. J. E. Hand, Assistant Sub-Deputy Opium Agent, first grade, to be Sub-Deputy Opium Agent, fifth grade.

Mr. T. E. D. Innes, Assistant Sub-Deputy Opium Agent, second grade, to be Assistant Sub-Deputy Opium Agent, first grade.

Mr. W. H. T. Howey, Assistant Sub-Deputy Opium Agent, second grade *sub. pro tem.*, to be confirmed in that grade.

Mr. R. W. Pyne, Assistant Sub-Deputy Opium Agent, third grade, to be Assistant Sub-Deputy Opium Agent, second grade, *sub. pro tem.*

Mr. C. J. C. Ricker, Assistant Sub-Deputy Opium Agent, third grade *sub. pro tem.*, to be confirmed in that grade.

Mr. E. A. Gennoe, Assistant Sub-Deputy Opium Agent, probationary grade, to be Assistant Sub-Deputy Opium Agent, third grade, *sub. pro tem.*

Mr. F. W. Harris, Assistant Sub-Deputy Opium Agent, probationary grade *sub. pro tem.*, to be confirmed in that grade.

Baboo Keshri Narain, Officiating Assistant Sub-Deputy Opium Agent, to be Assistant Sub-Deputy Opium Agent, probationary grade, *sub. pro tem.*

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 4th February 1890.—The following rules framed by the Board of Revenue under clause (*c*), section 9 of the Sea Customs Act VIII of 1878, to provide for the weighment of salt by licensed weighmen at the Port of Calcutta, having received the sanction of the Lieutenant-Governor, are published for general information :—

I. From the date of the publication of these rules, no person, other than a weighman licensed under them, shall be employed to weigh salt either on board importing vessels or at the Sulkea warehouses.

II. A weighman includes an assistant.

III. The duty of supplying licensed weighmen may be entrusted to contractors or sirdar weighmen, who will be appointed on the recommendation of the Superintendent of the Preventive Service and receive a license. Contractors and sirdars who have not been licensed by the Collector of Customs will not be recognised by Customs officers.

IV. Any person wishing to become a licensed weighman will be supplied, on application to the Collector of Customs, with a form which he will be required to fill up, and such application should ordinarily be supported by a recommendation from some person directly interested in the importation and weighment of salt. If he is considered suitable, a license will then be granted to the applicant.

V. A licensed weighman, who is guilty of refusal or neglect of duty, may be suspended or dismissed.

VI. Licensed weighmen will make their own arrangements with those persons who require their services, and in this respect Government will not exercise any control over them ; but they are strictly prohibited from receiving any reward or present from the buyers, or their representatives, under penalty of dismissal and of a criminal prosecution.

VII. When on duty a licensed weighman will be required to wear a brass badge, and will be bound to produce his license if asked to do so.

VIII. A complete list of licensed contractors, sirdar weighmen, and weighmen will be supplied to any person interested in the weighment of salt upon application.

Form of Contractor's License.

A. B. is hereby appointed a licensed contractor for the supply of licensed weighmen under the rules prescribed by the Board of Revenue.

Form of Application for Weighman's License.

I, , son of , resident of in the district of , at present residing at , desiring to obtain a license authorizing me to weigh salt on board ships as well as at the Sulkea warehouses, beg respectfully to submit this petition.

I undertake to perform my duties faithfully to Government, and to obey any lawful commands that I may receive.

Form of Weighman's License.

A. B. is hereby appointed a licensed weighman under the rules prescribed by the Board of Revenue.

Descriptive Roll.

NAME.	Father's name.	Residence.	Present residence.	By whom recommended.

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P.; CALCUTTA.

DECLARATION.

The 31st January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz. for the construction of the proposed central distillery at Khoolna, in the village of Tootpara, pergunnah Hogla, zillah Khoolna, it is hereby declared that for the above purpose a piece of land measuring, more or less, 8 beegahs 9 cottahs and 10 chittacks of standard measurement, bounded on the North by the house of Ram Charan Ghose; East by the Strand Road on the bank of the river Roopsa; South by the land of Ram Charan Ghose and others; and West by Kali Charan Boona's land, is required within the aforesaid village of Tootpara.

A plan of the required land may be inspected at the Collector's office.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 31st January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz. for a distillery in the village of Bankoora-Rampore, pergunnah Bishanpore, thana Bankoora, zillah Bankoora, it is hereby declared that for the above purpose a piece of land measuring, more or less, 2 beegahs and 4 gandas of standard measurement, bounded on the North by Dasu Bauri's house and a piece of waste land; East by Jagat Baishnabi's garden; South by waste *debattar* land of "Raghu Nath Jieu"; and West by the tank called "Duber Band," is required within the aforesaid village of Bankoora-Rampore.

A plan of the required land may be inspected at the Collector's office.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 162A.

The 30th January 1890.—The following gentlemen are appointed to be Honorary Magistrates of the Bench at Khoorda, in the district of Pooree, and are vested with the powers of a Magistrate of the third class:—

Chowdhury Aziz Mohamed. | Pandit Jogobandhu Mohapater.
Baboo Khrustna Mohan Patnaik.

The Lieutenant-Governor accepts the resignation tendered by Ray Bhagbut Mohanti Bahadur of his appointment as an Honorary Magistrate of the Bench at Khoorda, in the district of Pooree.

Baboo Kherod Chundra Roy is appointed to be an Honorary Magistrate of the Independent Bench at the head-quarters of the Madaripore sub-division of the district of Furreedpore, and is vested with the powers of a Magistrate of the third class.

The 31st January 1890.—Baboo Hemango Chandra Bose, Subordinate Judge, Hooghly, is allowed leave for six months, under article 369 of the Civil Service Regulations, with effect from the afternoon of the 14th December 1889.

Baboo Jodu Nath Das, Subordinate Judge of Patna, is allowed leave for one month and twelve days, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he availed himself of it.

The 1st February 1890.—Mr. Taheiruddin Ahmed, substantive *pro tempore* Munsif of Arrareah, in the district of Purneah, is appointed to be a substantive *pro tempore* Additional Munsif in the district of Dacca, to be ordinarily stationed at the Sudder station.

Baboo Nibarun Chandra Banerjee, Additional Munsif of Dacca, is appointed to be a Munsif in the district of Purneah, to be ordinarily stationed at Arrareah.

Baboo Sri Hari Lahiri, B.L., is appointed to act, until further orders, as a Munsif in the district of Purneah, to be ordinarily stationed at Arrareah, *vice* Baboo Nibarun Chandra Banerjee.

Baboo Ashutosh Chatterjee is appointed to be an Honorary Magistrate of the Kooshtea Bench, in the district of Nuddea, and is vested with the powers of a Magistrate of the third class.

The Lieutenant-Governor accepts the resignation tendered by Baboo Upendra Chundra Roy of his appointment as an Honorary Magistrate of the Narail Bench, in the district of Jessore.

Baboo Mohendro Nath Banerjee is appointed to be an Honorary Magistrate of the Municipal Bench at Kotrung, in the district of Hooghly, and is vested with the powers of a Magistrate of the third class.

Baboo Bungshidhur Sen is appointed to be an Honorary Magistrate of the Narail Bench, in the district of Jessore, and is vested with the powers of a Magistrate of the third class.

The 4th February 1890.—Baboo Rajendra Lal Ghosh, B.L., is appointed to act as a Munsif in the district of Gya, to be ordinarily stationed at the Sudder station of that district, during the absence, on leave, of Shah Latafut Hossein, or until further orders.

Baboo Bepin Behary Mookerjee, Deputy Magistrate and Deputy Collector, Bhagulpore, is vested with powers under sections 110, 133, 143, 144, 174, 186, 191 and 524 of the Code of Criminal Procedure.

Baboo Bepin Behary Bose is appointed to be an Honorary Magistrate of the Independent Bench at Jessore, and is vested with the powers of a Magistrate of the third class.

Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Moulvie Sarfraz Hossein Khan and Moulvie Mohamad Quaim, Honorary Magistrates of the Jhowgunge Bench, Patna, to take down evidence in criminal cases in the English language.

GRANT OF LEAVE TO MUNSIFS.—*The 31st January* 1890.—Shah Latafut Hossein, Munsif of Gya, is allowed leave for two months, under article 369 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The 1st February 1890.—Baboo Gobind Deb Mukerjee, Munsif of Sudharam, in the district of Noakholly, is allowed leave for six months, under articles 266 and 369 of the Civil Service Regulations, with effect from the 25th January 1890.

Baboo Hari Narain Roy, Munsif of Sibgunge, in the district of Rajshahye, is allowed leave for one year, under article 371 of the Civil Service Regulations, with effect from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st February 1890.—The following revised rule is substituted for Rule XV of the Rules made by the Lieutenant-Governor under the power vested in him by section 4 of Act III (B.C.) of 1879 (entitled "an Act to provide for the periodical inspection of Steam-boilers and Prime-movers attached thereto in the Town and Suburbs of Calcutta and in Howrah"), and since extended by notifications to places in the districts of Hooghly, Howrah, and the 24-Pergunnahs, within a radius of 30 miles from Calcutta, to the sub-divisions of Raneegunge, Giridhi, and Gobindpore, and the district of the Sonthal Pergunnahs :—

XV. The Inspector shall give one week's notice of every such intended thorough examination ; and if after that notice the boilers are not empty, cool, clean, and ready for inspection on the date named, the Inspector shall prohibit the boilers from working, and shall report the case to the Commissioners. Further, if any request be made to remove fittings or settings, and such be not complied with, the Inspector shall in like manner stop the working of the boilers.

Provided that the inspection of boilers in the Raneegunge, Giridhi, and Gobindpore sub-divisions, and in the district of the Sonthal Pergunnahs, shall be made during the months of November to May inclusive, and the Inspector shall give 14 days' notice of the day when he will make such inspection.

If any boiler needs inspection in the Raneegunge, Giridhi, and Gobindpore sub-divisions, and in the district of the Sonthal Pergunnahs, during the months of June to October inclusive, either as being a new boiler requiring a certificate, or as being a boiler which the owner for any other reason wishes to have inspected, it may, on the application of the owner, manager, or agent, be inspected during that period.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Second Publication.]

NOTIFICATION.

The 21st January 1890.—Under section 2 of Act II (B.C.) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming houses), the Lieutenant-Governor is pleased to authorize the extension, from the 1st February 1890, of the provisions of the said Act to the villages of Saidpore and Kuja Saidpore (commonly known as the town and bazar of Saidpore), within the jurisdiction of the police-station of Nilphamari and the district of Rungpore. The boundaries of the tract within which the said Act shall be in force are as follows:—

North—A straight line drawn from the Saidpore Rifle Range to Penduram Bairagi's house.

South—A straight line drawn from the east of Baboopara to the village road east of Nanku Havildar's para.

East—A straight line drawn from Penduram Bairagi's house to the east of Baboopara.

West—A straight line drawn from the village road east of Nanku Havildar's para to the Saidpore Rifle Range.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Second Publication.]

NOTIFICATION.

The 22nd January 1890.—It is hereby notified that the Lieutenant-Governor authorises the extension of the provisions of section 34 of Act V of 1861 to the town comprising the places known as Makundprosad, Jagarsing and Gurujang, in the district of Pooree, within the boundaries noted below, with effect from the 1st April 1890—

Bounded on the north by Tangiapara, Nuagan, Kumbharbast and Kunjiama; on the south by Sanpala, Khorda, and Jaganathpur; on the east by Bartola and Kholadwar; on the west by Sardhapur.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Third Publication.]

NOTIFICATION.

The 18th January 1890.—Under section 2 of Act II (B.C.) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming-houses), the Lieutenant-Governor authorizes the extension, from the 1st February 1890, of the provisions of sections 11 to 14 of the said Act to the town of Rampore Hât (including Brahamanigram, Kalisaura, and Khalasiparah), in the district of Beerbhoom.

2. For the purposes of the above Act, the boundaries of the place shall be as follows:—

North—East Indian Railway Rifle Butts.
South—Sanghatta khal.
East—Khair tank.
West—Village Suitalla.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

DECLARATION.

The 4th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for a police outpost in the village of Khaprail Bazar, pergunnah Midnapore, zillah Midnapore, it is hereby declared that for the above purpose a piece of land measuring, more or less, 7 cottahs and 8 chittaks of standard measurement, bounded on the east by the house of Issur Panday, on the north and west by public roads, and on the south by Ram Moyra and Baburam Garari's house, is required within the aforesaid village of Khaprail Bazar.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION.

The 4th February 1890.

No. 31.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for a chowkidar's shed on the Lathan Distributary at the 7th mile 30th chain, it is hereby declared that for the above purpose a piece of land measuring about 243 feet in length and 140 feet in width, and containing an area of 8 roods and 5 poles, more or less,

situate in mouzah Katarea, pergunnah Pero, bounded on the north by lands belonging to Ramdeyal Rai and Ramtahal Rai; on the east by lands belonging to Ramdeyal Rai; on the south by lands belonging to Loochal Churihor; and on the west by the Lathan Distributary, is required in the district of Shahabad.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 29th January 1890.

No. 27.—Mr. T. E. Owen, Executive Engineer, first grade, and Officiating Under-Secretary in the Railway Branch of this Department, is granted six months' leave on urgent private affairs, with effect from the 1st of March 1890, or such date as he may avail himself of it.

No. 28.—Mr. H. B. Taylor, Executive Engineer, temporary rank, employed on the Assam-Behar Section of the Eastern Bengal State Railway, is temporarily attached to the Public Works Secretariat on special duty.

CIVIL BUILDINGS.

The 31st January 1890.

No. 29.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the Post Office at Jajepur, in the village of Naharapore, pergunnah Jajepur, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 rood and 29 poles of standard measurement, bounded on the north and east by municipal roads, and on the west and south by the mehal land of Avimanu Punda, Judhisty Punda, Bhim Punda, Arjoon Punda, Nakul Punda, and Banchanidhi Punda, is required within the aforesaid village of Naharapore.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

COMMUNICATIONS.

The 31st January 1890.

No. 30.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of a permanent bungalow in the village of Bandgoan on the second section of the Ranchi and Chybassa road, pergunnah Porahat, zillah Chybassa, it is hereby declared that for the above purpose a piece of land measuring, more or less, 34 bighas 10 cottahs and 14 chittacks of standard measurement, bounded on the north, west, south, and east by lands of Baboo Jugmohan Singh, is required within the aforesaid village of Bandgoan.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

The 4th February 1890.

No. 32.—*Notification.*—The Lieutenant-Governor is pleased to direct the formation of a Public Works Division, to be called the Sikkim Division, and to have its head-quarters at Gantok.

The Sikkim Division will comprise all works in Sikkim.

Mr. J. C. White is appointed to be Executive Engineer of the Sikkim Division, in addition to his duties as Assistant Political Officer at Gantok.

MILITARY.

The 4th February 1890.

No. 33.—*Notification.*—The declarations, dated the 12th July 1887, made under section 6 of Act X of 1870 of the Government of India, which were published at page 632 of the *Calcutta Gazette* of the 13th idem, for the acquisition of lands for encamping grounds at Hilsa, Islampore and Khizirserai on the Futtooa-Gya road, are hereby cancelled.

RAILWAY.

The 4th February 1890.

No. 34.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz, for doubling the Kidderpore Dock line of the Eastern Bengal State Railway, Southern Section, at Ballygunge, in mouzah Punchannogram, pergunnah Dehee Punchannogram, zillah 24-Pergunnahs, it is hereby declared that for the above purpose a piece of land measuring, more or less, 5 bighas and 10 cottahs of standard measurement, bounded on the north by land belonging to Chunder Kanto Ghose; east by land belonging to Nibaron Ghose, Bhoirub Mundle, Chunder Kanto Ghose and others; south by a pucca house belonging to Nibaron Ghose; and west by land belonging to Eastern Bengal State Railway, is required within the aforesaid mouzah Punchannogram at Ballygunge.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

ESTABLISHMENT.

The 4th February 1890.

No. 35.—Mr. H. N. C. Cloete, Executive Engineer, has been granted by Her Majesty's Secretary of State for India an extension of three months' furlough.

No. 36.—Mr. T. H. Wickes, Superintending Engineer, is, on return from furlough, appointed to be Superintending Engineer of the Eastern Circle.

No. 37.—Mr. W. B. Gwyther, Executive Engineer, attached to the First Calcutta Division, is transferred to the Public Works Secretariat for employment on special duty.

No. 38.—Mr. W. H. Nightingale, Officiating Superintending Engineer, Eastern Circle, on being relieved by Mr. Wickes, will revert to his appointment as Inspector of Local Works in the Bhagulpore Division.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION No. 30Mne.

The 3rd February 1890.—In accordance with the provisions of section 36 (2) of Act X of 1889, the following abstract account of the receipts and charges of the Ports of Cuttack and Pooree for the year 1888-89, which has been received from the Collector of Cuttack, is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

Statement showing the Receipts and Charges of the Joint Port Fund of the Cuttack and Pooree Ports for the year 1888-89.

ITEMS.	Amount.	Total.	ITEMS.	Amount.	Total.
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
Port dues—vessels	3,916 10 9		Debit balance on 31st March 1888 ...	.....	23,768 9 0
Sale proceeds of a boat	25 0 0				
		3,941 10 9	Vessels and Boat Establishment—		
Sale proceeds of old stores	4 8 0		Establishment	2,330 10 6	
		4 8 0	Dockyard services and supplies ...	1,572 13 3	
			Stores	9 0 0	
			Contingencies	50 9 0	
					5,763 0 9
			General Management—		
			Salary of Port Officer	3,000 0 0	
			Ditto Establishment ...	772 3 1	
			Percentage charges	84 4 5	
			Contingencies	123 1 0	
			Service postage stamps	37 4 0	
			Travelling allowance of Port Officer and others	234 1 0	
					4,250 13 6
			Medical Establishment—		
			Establishment	457 5 0	
			Contingencies	174 12 6	
					632 1 6
			Light-house Establishment—		
			Establishment	312 0 0	
			Contingencies	25 11 3	
					337 11 3
			Pension to Mr. T. Geary, from 1st April 1888 to March 1889, at Rs 34-0-9 per month	408 9 0	
			Cost of repairing Pooree light-house ...	29 3 0	
					437 12 6
Total Receipts ...	.....	3,946 2 9			
Debit balance on 31st March 1889 ..	.....	29,243 13 3	Total Expenditure ...	.....	9,421 7 6
GRAND TOTAL ...	.....	33,190 0 0	GRAND TOTAL ...	.....	33,190 0 0

NOTIFICATION No. 33Mne.

The 4th February 1890.—Under the powers conferred upon him by section 64 of Act VI of 1884 (The Inland Steam-vessels Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to exempt inland steam-vessels commanded by licensed pilots from the provisions of section 28, sub-section (1), clause (*a*), and section 28, sub-section (2), clause (*a*) of the said Act.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

NOTIFICATION No. 34Mne.

The 4th February 1890.—Under the powers conferred upon him by section 64 of Act VI of 1884 (The Inland Steam-vessels Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to declare that persons holding certificates as serangs, granted by the Commissioners for making Improvements in the Port of Calcutta before the date of this notification, shall be allowed to take charge of inland steamers measuring not more than 200 tons gross for two years from this date, after the expiry of which period no one will be permitted to be in charge of any inland steam-vessel who has not in the meantime obtained a certificate of competency under the Act.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

[First Publicatoin]

NOTIFICATION No. 29Mne.

The 3rd February 1890.—The following Notice to Mariners is published for general information.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 16).

BAY OF BENGAL.

ORISSA COAST.

Date of exhibition of new light from Chandipore flagstaff.

IN continuation of Notice to Mariners, No. 49, dated the 31st May 1889, issued by this Office, it is intended to exhibit the new light on the Chandipore flagstaff from the 1st May 1890.

The height of the new light above high-water mark will be 62 feet.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 30th January* 1890.

[Second Publication.]

NOTIFICATION No. 12Mne.

The 24th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 9).

AFRICA—NORTH-EAST SHORE.

GULF OF ADEN.

Permanent Light-ship off Ras Marbut, Aden Harbour.

Information has been received from the Political Resident at Aden that on the 15th February the temporary Light-vessel moored off Ras Marbut, Aden, Harbour, will be replaced by the permanent Light-ship. The vessel is moored in 18 feet at low water, and shows at an elevation of 39 feet above the sea a flashing White Light visible every minute. The vessel is painted Red, but has no Red Ball at mast-head and exhibits no Red Flag during the day as stated at page 90, Chapter IV, 3rd Edition of the Gulf of Aden Pilot.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 22nd January* 1890.

[Second Publication.]

NOTIFICATION No. 14Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 10).

AFRICA—EAST COAST.

RED SEA—WESTERN SHORE.

A light placed on the island of Difnein, Musawwa Channel.

INFORMATION has been received from the Consul-General for Italy, through the Director of Indian Marine, that a light visible at 6 miles distance, to indicate the North entry of the Musawwa Channel, has been placed on the N.-E. end of the Island of Difnein. The light is in latitude 16° 37′ 8″ N. and longitude 39° 18′ 15″ E. Arc of illumination 195 degrees, leaving a dark sector between the 65° and 250°.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Second Publication.]

NOTIFICATION No. 15Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 11).

AUSTRALIA—EAST COAST.

ULLADULLA HARBOUR.

Fixed light on Warden head, and discontinuance of pier light.

THE British Admiralty has given notice (No. 456 of 1889) that on 1st December 1889 a light would be exhibited from a light-house recently erected on Warden head, south side of entrance to Ulladulla harbour.

The light is a *fixed* White light, visible in clear weather from a distance of about 12 miles.

Position: Approximate lat. 35° 22¼′ S.; long. 150° 31¼′ E.

Also, that on the same date, the light (fixed *green*) previously shown from the pier head, Ulladulla harbour, would be discontinued.

By direction of the Government of Bengal,
EATON W PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Second Publication.]

NOTIFICATION No. 16Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 12).

AFRICA—EAST COAST.

ZANZIBAR ISLAND.

Fixed light on Mwana Mwana Island.

INFORMATION has been received from the British Admiralty (No. 452 of 1889) that a light is now exhibited from a light-house (construction commenced in 1881) on the north extreme of Mwana Mwana island, north-west coast of Zanzibar island.

The light is a *fixed* white light.

Position: Lat. 5° 45′ 10″ S.; long. 39° 13′ 10″ E.

NOTE.—The regular exhibition of this light should not be relied on.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Second Publication.]

NOTIFICATION No. 17Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 13).

INDIA—SOUTH.

CEYLON—EAST COAST.

A "Torpedo Buoy" placed at the entrance to Trincomalee Harbour.

THE Colonial Government of Ceylon has given notice that on and after 25th December 1889 until 28th February 1890, a Red Buoy, with a red flag and the words "Torpedo Buoy" painted on it, will be placed in the entrance to Trincomalee Harbour between Ostenburg Point and Little Sober Island, and 260 yards from the former.

The water in the triangle formed by this Red Buoy, the E. Point of Small Sober Island and Clappenburg Point, will be obstructed by mines.

All vessels should pass between the Buoy and Ostenburg Point.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Second Publication.]

NOTIFICATION No. 19Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 14).

BAY OF BENGAL.

BURMA COAST.

Date of alteration of Savage Island light—Port of Akyab.

WITH reference to Notice to Mariners, No. 50, dated the 31st May 1889, issued by this office, a telegraphic communication has been received from the Port Officer, Akyab, that the transfer of Savage island light, at the entrance of the Port of Akyab, will commence from the 27th instant.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA. *the 27th January* 1890.

[Second Publication.]

NOTIFICATION No. 20Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 15).

BAY OF BENGAL.

BURMA COAST.

Position of a water-logged Native vessel and pieces of wreckage.

A TELEGRAPHIC communication has been received from the Port Officer, Rangoon, that the Master of the steam-ship *Euphrates* reports having passed on the 23rd instant a water-logged native vessel in latitude 15° 23′ north, longitude 94° 59′ east; also pieces of wreckage when 8 miles off Krishna light-vessel. Shipmasters are cautioned accordingly.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 27th January* 1890.

EASTERN BENGAL STATE RAILWAY SYSTEM.

NOTIFICATION.

No. 1.—Mr. F. D. Kiernander, Assistant Traffic Superintendent, is granted two months' privilege leave, under Articles 277 to 291 of the Civil Service Regulations, 1st edition, with effect from 20th January 1890, or such subsequent date as he may avail himself of the same.

G. F. O. BOUGHEY, *Lieut.-Col., Manager.*

SEALDAH, CALCUTTA, *the 29th January* 1890.

JAIL DEPARTMENT.

No. 1006.—*The 30th January* 1890.—Mr. H. M. Owen made over charge of the Midnapore Central Jail to Mr. C. H. C. Sevenoaks on the forenoon of the 26th January 1890.

M. S. EMERSON,
For Offg. Inspector-General of Jails, Bengal.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 993, *dated* 31*st January* 1890.—In Bengal Medical Department Notification No. 10739, dated 21st November 1889, published in the *Calcutta Gazette*, dated 27th November 1889, at page 974, against the name of Civil Hospital Assistant Soshi Kumar Sen's *for* "Sub-division and Dispensary, Fenny, Backergunge," *read* "Sub division and Dispensary, Fenny, Noakholly."

J. M. COATES, M.D.,
For Inspector-General of Civil Hospitals, Bengal.

Sheriff's Office, the 22nd January 1890.

NOTICE is hereby given that the First Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the seventeenth day of February next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ২২শে জানুয়ারি।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার ফোর্ট-উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তা জন্য আগামী সন ১৮৯০ সালের ১৭ই ফেব্রুয়ারি সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিক তার হাই কোর্টের আপল আদালত ঘরে সন ১৮৯০ সালের প্রথম ক্রিমিনেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন করেদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচঃ বিঃ এইচঃ টারনার, শরিফ।

TREASURY NOTICE.

UNCOVENANTED DEPUTY COLLECTOR BABOO MONMATHA KUMAR BOSE has been placed in charge of the Beerbhoom Treasury, and is authorised to draw bills on other treasuries.

N. S. ALEXANDER, *Commissioner.*
COMMR.'s OFFICE, BURDWAN DIVN., *the* 30*th January* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 28*th January* 1890.—Babu Nityananda De, Sub-Inspector of Schools under the District Board of Midnapore (class VI), has been granted by the Board leave of absence for four months, under Article 369 of the Civil Service Regulations, with effect from the 1st December 1889.

The 30*th January* 1890.—Babu Braja Syam Mazumdar, Departmental Sub-Inspector of Schools, 24-Pergunnahs (class VI), having returned to duty on the forenoon of the 1st January 1890, the unexpired portion of the leave granted to him under the orders of the 8th January 1890 is cancelled.

Babu Dwarka Nath Bose, B. A., Second Master of the Furreedpore Zillah School (class VI), is allowed leave of absence for one month and ten days, under Article 306 (*b*) of the Civil Service Regulations, with effect from the 22nd December 1889.

Babu Srinath Das, Third Master of the Furreedpore Zillah School (class VII), is appointed to act as Second Master of the same institution, and in class VI, *vice* Babu Dwarka Nath Bose, B A., on leave.

Babu Narendra Deb Ray, Fourth Master of the Furreedpore Zillah School, is appointed to act as Third Master of the same institution, and in class VII, *vice* Babu Srinath Das.

Maulavi Syed Reazut Hussein, Fifth Master of the Mozufferpore Zillah School (class VI), is appointed temporarily to be Third Master of the same institution, *vice* Babu Hari Nath Ray, retired.

Babu Uma Charan Ghosh, Second Master of the Comillah Zillah School (class VI), is declared to have been absent on leave from the 28th October to the 15th November 1889, both days inclusive, viz., twelve days under Article 369 and seven days under Article 372 of the Civil Service Regulations.

Babu Tripura Charan Banerjea, Third Master of the Comillah Zillah School, is declared to have acted as Second Master of that institution, and in class VI, during the absence, on leave, of Babu Uma Charan Ghosh.

A. CROFT,
Director of Public Instruction.

NOTIFICATION OF THE BOARD OF REVENUE.

No. 113B.

NOTICE is hereby given that the Third Sale of Opium, the Provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Monday the 3rd March 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

			Chests.
Opium manufactured	at the Patna Factory	... ...	2,250
Ditto	at the Ghazeepore Factory	... ...	2,500
		Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. The may be ascertained by reference to the Notification issued onthe 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Boar of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th March 1890, respectively, that is to say no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the8thMarch 1890 and no Bank of Bengal Receipts in full payment of lots will be accepted afte 3-30 P.M. of Tuesday, the 18th March 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale in the present year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests
On or about Wednesday, 2nd April	1890.	..	2,250	2,500	4 750
On or about Thursday, 1st May	,,	...	2,250	2.500	4 750
On or about Monday, 2nd June	,,	...	2 250	2,500	4,750
On or about Wednesday, 2nd July	,,	..	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2.250	2,500	4,750
On or about Monday, 1st September	,,	..	2.250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
Total		..	20,250	22,500	42,750

By order of the Board of Revenue, L. P.,
K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Calcutta, the 28th January* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that at the election held on the 21st August 1889, Baboo Raghubans Sahai was elected a Commissioner in Ward No. III of the Chupra Municipality, in place of Baboo Ganga Sahai, deceased.

J. BOXWELL, *Offg. Commissioner.*

PATNA COMMR.'s OFFICE, BANKIPORE, *the 30th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that an election will be held, under section 27 of Act III (B.C.) of 1884, on 10th of March 1890, in Ward No. II (Kaporiapottee), in the Nattore Municipality, in the district of Rajshahye, for the purpose of electing a Commissioner in the place of Baboo Sarbananda Saha, deceased.

E. E. LOWIS, *Commr., Rajshahye Division.*

The 28th January 1890.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 15th instant in Ward No. IV of the Baranagore Municipality, in the district of the 24-Pergunnahs, Baboo Hara Kumar Ghosal has been duly elected a Commissioner for the Ward in the place of Baboo Promatha Nath Ghosal, deceased.

A. BHATTACHARJEE, *Personal Assistant in charge.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 28th January* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27, Act III (B.C.) of 1884, on Monday, the 6th January 1890, Baboo Debendra Nath Ganguli has been elected a Commissioner for Ward No. III of the Dainhat Municipality, in the district of Burdwan, *vice* Baboo Ram Jadu Ghuttuck, resigned.

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 24th January* 1890.

ERRATUM.

IN the notification published at page 99, Part I of the *Calcutta Gazette* of the 29th January 1890, regarding the re-distribution of the members for election in the Kandi and Burwan thanas of the Kandi Local Board, in the district of Moorshedabad—*Read* "29th November 1887" *for* "29th March 1887."

A. BHATTACHARJEE, *Personal Assistant, for Commissioner.*

CALCUTTA, *the 3rd February* 1890.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 5, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[Reprinted from the "Gazette of India."]

The following order, issued by the Government of India in the Home Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION—ESTABLISHMENTS.

Calcutta, the 30th January 1890.

No. 57.—In Home Department Notification No. 22, dated the 16th instant, permitting Mr. N. S. Alexander to resign Her Majesty's Bengal Civil Service, *for* "15th March 1890" *read* "6th March 1890."

A. P. MACDONNELL,
Secretary to the Govt. of India.

The following orders, issued by the Government of India in the Department of Finance and Commerce, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS.

LEAVE AND APPOINTMENTS.

The 30th January 1890.

No. 489.—Mr. J. C. E. Branson, Deputy Accountant-General, Bombay, is granted furlough for eighteen months, under article 340, Civil Service Regulations, from such date in March 1890 as he may avail himself of it.

The 31st January 1890.

No. 544.

ORDER—By the Government of India, Department of Finance and Commerce.

Read the following:—

INDIA OFFICE;
London, 9th January 1890.

Financial.

No. 4.

To His Excellency the Most Honourable the Governor-General of India in Council.

MY LORD MARQUIS,—I have to inform you that the rate of exchange for the adjustment of financial transactions between the British and Indian Governments for the year 1890-91 has been fixed, with the concurrence of the Lords Commissioners of Her Majesty's Treasury, at one shilling and five pence (1*s.* 5*d.*) the rupee; and I request that you will give

the necessary instructions for the due observance of this rate in respect to all transactions to which it is applicable.

I have, &c.,
(Signed) CROSS.

Ordered that copies of this Despatch be forwarded to the Military and Public Works Departments and to the Comptroller and Auditor-General for information.

Ordered also that this Despatch be published in the *Gazette of India* for general information.

E. J. SINKINSON,
Secretary to the Government of India.

The following orders, issued by the Government of India in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 31st January 1890.

APPOINTMENTS.

MEDICAL DEPARTMENT.

No. 96.—Brigade-Surgeon H. Potter, M.D., Indian Medical Service, Bengal Establishment, to be Medical Store-keeper, Mian Mir. Dated 14th January 1890.

FURLOUGH AND LEAVE.

No. 106.—The undermentioned officers have been granted extensions of furlough or leave by the Secretary of State for India :—

* * * * *

Surgeon-Major R. G. Mathew (m. c.), for six months.

LONDON GAZETTE.

No. 108.—The following extracts are published for general information :—

Supplement to the "London Gazette," dated the 1st January 1890, *Page* 1.

India Office, January 1, 1890.

The Queen has been graciously pleased to make the following promotion in, and appointments to, the Most Eminent Order of the Indian Empire :—

* * * * *

To be Companions.

* * * * *

Brigade-Surgeon George King, M.B., Bengal Medical Service, Superintendent of the Royal Botanical Gardens, Calcutta.

VOLUNTEER CORPS.

APPOINTMENTS.

No. 115.—*Calcutta Light Horse*—

Troop Sergeant-Major George Charles Hodgson to be Second Lieutenant.

No. 116.—*Calcutta Volunteer Rifle Corps*—

Messrs. Alfred Burton Truefitt and Walter Gasper Gregory to be Second Lieutenants, to complete the establishment.

PROMOTIONS.

No. 121.—*Calcutta Volunteer Rifle Corps*—

Lieutenant Martin Zachariah Martin to be Captain, and Second Lieutenants James Thomas Meade, John James FitzWilliam, Marcus Tullius Cox and Henry Albert Stewart to be Lieutenants, to complete the establishment.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 5, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 25th January 1890.—The following list showing the number of members of Local Boards to be elected for each of the thanas in the district of Mymensingh is published for general information, under Rule 19 of the Rules made under clause (*a*), section 138 of the Bengal Local Self-Government Act, 1885:—

District.	Names of Local Boards.	Names of Thanas.	Number of members to be elected for the thana.
Mymensingh	Sudder or Mymensingh.	Mymensingh or Nasirabad ...	2
		Ishvargunge	2
		Fulpur	2
		Guffergong	2
		Phulbariah	2
	Tangail ...	Tangail	4
		Gopalpur	3
		Kalihati	1
	Jamalpur ...	Jamalpur	2
		Sherepur	1
		Dewangunge	2
		Nalitabari	1
	Kishoregunge ...	Kishoregunge	3
		Nikly	3
		Bazitpur	4
	Netrokona ...	Netrokona	3
		Durgapur	2
		Kenduah	3

This notification cancels the notification, dated the 1st February 1887, published at page 22, Part IB. of the *Calcutta Gazette* of the 2nd idem.

H. J. S Cotton,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th January 1890.—The following list showing (*a*) the number of members fixed by the Lieutenant-Governor under sections 7 and 8, respectively, of the Bengal Local Self-Government Act, 1885, for the District and the Local Boards established in the district of Mymensigh, and (*b*) the number of members of the District Board to be elected by each of the Local Boards in the district, is published for general information :—

District Board of	Number of members fixed for the District Board.	Local Board of	Number of members fixed for the Local Board.	Number of members of District Board to be elected by the Local Board.
Mymensingh ...	24	Mymensingh ...	15	3
		Jamalpur ...	9	2
		Tangail ...	12	3
		Kishoregunge ...	15	2
		Netrokona ...	12	2

This notification cancels the notification, dated the 1st February 1887, published at page 22, Part IB. of the *Calcutta Gazette* of the 2nd idem.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 29th January 1890.—It is hereby notified that, under section 11, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint the following gentlemen to be members of the several Local Boards in the district of Moorshedabad :—

Local Boards.	Names of members.
Suddar ...	Baboo Kalidas Mukerji. „ Gobinda Jiban Hazra. „ Charu Kristo Chowdhury. „ Shama Churn Bose. „ Pulin Chundra Sanyal.
Lalbagh ...	Salaman Kudr Syed Wahed Ali. Mr. G. Rose. Munshi Rezaulla.
Kandi ...	Baboo Nilmadhub Rai. „ Surendra Nath Rai Chowdhuri. Munshi Keramutulla Chowdhuri. Baboo Kristonath Rai Chowdhuri.
Jungipore ...	Baboo Kristoballav Rai. Mr. W. R. Rice. Baboo Harilall Dass. Mr. C. B. Walton.

2. The Lieutenant-Governor is pleased to appoint the following gentlemen, under section 10 of the Act, to be members of the Local Boards mentioned against their names :—

Local Boards.	Names of members.
Sudder ...	Mr. W. F. Macdonnell. Baboo Deviprosad Tewari. „ Panchuram Mandal. Mr. E. B. Hills. Sabkutulla Hazi.
Lalbagh ...	Baboo Moheshnarain Roy. „ Amrita Lal Kar. „ Baikantonath Adhicari. Bhagwan Chundra Chatterjee.
Kandi ...	Baboo Bistu Chandra Ganguli. Moulvi Razel Khair *alias* Raja Mean.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 29th January 1890.—Whereas a notification dated the 27th September 1889, declaring the intention of the Lieutenant-Governor to extend the provisions of Act IV (B.C.) of 1865 (an Act for the prohibition of the practice of inoculation) to the whole of the district of Chumparun was published at page 217, Part IB. of the *Calcutta Gazette* of the 2nd October 1889, and whereas no valid objection has been raised within one month from the date of the publication of the notification within the district, it is hereby notified that, in the exercise of the powers vested in the Local Government under section 3 of the Act, the Lieutenant-Governor declares that the provisions of the Act be extended to the said district.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Dr. E. Bovill, Civil Surgeon of Chumparun, to be a Commissioner of the Motihari Municipality in that district, *vice* Dr. R. D. Murray, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Sudder Local Board, in the district of Bhagulpore, under section 29 of Act III (B.C.) of 1885, of Baboo Kanai Lall Singh to be their Chairman, *vice* Mr. C. P. Caspersz, C.S., transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st February 1890.—It is hereby notified that the Lieutenant-Governor approves the election, under section 27 of Act III (B C.) of 1884, by the Commissioners of the Naraingunge Municipality, in the district of Dacca, of Mr. W. Rattray to be their Chairman, *vice* Mr. H. F. Wilson, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st February 1890.—It is hereby notified that the Lieutenant-Governor approves the election, under section 27, Act III (B.C) of 1884, by the Commissioners of the Manicktollah Municipality, in the district of the 24-Pergunnahs, of Kumar Gopendra Krishna Deb Bahadur, C.S., to be their Chairman, *vice* Mr. Kedar Nath Roy, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 3rd February 1890.—Whereas a notification, dated the 18th October 1889, declaring the intention of the Lieutenant-Governor to sanction the imposition, under section 85 (*b*), Act III (B.C.) of 1884, by the Commissioners of the South Suburban Municipality, in the district of the 24-Pergunnahs, of a rate on the annual value of all holdings situated within the Municipality, in lieu of the tax upon persons under clause (*a*) of the said section now imposed, was published at page 226, Part IB of the *Calcutta Gazette* of the 23rd idem, and whereas no objection has been raised to the proposed measure, it is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 85 of the said Act, and in accordance with the recommendation of the Commissioners of the South Suburban Municipality made at a meeting, the Lieutenant-Governor sanctions the imposition by the Municipal Commissioners of the said rate within the limits of the said Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 3rd February 1890.—It is hereby notified for general information that the Lieutenant-Governor intends, in the exercise of the power vested in the Local Government by section 221 of Act III (B.C.) of 1884, and in accordance with the recommendation of the Commissioners of the North Dum-Dum Municipality, in the district of the 24-Pergunnahs, made at a meeting, to extend the provisions of Part IX of the said Act to the villages of Kadihatti and Nimta in Wards I and II respectively of the above Municipality, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal

NOTIFICATION.

The 3rd February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. J. Windsor, C.S., to be the Chairman of the Bettiah Municipality, in the district of Chumparun, *vice* Mr. H. Luson, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 3rd February 1890.—It is hereby notified for general information that in accordance with the recommendation of the Commissioners of the Garwah Municipality in the district of Lohardugga, made at a meeting, and in the exercise of the power conferred on him by section 9 of Act III (B.C.) of 1884, the Lieutenant-Governor intends to revise the southern and eastern boundaries of the said Municipality, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the Municipality. The revised southern and eastern boundaries are as follows:—

On the South.—From Jhanukia Ahar to the northern boundary land-mark of pucca terrace of mouzah Tenar on the right bank of the river Danroo, and thence along the right bank of the same river to the point where it meets and is crossed by the Gurwa-Peska village road.

On the East.—The Hariyara Sote from the trijunction of villages Sone Purwa, Bhoratia, and Chetna to the junction of the Hariyara Sote with the Danroo river, and thence straight to the point of Jhanukia Ahar, where it meets the southern boundary.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

ERRATUM.

The 4th February 1890.—In the notification dated 7th January 1890, containing the names of the elected and appointed members of Local Boards in the Bankoora district, published at pages 6 and 7 of Part IB of the *Calcutta Gazette* of the 8th idem, *for* "Baboo Soron Chandra Pal" *read* Baboo "Poran Chundra Pal."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 30th January 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Dacca Municipality for a public purpose, viz. for the extension of the Jubilee Street in Uari, in the town of Dacca, pergunnah Jahangirnagar, zillah Dacca, it is hereby declared that for the above purpose a piece of land, measuring more or less, 3 cottahs of standard measurement, is required. The land is bounded on the North by Uari Khal; on the East by Jagabandhu Karmakar's house; on the South by Bhojohari Shaha's Street; and on the West by Dwarika Nath Chakravarti's land.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 5, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Annual assessment.	Upset price.	Boundaries.	Remarks.
				B. K. CH	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahalispara in Bartoil.	Mohamedshahye.	31 7 14	13 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Banesh Chandra Sarkar of Belgachi and dwelling-house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi .	Aujongachi	Taragoonah	304 1 10	93 0 0	3,036 11 0	West of the dwelling-houses of Chuni Sheah and Nobin Mandal Ghose and others, ryots of the zemindars of Chitna; north of the nij-jote lands of the aforesaid zemindars; east of the confines of Khairpur; south of the nij-jote lands of the aforesaid zemindars.	Mourashi jote of Banesh Chandra Sarkar of Belgachi.
3	Dak Adda ...	Kulberia ...	Plassey ...	1 4 8	2 12 0	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Punchanan Rai; west of jote lands of Bani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. Bose, for Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Town Khas Mehal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 3rd day of March 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Khas Tehsil Office, Town Circle.

Serial No.	No. of tenures in register No. I.	Names of tenures and their situation.	Annual rental.		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cess.	Rent.	Cess.	Total.	
		Thana town mouzah Bakalya, mehal Noabad.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	887	20134/559 Taluq Manindra Chandra Ghose and others.	3,373 6 0	226 9 0	843 0 0	56 11 0	899 11 0	The entire taluqs will be sold.
		Mouzah ditto, thana ditto.						
2	895A	20134/559(3/5) Taluq Khetra Moni Dasi and others.	1,135 11 9	44 6 0	284 0 0	11 1 0	295 1 0	
		Thana Patiakhar, mouzah Jouskhala, mehal Noabad.						
3	4818	23678/588 Taluq Obedar Rahaman Khan	2,344 0	102 9 0	693 0 0	5 5 9	698 5 9	

Chittagong, the 14th January 1890. C. H. ALLEN, for Offg. Collector.

Statement of the Affairs of the Bank of Bengal for the week ending 28th January 1890.

LIABILITIES.

		Rs.	A.	P.
Capital paid up		2,00,00,000	0	0
Reserve Fund		58,00,000	0	0
Public Deposits at Head Office	Rs 1,01,07,670 3 3	1,89,04,174	12	4
Ditto ditto at Branches	,, 87,96,504 9 1			
Other Deposits at Head Office and Branches		3,11,73,418	13	9
Bank Post Bills, &c.		4 85,932	4	6
Sundries		8 55 813	2	0
Rupees ...		7,72,19,339	0	7

ASSETS.

		Rs.	A.	P.
Government Securities		16,53,682	8	0
Other authorized Investments		76,58,046	0	0
Loans on Government and other authorized Securities		1,69,79,904	13	7
Accounts of credit on ditto ditto		1 01,06,099	4	3
Bills discounted and purchased		2,01,24,519	8	5
Balances with other Banks		10,29,649	13	5
Bullion		3,16,594	8	1
Dead Stock		12,28,095	13	2
Stamps		13,307	11	0
Sundries		3,49,020	4	10
		5,94,59,820	4	9
Cash and Currency Notes at Head Office	Rs. 76,32,557 7 7	1,77,59,518	11	10
Cash and Currency Notes at Branches	,, 1,01,26,961 4 3			
Rupees ...		7,72,19,339	0	7

BANK OF BENGAL,
Calcutta, 30th January 1890

R. L. BIRD, Chief Acctt
Rate for Demand Loans 9 per cent.
Percentage 32 6.

By order of the Directors,
W. D. CRUICKSHANK,
Secy and Treasurer.

(3495—1)

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 15	25 Cases, D & Co. in a diamond	Order ...	S S. "Khedive."
,, 15	10 Cases, D in a diamond	Ditto ...	Ditto.
,, 15	3 Packages, A S P	Ditto ...	Ditto.
,, 15	1 Case, Major Alexander	Addressed ...	Ditto.
,, 15	18 Cases, D. W. Butchart, Esq., care of W. Magor, Esq.	Ditto ...	Ditto.
,, 15	2 Cases, A A by S O B Co., Colombo	Order ...	Ditto.
,, 15	1 Case, B & Co. in a diamond, U H & C outside ...	Ditto ...	Ditto.
,, 15	1 Case, 4621 in a diamond, B B & Co. below ..	Ditto ...	Ditto.
,, 15	1 Case, Co-operative Pharmacy	Ditto ...	Ditto.
,, 15	3 Packages, 1373 in a diamond	Ditto ...	Ditto.
,, 15	1 Case, G & C	Ditto ...	Ditto.
,, 15	1 Case, G. Officer, Mess Brigade	Addressed ...	Ditto.
,, 15	1 Drum, I A by S in a diamond	Order ...	Ditto.
,, 15	1 Case, J C in a diamond, L S & Co. outside ...	Ditto ...	Ditto.
,, 15	1 Case, J K G & Co. in a block, B S & Co. outside	Ditto ..	Ditto.
,, 15	1 Drum, Joyhing	Ditto ...	Ditto.
,, 15	3 Cases, L O C K E	Ditto ...	Ditto.
,, 15	1 Case, M M by 77 in a diamond	Ditto ...	Ditto.
,, 15	1 Case, H. J. Momisey, Esq.	Addressed ...	Ditto.
,, 15	1 Case, N B & M Y in a block	Order ...	Ditto.
,, 15	20 Cases, N G	Ditto .	Ditto.
,, 21	10 Cases, 239 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 21	1 Case, Major J. O. F. Nutt	Addressed ...	Ditto.
,, 21	15 Cases, 27th P L in a diamond	Order ...	Ditto.
,, 21	2 Packages, 1 by R C D in a triangle	Ditto ...	Ditto.
,, 21	1 Case, R B N by 244 in a diamond, J below ...	Ditto ...	Ditto.
,, 21	2 Cases, R W or W R in a diamond	Ditto ...	Ditto.
,, 21	1 Package, S K D in a diamond	Ditto ...	Ditto.
,, 21	2 Packages, 2000 in a triangle, S D & Co. below ...	Ditto ...	Ditto.
,, 21	2 Packages, S H M J in a diamond, U H & Co. outside.	Ditto ...	Ditto.
,, 21	2 Packages, 2044 in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 21	3 Packages, T D P & Co. in a diamond, G A & Co. outside.	Ditto ...	Ditto.
,, 21	7 Packages, 273 in a diamond, W T H B below ...	Ditto ...	Ditto.
,, 21	2 Packages, 908 in a diamond, W N & Co. outside	Ditto ...	Ditto.
,, 21	1 Package, W L	Ditto ..	Ditto.
,, 21	1 Parcel, the Secretary, Christian Knowledge Society.	Addressed ...	Ditto.
,, 21	1 Parcel, Revd. J. W. Thomas	Ditto ...	Ditto.
,, 21	1 Parcel, H. W. Pickford, Esq.	Ditto ...	Ditto.
,, 21	1 Parcel, India Life of Stephen, Baptist Mission House.	Ditto ...	Ditto.
,, 21	1 Case, W. F. Burrows, Esq.	Ditto ...	Ditto.
,, 16	5 Cases, D & Co. in a diamond	Ditto ...	S S. "Dorunda."
,, 16	15 Cases, D in a diamond	Ditto ...	Ditto.
,, 16	25 Cases, J K G	Ditto ...	Ditto.
,, 16	1 Drum, K & Co. or no mark	Order ...	Ditto.
,, 16	4 Cases, B L D & Co	Ditto ...	Ditto.
,, 16	7 Cases, L O C K E	Ditto ...	Ditto.
,, 16	1 Case, M in a diamond, B M & Co. outside ...	Ditto ...	Ditto.
,, 16	1 Case, M A in a diamond	Ditto ...	Ditto.
,, 16	5 Cases, N P D	Ditto ...	Ditto.
,, 16	1 Case, R M by 38 in a diamond	Ditto ...	Ditto.
,, 16	2 Cases, S D by 257 in a diamond, J below ...	Ditto ...	Ditto.
,, 16	1 Cask, B C	Ditto ...	Ditto.
,, 16	10 Cases, 408 in a diamond, C B below	Ditto ...	Ditto.
,, 16	1 Case, diamond or no mark	Ditto ...	Ditto.
,, 16	1 Case, 294 in a diamond	Ditto ...	Ditto.
,, 16	1 Case, H C G & Co. in a diamond, S & S C below...	Ditto ...	Ditto.
,, 16	1 Case, H J B by 252 in a diamond, J below ..	Ditto ...	Ditto.
,, 16	50 Cases, I G by 71 in a diamond, M B L T outside	Ditto ...	Ditto.
,, 16	12 Packages, no mark	Ditto ...	Ditto.
,, 16	3 Packages, Nahartati in a block	Ditto ...	Ditto.
,, 16	1 Case, P C B in a diamond	Ditto ...	Ditto.
,, 16	1 Cask, S S by 294 in a block	Ditto ...	Ditto.
,, 16	2 Bales, diamond T top	Ditto ..	Ditto.
,, 16	1 Case, W C D in a triangle, C & B below ...	Ditto ...	Ditto.

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 24	2 Cases, 560 in a diamond, W below	Order ...	S. S "Dorunda."
,, 24	1 Parcel, Mrs. Ashing Thomson, care of Agent, Planters' Stores	Addressed ...	Ditto.
,, 24	1 Parcel, M in a diamond, B M & Co. outside ..	O der ...	Ditto.
,, 24	1 Case, T S M	Ditto ...	Ditto.
,, 24	1 Keg, X in a circle	Ditto ...	Ditto.
,, 24	1 Keg, no mark Upper Assam	Ditto ...	Ditto.
,, 24	1 Drum, R & Co., Madras below	Ditto ...	Ditto.
,, 24	2 Drums, O & Co. in a diamond, Madras below ...	Ditto ...	Ditto.
,, 24	1 Iron axle, H C M by C in a diamond, O S top ..	Ditto ...	Ditto.
,, 24	1289 Iron plates, A & B	Ditto ...	Ditto.
,, 24	8 Bars angle iron, S A K in a diamond or no mark	Ditto ...	Ditto.
,, 24	9 Bars T-iron, S or no mark	Ditto ...	Ditto.
,, 24	94 Iron plates, B	Ditto ...	Ditto.
,, 17	2 Cases, A S W & Co. by A	Ditto ...	S. S. "Pallas."
,, 17	2 Cases, 184 in a diamond, A B & Co. outside ..	Ditto ...	Ditto.
,, 17	3 Cases, F E R E in a diamond	Ditto ...	Ditto.
,, 17	1 Case, Messrs. Hoare, Miller & Co.	Addressed ...	Ditto.
,, 17	3 Bars flat iron, D X or no mark	Order ...	Ditto.
,, 17	11 Earthen pipes, J B	Ditto ...	Ditto.
,, 17	5 Cases, K V in a diamond, Cawnpore below ...	Ditto ...	Ditto.
,, 17	3 Cases, L O C K E	Ditto ...	Ditto.
,, 17	1 Case, N & Co.	Ditto ...	Ditto.
,, 17	1 Case, 500 in a diamond, W L below	Ditto ...	Dit o,
,, 17	3 Bundles nail rod iron, 1 white or no mark ...	Ditto ...	Ditto.
,, 17	9 Bundles nail rod iron, 1 red or no mark ...	Ditto ...	Ditto.
,, 22	1 Case, N C B by 48 in a block	Ditto ...	S. S. Rudeshimer."
,, 22	7 Cases, O & H	Ditto ...	Ditto.
,, 22	1 Case, 7860 in a diamond, J S & G outside ...	Ditto ...	Ditto.
,, 22	1 Case, C S	Ditto ...	Ditto.
,, 22	17 Iron joists, R or on mark	Ditto ...	Ditto.
,, 22	25 Packages, no mark	Ditto ...	Ditto.
,, 22	1 Iron j ist, S B S or no mark	Ditto ...	Ditto.
,, 22	1 Iron joist, K D or no mark	Ditto ...	Ditto.
,, 22	1 Case, I in a diamond, B B & Co. below ..	Ditto ...	Ditto.
,, 22	1 Case, J J H	Ditto ...	Ditto.
,, 22	3 Packages, G. W. Hungerford, Esq., care of Messrs Jardine, Skinner & Co.	Addressed ...	S. S. "Scotia."
,, 22	10 Packages, W L	Order ...	Ditto.
,, 22	2 Casks, T	Ditto ...	Ditto.
,, 22	1 Bale, S & Co. in a circle, H M top	Ditto ..	Ditto.
,, 22	2 Cases, H H in a diamond, C below . .	Ditto ...	Ditto.
,, 22	1 Sample, Messrs. Gopee Nath Misser & Co. ..	Addressed ...	Ditto.
,, 22	1 Sample, Messrs. T. N. Singh & Son, 4, Clive Ghât Street.	Ditto ...	Ditto.
,, 22	93 Iron rain-water pipes, C or no mark	Order ...	Ditto.
,, 22	7 Sheets iron, R B or no mark	Ditto ...	Ditto.
,, 22	1 Case, T A S in a heart, P top	Ditto ...	Ditto.
,, 23	6 Iron plates, no mark	Ditto ...	S. S. "Thorndale."
,, 23	3 Iron plates, Z	Ditto ...	Ditto.
,, 23	4 Iron plates, W H	Ditto ...	Ditto.
,, 23	10 Iron plates, K L	Ditto ...	Ditto.
,, 23	4 Iron plates, B C	Ditto ..	Ditto.
,, 23	165 Iron plates, L M	Ditto ...	Ditto.
,, 23	122 Iron plates, K L M	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 1st February 1890. (3500—1) G. H. SIMMONS, Vice-Chairman.

Notice.

IN continuation of notice, dated the 9th October 1889 published at page 1656, Part II of the *Calcutta Gazette* of 30th October 1889, regarding the Barque *Grosvenor*, it is further notified that the said vessel, with all her masts, sails, gear, and appurtenances which may be on board her on the 19th day of April 1890, will be sold by auction to the highest bidder on Saturday, the 19th of April 1890.

The sale will be held at the Port Office, Chittagong, and will commence at 3 P.M.

Terms—25 per cent. on fall of the hammer if desired by Receiver of Wrecks: the balance within a week of sale and before taking delivery. If the purchaser fails to pay the balance within seven days from date of sale, the vessel will be re-sold at his risk and expense. The vessel can be inspected at Chittagong by application to the Receiver of Wrecks.

E. GOOD, Receiver of Wrecks.

(3498—4)

WANTED a Sub-Overseer for the District Works, Maldah, on Rs 40 pay and Rs. 10 horse allowance. None need apply who is not a passed Sub-Overseer and has sufficient practical experience in road works. All applications, with copies of testimonials, must reach the undersigned on or before the 10th February 1890.

JOGENDRO NATH GHOSE, District Engineer.

(3473—2)

Notice.

WANTED a Record-keeper for the Maldah Collectorate on a salary of Rs. 40 rising to Rs. 60 by biennial increments of Rs. 2.

No one need apply who has not had previous experience in a similar post. The selected candidate is to furnish security to the extent of Rs. 500, either in Government Promissory Notes or in cash.

Applications will be received up to 25th February next.

POORNO CHUNDRA CHATTERJEE,
Deputy Collector in charge.

Excise.

NOTIFICATION.

1. The right of retail sale of the Liquors and Drugs specified below will be put up to auction at the Opium Sale-room, Board of Revenue, 2, Bankshall Street, on Tuesday, the 11th February 1890, and subsequent days, in the following order :—

Name of article.	Date of sale.
Country Spirit	Tuesday, 11th February 1890, commencing at 11 A.M. Wednesday, 12th ditto ditto ditto. Thursday, 13th ditto ditto ditto.
Rum and Imported Liquor by glass ...	Friday, 14th ditto ditto ditto.
Ganja, Siddhi, Charas, Majum ...	Monday 17th ditto ditto ditto. Tuesday, 18th ditto ditto ditto.
Opium, Madak, Chandu	Wednesday 19th ditto ditto ditto. Thursday, 20th ditto ditto ditto.
Tari	Friday, 21st ditto ditto ditto. Saturday, 22nd ditto ditto ditto.

2. A complete list of all the shops for which licenses will be offered and a copy of each form of license are open to general inspection at the Office of the Superintendent of Excise Revenue, 4, Bankshall Street, and the number of these shops is not under any circumstances to be increased during the term of three years ending the 31st March 1893, except under the sanction of the Commissioner of Excise, Bengal, in each case. The Superintendent of Excise Revenue, however, reserves to himself the right, in case of combination, or for other cause, to transfer, before its settlement, any shop from the locality specified, to some other locality in the neighbourhood, being within a distance of 150 yards from the advertised shop or premises, provided that in cases of re-sale the transfer does not bring the shop within a quarter of a mile of any other similar shop which has been settled at any previous sale and the term of whose license is unexpired.

3. It is not at present intended to open any other shop during the term of the license; but the Superintendent of Excise Revenue does not absolutely bind himself in this respect. On special cause shown, and with the sanction of the Commissioner of Excise, Bengal, in each case, the number of shops may be increased: provided, however, that, whenever a new shop is opened, it will be optional to the holder of a similar license for the sale of Liquor or Drugs, if his shop is within a quarter of a mile of the new shop, to surrender his license without forfeiting his advance, when the Superintendent of Excise Revenue is to re-settle the shop by auction or otherwise.

4. The right of retail sale of the Liquors and Drugs is to be put up to auction at upset prices sanctioned by the Commissioner of Excise, Bengal.

5. The right of retail sale of the Liquors and Drugs is to be put up to auction in separate lots of one or more shops either in the order specified in the list, or in such other order as the officer conducting the sale may deem fit. When one lot has been sold, the next lot is not to be put up until the sum payable in advance on account of the lot already sold has been actually paid: provided, however, that where the sum payable exceeds Rs. 25, a promissory note may be taken from any respectable and well-known purchaser in lieu of cash payment.

6. The purchasers of the right of retail sale of Country Spirit, Rum, and Imported Liquors are entitled to sell Imported Liquors by the glass only, the liquor to be drunk *on* the premises.

7. The auction is to be held subject to the following conditions :—

(*a*)—That the Superintendent of Excise Revenue does not bind himself to accept the highest or any bid.

(*b*)—That the settlement with each accepted purchaser will, in Calcutta and the Suburbs, be contingent on the production by him of the usual Police certificate or license as the case may be, viz.—

For Excise licenses for— Dosta ... ... Rum ... ... Imported Liquors by glass ... ... Tari ... ... Ganja ... ... Siddhi ... ... Charas ... ... Majum	If to be held in Calcutta, a Police certificate in the form prescribed by section 30, Act IV (B.C.) of 1866, must be produced; and if to be held in the Suburbs, a Police certificate in the form prescribed by section 19, Act II (B.C.) of 1866, must be produced.
For Excise licenses for— Opium ... ... Madak ... ... Chandu	If to be held in Calcutta, a Police license in the from prescribed by section 39, Act IV (B.C.) of 1866, must be produced; and if to be held in the Suburbs, a Police license in the form prescribed by section 22 of Act II (B.C.) of 1866 must be produced.

(*c*)—That the person accepted as the purchaser is to state in writing, within seven days from the date of settlement, in what building he purposes to open his shop, and is at the same time to submit a plan showing clearly and distinctly what building or portion thereof he desires to be covered by the license, it being understood that the removal of shops to other premises than those named in the list attached to this notification will be contingent on the approval of both the Excise and Police authorities, and that any sum which has been paid as an advance of the license fee under the provisions of clause (*d*) of these conditions will be returned to any person to whom a license may be subsequently refused for Police reasons.

(*d*)—That the term of the license is to be for three years ending the 31st March 1893, and that, except in the case of Tari, the license fee for that period is to be paid in advance in the following instalments:—namely, the sum equivalent to the fee for two months, at the time of sale, and one month's fee on the date on which the currency of the license commences, and one month's fee on the 1st day of every succeeding month, until the whole of the fee due on the license shall have been paid. In the case of Tari only one month's fee is to be paid in advance at the time of sale, and fifteen days' fee on the date on which the currency of the license commences, and the rest of the fee in half-monthly instalments, viz., on the 1st and 16th day of every month, until the whole of the fee due on the license shall have been paid. This condition is to be strictly enforced in future, and failure to comply with it is to be met by immediate cancelment of the license.

(*e*)—That the purchaser is not to be entitled to receive back any portion of his advance in the event of his shop being closed before the expiration of the term of the license on violation of any of the conditions of the license, or his being convicted of a non-bailable criminal offence, or of any offence against the Excise laws or rules; and in the case of the surrender of a license under Act VII (B.C.) of 1878, the licensee is to give fifteen days' previous notice in writing to the Superintendent of Excise Revenue, and pay a sum equal to the license fee for fifteen days, over and above the amounts already paid in advance; and in the case of the surrender of a license under Act I of 1878, the licensee is to give one month's previous notice in writing to the Superintendent of Excise Revenue, and pay such fine not exceeding six months' license fees as the Superintendent of Excise Revenue may adjudge, over and above the amounts already paid in advance.

(*f*)—That the currency of the license is to commence on the 1st April 1890 on which date the purchaser is to open his shop, in all respects prepared for the accommodation of customers, to be certified by an Excise Officer—failure to comply with this condition is to be met by the immediate cancelment of the license and the forfeiture of the deposit, except in the case of delay caused by the non-issue of the Police certificate or Police license, for which a reasonable extension of time may be allowed upon application and cause shown to the Superintendent of Excise Revenue.

(*g*)—That where the amount of the sum payable in advance is required to be paid at once in cash, and the bidder fails to make such payment, the officer conducting the sale is either immediately to put up the lot again for sale, or after the other lots in the list have been disposed of, or he may postpone the sale to such future date as he shall then and there notify; and the defaulting purchaser is to be debarred from bidding for such lot or for any other lot, and he is not to be allowed to remain in the auction-room; and that the defaulting purchaser will be liable for any loss that may accrue to Government in case it becomes necessary to re-sell a lot at a lower rate either in consequence of his failure to deposit the sum payable at the time of sale, or to redeem his promissory note on or before 4 P.M. on the day following that on which the note was signed.

(*h*)—That the purchasers are to adhere to all the provisions of the Opium, Excise and Police laws, and of the rules which have been or may from time to time be prescribed by the Board of Revenue.

8. All sales subsequent to the date of the triennial sale in March are to be held subject to the conditions contained in this notification, so far as they may be applicable.

9. Any further information regarding the auction may be had on application at the Office of the Superintendent of Excise Revenue.

D. G. BONNERJEE,
Superintendent of Excise Revenue,
Calcutta, the Suburbs, Howrah, and Bally.

OFFICE OF THE SUPDT. OF EXCISE REVENUE; 4, BANKSHALL STREET, CALCUTTA, *the* 15*th January* 1890.

Notification.

IT is hereby notified that under section 46 of the Local Self-Government Act III (B.C.) of 1885, the District Board of Dacca have at their Special Meeting, held on the 11th January 1890, determined to levy the road cess in this district for the ensuing financial year 1890-91 at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

L. HARE, Chairman.

Dacca District Board's Office, the 11th January 1890.

NOTICE is hereby given that Mary Stephen, who obtained a decree *nisi* on the 23rd January 1890 in the High Court for dissolution of marriage against her husband S. S. Stephen, has revoked and cancelled the power-of-attorney which she executed in his favour, and that the said S. S. Stephen has no authority to act as her attorney in any matter whatsoever. Any payment of money therefore to the said S. S. Stephen on account of the said Mary Stephen will not be recognised.

GONESH CHUNDER CHUNDER, Attorney for Mary Stephen.

Calcutta, the 27th January 1890. (3491—3)

Stolen.

THE Government Promissory Note No. 160426, of the 4 per cent. of 1865, for Rs. 1,000, and the Government Promissory Note No. 205964, of the 4 per cent. of 1865, for Rs. 1,000, the former originally standing in the name of the Bank of Bengal, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, the proprietor, by whom it was never endorsed to any other person; the latter originally standing in the name of the Comptroller-General, last endorsed to Soorendra Nath Mookerji, who in January 1889 endorsed to his wife Shrimoti Khiroda Debya, by whom it was never endorsed to any other person. Payment of the above Notes, and the interest thereupon, have been stopped at the Public Debt Office, Bank of Bengal, and application is about to be made for the issue of duplicates in favour of the proprietor.

SOORENDRA NATH MOOKERJI, Resident of Berijhatty under Serampore, zillah Hooghly, at present residing at Dholy *vid* Dholy P. O., zillah Mozufferpore.

(3425—3)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock

For further particulars apply to the Officer in charge

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Road Cess Notification.

DISTRICT PUBNA.

IT is hereby notified that under section 38 of the Cess Act, as amended by the second schedule of the Local Self-Government Act III (B.C.) of 1885, the District Board of Pubna have determined that road cess in that district for the cess year 1890-91 shall be levied at the maximum rate, viz., one-half anna on each rupee of the annual value of lands, and of the annual net profits from mines, quarries, tramways, railways and other immoveable property as enumerated in section 6 of the Cess Act.

W. FIDDIAN, Chairman.

LETTERS of Administration (with copy Will and Codicil annexed) of the property and credits of Edward John Morgan, formerly of Oak Cottage, Parkestone, near Poole, in the County of Dorset, but late of Forefield House, in the City of Bath, in the County of Somerset in England, Esquire, deceased, have been granted by the High Court, Calcutta, to G. W. F. Buckland, Esq., of No. 1, Esplanade West, Calcutta, as the Attorney of the executors named in the Will of the deceased. All persons having claim against the deceased are requested to submit same to the Administrator before the 15th day of February next, after which date no claims will be admitted.

J. A. APCAR, Attorney.

Calcutta, 30th November 1889 (3320—3)

JOGENDRA NATH SEN, M A, B. L, intends to apply for enrolment as a Vakil of the High Court.

(3444—4)

TARA PRASANNA GUHA, B.L., intends to apply for enrolment as a Vakeel of the High Court.

(3196—4)

Destroyed.

THE Government Promissory Note No. 029771 of the 4 per cent. loan of 1879 for Rs. 500, standing in the name of Baboo Sarbessur Mitra, the proprietor, by whom it was never endorsed to any other person. Payment of the above note and the interest thereup on have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for the issue of duplicates in favour of the proprietor after twoyears from date of last advertisement.

(2520—3) SARBESSUR MITRA, Asansol.

PROCEEDINGS of the Eighth General Meeting of Shareholders in the Bengal Silk Company, "Limited," held at the Registered Office of the Company, No. 25, Mangoe Lane Calcutta, on 29th January 1890, at noon.

PRESENT:

D. Yule, Esq.
Dr C. H. Joubert.
J. W. Stocks, Esq.
G. C. Hodgson, Esq.
J. A. Anderson, Esq.
E J. Marshall, Esq.
R. A. Lyall, Esq.
E. L. McAlester, Esq., by his Attorney, R. A. Lyall, Esq
C. J. Lyall, Esq., C.S., C.I.E. by his Attorney, R. A. Lyall, Esq.
A. A. Stokes, Esq., by his Attorney, R A. Lyall, Esq.
A. Yule, Esq., by his Attorney, D. Yule, Esq.
G Yule, Esq., by his Attorney, D. Yule, Esq.

Proposed by Mr. J. W. Stocks,
Seconded by Mr G. C. Hodgson—

1st.—That Mr. D. Yule take the Chair.

Proposed by Mr. D. Yule,
Seconded by Mr J. A. Anderson—

2nd.—That the Managing Agents' Report having been taken as read be adopted, and that the accounts be passed as correct.

Carried unanimously.

Proposed by Mr. G. C. Hodgson,
Seconded by Dr. C. H. Joubert—

3rd.—That a Dividend of 4 per cent. on the Capital of the Company be declared payable immediately after this meeting to every Shareholder whose name stood on the Books of the Company on 16th instant; and that the sum of Rs. 11,726-10-5 be carried forward to next account subject to the deduction of the Managing Agents' and Manager's commissions as detailed in the Report.

Carried unanimously.

Proposed by Mr. J. W. Stocks,
Seconded by Mr. J. A. Anderson—

4th.—That Messrs. Lovelock and Lewes be elected Auditors of the Company on the same remuneration as before.

Carried unanimously.

Proposed by Dr. C. H. Joubert,
Seconded by Mr. J. A Anderson—

5th.—That in the opinion of the Shareholders a vote of thanks is due to the Managing Agents and Manager for the skill with which they have brought the affairs of the Company through a series of disastrous years and placed them on the present satisfactory footing.

Carried unanimously.

The Meeting closed with a vote of thanks to the Chair.

D. YULE, Chairman.

LYALL, MARSHALL & Co., Managing Agents.
Calcutta, 29th January 1890. (3502—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of THOMAS RICHARDSON FRENCH, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 10th day of February instant, at the hour of half past ten o'clock in the forenoon

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid.

C. G. Lewis, Atttorney. (3503—1)

In the matter of BHUGWANJEE CURSONJEE, an insolvent.

On Thursday, the 2nd day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3504—2)

In the matter of SOORENDRO NATH SEN, an insolvent.

On Thursday, the 2nd day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

E. J. Fink, Attorney. (3505—2)

In the matter of GOPEE KANTO SEN, an insolvent.

On Friday, the 10th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

M. M. Chatterjee, Attorney. (3506—2)

In the matter of LEONTIUS BRIDGNELL NYSS, an insolvent.

On Monday, the 6th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3507—2)

In the matter of LEOZANDER and RAOUL QUILLET, insolvents.

On Saturday, the 11th day of January last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the 1st day of March next, and that the said insolvents do then attend to be examined before the said Court.

Dignam, Robinson and Sparkes, Attorneys. (3508-2.)

In the matter of THOMAS RICHARDSON FRENCH, an insolvent.

On Wednesday, the 29th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

C. G. Lewis, Attorney. (3509—2)

In the matter of THOMAS RICHARDSON FRENCH, of No. 7, Sudder Street, in the Town of Calcutta, teacher of music, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Wednesday, the 29th day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

C. G. Lewis, Attorney. (3510—1)

In the matter of GOPEE KANTO SEN, of No. 20, Durponarain Thakoor's Street, in the Town of Calcutta, formerly carrying on business as merchant in co-partnership with Romakanto Sen and Kisto Mohun Mullick, under the name and style of Hurry Dass Dutt & Co., and afterwards carrying on business as merchant and commission agent at No. 25, Swallow Lane in Calcutta aforesaid, under the name, style and firm of Gopeekanto Sen and Company, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Friday, the 10th day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

M. M. Chatterjee, Attorney. (3511—1)

In the matter of LEONTIUS BRIDGNELL NYSS, of No. 4, Beparee Tollah Lane, in the Town of Calcutta, a day extra reader in the Government Central Press, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Monday, the 6th day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3512—1)

In the matter of SOORENDRO NATH SEN, of No. 16, Modoo Roy's Lane, in the Town of Calcutta, lately an assistant in the Cash Department of Messrs. Mackinnon, Mackenzie and Company of Calcutta, merchants, but now out of employ, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 2nd day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

E. J. Fink, Attorney. (3513—1)

In the matter of BHUGOWANJEE CURSONJEE, of No. 10, Kurbulla Lane, in the Town of Calcutta, late a trader in rice to Allepee and Malabar coast, since then in the service of Mahomed Omer, and now in the employ of Solomon Perta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 2nd day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3514—1)

In the matter of *Gosto* Behary Seal, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 10th day of February instant, at the hour of half past 10 o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

N. C. Bose, Attorney. (3515—1)

Chief Clerk's Office, the 4th February 1890.

Insolvency Notice.

NOTICE is hereby given that the undermentioned dividend is lying unclaimed :—

Estate SREEGAM CHUNDER CHATTERJEE, *an insolvent.*

No.	NAME OF CREDITOR.	Amount of claim.	1st Dividend at Rs 50 per cent.
8	Abinash Chunder Shaha ..	Rs. A. P. 120 0 0	Rs. A. P. 60 0 0

Estate ALBERT SMALLWOOD (*separate estate*), *an insolvent.*

			1st Dividend at Rs. 1-13-6 per cent.
54	F. S Fairhead	Rs. A. P. 245 14 3	Rs. A. P 133 9 6

(3501—1) A B MILLER, Official Assignee.

POSTAL NOTICES.

Unclaimed Letters held in the Calcutta General Post Office on 4th February 1890.

Ainslie, J. H.
Albrechs, A.
Balthazar, C.
Brocas, Mrs.
Butler, Darley & Co.
Butterfass, G.
Caroll, W. F.
Cohen, A. M.
Currie, R S.
Schiebler, C.
Glyn, C.
Groner. R.
Gutch, George.
McNutty, J. H.
Watson, W.

Letters marked Care of "Post Office."

Backhouse, W. A.
Baragerey, L.
Barker, F. W.
Bather, H. R.
Baxter, Mrs.
Bear, W.
Bradshaw, W.
Brearey, James.
Belitski, R.
Berkeley, C. M.
Boland, J.
Brown, W.
Carbery, Lady.
Chatterton, J.
Church, E. M.
Close, H.
Comar, Mrs. A.
Cooper, W.
Courage, R.
Courtney, T. S.
Davis, Mrs. G.
Devitre, D. F. D.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Duclere, G. P.
Dunlo, Viscount.
Dymond, G. F.
Elliott, K.
Filleul Revd., S. E. V.
Fisk, F M.
Flack, F. F.
Flaherty, O. H.
Fletcher, Neil.
Forshaw, H.
Fraiser, H. C.
Fraiser, Miss F.
Francis, A. M.
Gallwey, C. H.
Gellett, Cecil S.
Glover, W. E.
Godwin, George.
Green, W. W.
Hamilton, C. J.
Hamilton, J. R.
Handcock, J. G.
Hardman, G. D.
Hunter, H. C.
Hardy, Mrs. M.
Harper, A.
Hawksworth, Mrs.
Henderson, W. H.
Hewett, F. J.
Hilton, R. W.
Horns, Miss M. L.
Jackson, T.
Johannesson, O. C.
Keane, J. J.
Kennard, F.
Kleine, Henri.
Krieger, G.
Lach, R.
Lamb, E. G.
Langer, J. O.
Lindeman, L. K.
Linton, C. E.
Livesey, Thomas.
Livewright, R.
Lloyd, Willis.
Long, W.
Major, A.
Mallite, J. W.
Malthy, S. W.
Manual, A. M.
Matthews, J. R.
Mathewson, F.
Maxwell, Sir, J. S.
May, J. J.
Mayes, W. H.
McAdoo, Mr.
McKenzie, Mrs. D.
McNair, Miss.
Mc'mith, D.
Menzies, C.
Mifsud George.
Morshead, L.
Monoriff, A. L. M.
Murphy, John.
Newby, C. R. A.
Ogden, J.
O'Mealy, Capt. D'Oyly.
Penn, Mrs.
Platts, Mrs. S. K.
Powell, F.
Prenter, Miss.
Rennrick, F. B. M.
Rennard, J. R.
Robart, P.
Robinson, G.
Rogerson, Miss A.
Roskell, Richard.
Rubie, Phil C.
Sano, T.
Sessions, F.
Sevestre, J.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Skinner, R. H.
Smith, M. O.
Soares, F. H.
Sweet, L.
Taylor, C.
Thomas. G. T.
Thomson, Captain W. A.
Thompson and Co.
Thompson, G
Uphill, T.
Ursite, Johan.
Waddell, Alex.
Walter, F.
Walter, Amherst.
Webster, Mrs.
White, H. J.
Williams, J.
Wilson, H. W.
Worker, E. H.

Registered Letters.

Edwards, C.
Guiseppe, Celestini.
James, L. E.
MacLeod, D. J.
Marsland, W.
Menzies, C.
Smith, M. Oswald.
Zucker, Moses.

Unclaimed Letters held in the Barrackpore Post Office on the 3rd February 1890.

Baker, E.
Balfour, H. T.
Coulter, A.
Dubery, E.
Harvey, Sergeant.
Harding, H. R.
Haswell, Mrs.
Lindsay, W. C.
Lloyd, C.
Martin, Mr.
Mathuson, J.
Presgent, Mr.
Stevens, Mrs. C.
Thompson, Jas.

E. HUTTON,
Presidency Postmaster, Calcutta

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	11th Feb. ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	10th „ ...	Ditto.
Mauritius, Mayotte, Nossi Be and Réunion.	11th „ ...	Ditto.
Zanzibar, Mozambique, Delagoa Bay, Natal and Cape Colonies.	11th „ ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	10th „ ...	Ditto.
Australia, New Zealand, and Tasmania.	10th „ ...	Ditto.
Madras and Colombo ...	5th „ ...	Per P. & O. steamer *Rossetta.*
Straits, China and Japan ...	6th „ ...	Per str. *Kutsang.*
Rangoon and Moulmein ...	7th „ ...	Ditto *Sirsa.*
Ditto ditto ...	11th „ ...	Ditto *Madura.*
Akyab, Kyaukpyu, Sandoway and Rangoon.	5th „ ...	Ditto *Madras.*
Mauritius	11th „ ...	Ditto *Wardha.*
Adelaide, Melbourne and Sydney.	8th „ ...	Ditto *Clitus.*

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.
General Post Office, the 4th February 1890.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 31st January 1890.

Name of river.	Reach of river.	Least depth of water soundings. Ft. In.	Remarks.
Bhagirati.	Entrance from Ganges ...	1 0	At mouth entrance practically closed.
	Thence to Nurpur ...	1 0	Dhopipara.
	From Nurpur to Jungipur ...	1 0	Kanupore.
	„ Jungipur to Berhampur	1 2	Patanpara.
	„ Berhampur to Cutwa .	1 0	Nogore.
	„ Cutwa to Nuddea ...	2 3	Patooly.
Bhyrub-Jelinghi.	Entrance from Ganges ...	6 0	
	Thence to Akriganj	5 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 3	Chukvama.
	Thence to Patkabari	5 0	Amtola.
	Patkabari to Nuddea	3 9	Kalinagur.
Mahanga.	Entrance from Ganges ...	2 0	
	Thence to Chnypara	1 0	Sircarpara.
	From Chnypara to Shikarpur	0 6	Pragpore.
	„ Shikarpur to Roalia ...	0 9	Shampore.
	„ Roalia to Chuadanga ..	2 6	Sialmari.
	„ Chuadanga to Kissengunj and Hanskhali...	2 6	Pirpore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	REMARKS.
			A. M.	Feet.	Feet.	Below zero.
Ganges.	Sahebganj ...	1-2-90	6	1 00	67·00	
	Rampore Boalia	1-2-90	12	0·06	42 96	
	Entrance of Bhagirati ..	1-2-90	7	2·30	47·61	
	Entrance of Bhyrub-Jelinghi	1-2-90	...	7·25	45·61	
	Entrance of Matabanga ...	1-2-90	...	2·61	... .	
Bhagirati...	Berhampur ...	3-2-90	12	2·42	56·21	
Jelinghi ...	Kishnaghur ...	31-1-90	...	3·79	12·68	
	Saroopgunge ...	1-2-90	6	2·02	7·22	
Matabanga	Hanskhali ...	31-1-90	...	2·50	13 35	

C. E. LIVERSAY, C.E.,
Exe. Engr., Nuddea Rivers Division.

Berhampore, the 3rd February 1890.

AT the Meteorological Office, No. 5, Russell Street, the following official publications:—

Meteorological Report of	1867	... Rs.	0 12	per copy.
Ditto	ditto	1868 ... „	1 8	„
Ditto	ditto	1869 .. „	2 4	„
Ditto	ditto	1870 ... „	2 6	„
Ditto	ditto	1871 ... „	2 8	„
Ditto	ditto	1872 ... „	3 0	„
Ditto	ditto	1873 ... „	3 0	„
Ditto	ditto	1874 ... „	3 0	„
Administration Report of		1870-71 ... „	0 4	„
Ditto	ditto	1871-72 ... „	0 4	„
Ditto	ditto	1872-73 ... „	0 4	„
Ditto	ditto	1873-74 ... „	0 4	„
Ditto	ditto	1874-75 ... „	0 4	„
A table of the average monthly and annual rainfall at 98 Stations in Northern India ...		... „	0 4	„
Report of the Midnapore and Burdwan cyclone of the 15th and 16th October 1874 ...		... „	2 8	„

The above are also to be obtained at the same prices at Messrs. Thacker, Spink & Co., No. 5, Government Place.

JOHN ELIOT, M.A., *Meteorological Reporter to the Govt. of Bengal.*

CALCUTTA, the 26th August 1875.

THE following Reports of the Bengal Meteorological Department, issued by orders by the Government of Bengal, can be supplied to the public at the prices annexed:—

1st.—Bay of Bengal Daily Report giving observation taken at 20 stations on or near the coast of the Bay, with a chart and summary. This is published in connection with the Calcutta Storm Signal Service. The report giving 10 A.M. observations of the day is distributed by peon in Calcutta after 4 P.M. Price to subscribers in Calcutta, Rs. 2 per mensem.

2nd.—Bengal Daily Report containing observations taken at 37 meteorological stations, and transmitted to Calcutta by weather telegrams, with a brief summary of the weather in Bengal during the preceding 24 hours The report giving the 10 A.M. observations of each day is printed in time for the evening mail. This report for the present will only be published during the south-west monsoon, *i.e.*, from May 15th to November 15th. Price Rs. 2-8 per mensem, including postage.

3rd.—A Weekly and Monthly Statement of Meteorological Observations taken at 44 observing stations, and of rainfall recorded at 245 sub-divisional stations together with summaries of the more important features of the meteorology of the past week or month of the province, and of the distribution of the rainfall and its variation from the normal. Price of the Weekly Report including postage, Rs. 6 per annum, payable in advance and of the Monthly Summary Report, Rs. 2 per annum, payable in advance.

Subscriptions payable to the Meteorological Reporter to the Government of Bengal for the Bay of Bengal, Daily Report, and to the Accountant and Treasurer Bengal Secretariat, for the other reports.

ALEX. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Office, Bengal, the 17th March 1886.

The Indian Law Reports,

Published under Authority.

THE Indian Law Reports, published under the authority of the Governor-General in Council, appear in monthly parts, published as soon as possible after the first of each month at Calcutta, Madras, Bombay, and Allahabad, and comprise four series—one for the Calcutta High Court, a second for the Madras High Court, a third for the Bombay High Court, and a fourth for the Allahabad High Court. The cases heard by the Privy Council on appeal from each High Court are reported in the Series for that High Court. Cases heard by the Privy Council on appeal from Provinces in India not subject to any High Court are reported in the Calcutta Series

The Calcutta Series is distributed by the Bengal Secretariat, and the Madras, Bombay, and Allahabad Series are distributed direct from Madras, Bombay, and Allahabad respectively.

In supersession of the previous advertisements, on and from the 1st January 1889 the terms of subscription and sale will be as follows for current issues as well as for back numbers of the Reports from 1876:—

Terms of subscription payable annually in advance.

For the complete series, *including postage*, Rs. 22-8.

	Without postage. Rs. A. P.	With postage. Rs. A. P.
For the Calcutta Series ...	10 0 0	12 8 0
„ each of the Madras, Bombay, and Allahabad Series ...	6 0 0	7 0 0
„ a part of the Calcutta Series purchased separately (*inclusive of postage in India*)	.....	2 0 0
„ a part of each of the Madras, Bombay, and Allahabad Series purchased separately (*inclusive of postage in India*) ..	.....	1 0 0

The following is the rate at which deductions will be made for parts out of print and at which duplicate copies will be supplied to subscribers when required in place of copies lost in transit.

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R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.

The 24th February 1886.

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PART VI.

Bills introduced into the Council of the Governor General for making Laws and Regulations, or published under Rule 22.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Bill was introduced into the Council of the Governor General of India for the purpose of making Laws and Regulations on the 31st January, 1890:—

No. 3 OF 1890.

A Bill to Amend the Indian Factories Act, 1881.

WHEREAS it is expedient to amend the Indian Factories Act, 1881; It is hereby enacted as follows:— of 1881.

1. For the words "one hundred" in section 2 of the said Act the word "twenty" shall be substituted.

Amendment of definition of "factory" in section 2, Act XV, 1881.

2. For the word "seven" in sections 4, 5, 6 and 16 of the said Act the word "nine" shall be substituted.

Amendment of sections 4, 5, 6 and 16, Act XV, 1881.

3. To section 4 of the said Act the following shall be added, namely:—

Addition to section 4, Act XV, 1881.

"or for more than the time allowed by this Act for the employment of women."

4. (1) For the first clause of section 7 of the said Act the following shall be substituted, namely:—

Amendment of section 7, Act XV, 1881.

"No woman shall be actually employed more than eleven hours, nor any child more than nine hours, in any factory in any one day."

(2) In the second clause of the same section, before the word "child" the words "woman or", and between the words "allowed to" and the word "him" the words "her or" shall be inserted.

(3) In the last clause of the same section, for the words "A child shall not be deemed to be employed" the words "A woman or child shall not be deemed to be actually employed" shall be substituted.

5. For section 8 of the said Act the following shall be substituted, namely:—

Substitution of new section for section 8, Act XV, 1881.

"8. Every occupier of a factory in which women or children are employed shall, before the beginning of each month, fix, according to the castes or classes to which such women or children belong or otherwise, not less than four days in such month to be observed as holidays by each woman or child employed in the factory, and shall forthwith give notice of the days so fixed to such officer as the Local Government may, from time to time, appoint in this behalf.

Allowance of holidays to women and children.

"An occupier of a factory may, with the previous sanction of the Inspector, substitute, for any day fixed under this section, another day in the same month.

"A woman or child shall not be employed in such factory on a day fixed under this section as a day to be observed as a holiday by the woman or child, unless when another day has been substituted for such day as hereinbefore provided, in which event the woman or child shall not be employed in such factory on the day so substituted."

6. In section 9 of the said Act, before the word "child" the words "woman or" shall be inserted.

Amendment of section 9, Act XV, 1881.

Amendment of section 15, Act XV, 1881.

7. (1) In clause (*a*) of, and the second proviso to, section 15 of the said Act, between the words "any" and "each" respectively and the word "child" the words "woman or", and in the same proviso between the words "two or more" and the word "children" the words "women or", shall be inserted.

(2) For clauses (*e*) and (*f*) of the same section the following shall be substituted, namely:—

"(*e*) neglects to fence any machinery or mill-gearing in any factory;

(*f*) neglects to maintain a supply of water for the use of persons employed in any factory;

(*g*) neglects to ventilate any factory or to keep any factory in a cleanly state and free from effluvia arising from any drain, privy or other nuisance;

(*h*) suffers any factory to be so overcrowded, while work is carried on therein, as to be injurious to the health of the persons employed therein; or

(*i*) neglects to give any notice or furnish any return,".

Amendment of section 18, Act XV, 1881.

8. (1) For clauses (*b*), (*c*) and (*d*) of section 18 of the said Act the following shall be substituted, namely:—

"(*b*) the water-supply to be maintained for the use of persons employed in factories;

[41 Vict. c. 16, s. 61 (1).] (*c*) the ventilation of factories and their cleanliness (including lime-washing, painting, varnishing and washing) and freedom from effluvia arising from any drain, privy or other nuisance;

(*d*) the prevention of such overcrowding of factories, while work is carried on therein, as is likely to be injurious to the health of the persons employed therein;

(*e*) the obligation of occupiers of factories to furnish true returns, occasional or periodical, on and in accordance with the requisition of the local Inspector or the Local Government;

(*f*) the inspection of factories;

(*g*) the manner in which appeals under this Act are to be presented and heard; and

(*h*) otherwise carrying out the purposes of this Act."

(2) To the same section the following shall be added, namely:—

"Before making rules under clause (*b*), clause (*c*) or clause (*d*) of this section, the Local Government shall publish in such manner as may in its opinion be sufficient for giving information to persons interested a draft of the proposed rules, with a notice specifying a date at or after which the draft will be taken into consideration, and shall consider any objection or suggestion which may be received from any person with respect to the draft before the date so specified."

References to Act XV of 1881 to be read as references to that Act as amended by this Act.

9. A reference in any enactment or document to the Indian Factories Act, 1881, shall be read as a reference to that Act as amended by this Act.

[Cf. Ind. Act XIII 1887, s. 3 Bom. Act 1888, s. (2); and Act IV, s. 10 (2) (iii) and (1).]

IV of 18

STATEMENT OF OBJECTS AND REASONS.

THE Government of India, having recently had under its consideration the reports of Local Governments on the operation of the Indian Factories Act, 1881, and the proceedings of the Commission appointed in 1884 to consider the working of factories in the Bombay Presidency, is of opinion that the Act of 1881 should be so amended as to—

(*a*) bring within its scope any factory in which not fewer than twenty hands are employed,

(*b*) raise from seven to nine years the age below which a child may not be employed in a factory,

(*c*) limit the hours of work for women to eleven in any one day,

(*d*) extend to women the provisions of the Act with respect to the allowance of holidays to children, and enable occupiers of factories to fix such days as holidays for the women and children employed therein as, having regard to the different classes or castes to which they belong, may be most convenient for them,

(*e*) authorise Local Governments to make sanitary rules suited to local requirements, and

(*f*) render it obligatory on occupiers of factories to furnish such statistics as may from time to time be required by the Government.

The object of the Bill is to amend the Act accordingly.

Among the enactments which will be incidentally affected by the Bill (section 9) are the Electricity Act, 1887, the City of Bombay Municipal Act, 1888, and the Indian Merchandise Marks Act, 1889.

A reprint of Act XV of 1881, with the proposed amendments set forth in italics, is appended to this Statement.

The 31st January, 1890. ANDREW R. SCOBLE.

APPENDIX.

ACT No. XV of 1881.

(As amended by the Bill.)

An Act to regulate labour in Factories.

Preamble. WHEREAS it is expedient to regulate labour in factories: It is hereby enacted as follows:—

Preliminary.

Short title. 1. This Act may be called the Indian Factories Act, 1881.

Local extent. Commencement. It applies to the whole of British India, and shall come into force on the first day of July, 1881.

Interpretation-clause. 2. In this Act, unless there is something repugnant in the subject or context,—

"factory" means any premises (other than indigo-factories or premises situated on, and used for the purposes of, a tea or coffee plantation) wherein or within the precincts of which manual labour is carried on, for not less than four months in the year, in any one year, any process for, or incidental to, making, altering, repairing, ornamenting, finishing or otherwise adapting for use, transport or sale, any article or part of an article; and

(*a*) wherein steam, water or other mechanical power is used in aid of any such process; and

(*b*) wherein not less than *twenty* persons are on any day simultaneously employed in any manual labour in, or incidental to, any such process; and

every part of a factory shall be deemed to be a factory, except any part used exclusively as a dwelling:

"child:" "child" means a person under the age of twelve years:

"mill-gearing:" "mill-gearing" includes every shaft, whether upright, oblique or horizontal, and every wheel, drum, pulley, rope, driving strap or band, by which the motion of the first moving power is communicated to any machine:

"employed." a child who works in a factory, whether for wages or not, either in a manufacturing process or handicraft, or in cleaning any part of the factory used for any manufacturing process or handicraft, or in cleaning or oiling any part of the machinery, or in any other kind of work whatsoever incidental to, or connected with, the manufacturing process or handicraft, or connected with the article made or otherwise the subject of the manufacturing process or handicraft therein, shall be deemed to be employed therein within the meaning of this Act.

Inspectors and certifying Surgeons.

Inspectors. 3. The Local Government may in its discretion, by notification in the official Gazette, appoint such persons as it thinks fit to be Inspectors of factories within such local limits as it may assign to such Inspectors, and may suspend or dismiss any person so appointed.

In default of such appointment, the Magistrate of the district shall, in virtue of his office, be Inspector of all factories (if any) in the district.

Such Inspectors shall be deemed public servants within the meaning of the Indian Penal Code; and shall be officially subordinate to such authority as the Local Government may, from time to time, indicate in this behalf.

Powers of Inspector. 4. An Inspector of factories may, within the local limits for which he is appointed,—

(*a*) enter, with such assistants (if any) as he thinks fit, any factory whenever he has reason to believe that any person is employed therein;

(*b*) make such examination of the premises and machinery, and of the registers hereinafter prescribed, and take on the spot or otherwise such evidence of any person, as such Inspector may deem necessary for carrying out the provisions of this Act;

(c) order that any person shall not be employed in a factory when he has reason to believe that such employment would be in contravention of this Act—

until the age of such person has been certified, in the manner hereinafter provided, to be above *nine* years; or,

for more than the time allowed by this Act for the employment of children until his age has been so certified to be above twelve years; *or*

for more than the time allowed by this Act for the employment of women.

Certifying surgeons.

5. The civil surgeon or such other person practising medicine or surgery as the Local Government may, from time to time, appoint in this behalf for any local area (hereinafter called the certifying surgeon) shall, at the request of any person employed or desirous of being employed in a factory situate in such local area, or of the parent or guardian of such person, examine such person and grant him a certificate, stating whether his age, as nearly as it can be ascertained from such examination, is above or below *nine* years, or twelve years, as the case may be.

Women and Children.

Age *for* employment *of children.*

6. No child shall be employed in any factory if he is under the age of *nine* years.

Hours of employment for *women and* children.

7. No *woman* shall be actually employed *more than eleven hours, nor any child more than nine hours, in any factory* in any one day.

And no *woman or* child shall be employed in any factory on any day without an interval, or intervals, amounting in the whole to at least an hour, being allowed to *her or* him for food and rest.

The times at which such intervals shall be allowed, and the length of each interval, shall be fixed by the Local Government for each factory, after ascertaining, as far as possible, the existing practice in such factory and the wishes of the occupier thereof.

The occupier shall set up and maintain, in some conspicuous place in the factory, a printed or written notice, in English and the languages of the district in which the factory is situate, showing the times at which such intervals shall be allowed and the length of each interval.

A *woman or* child shall not be deemed to be *actually* employed within the meaning of the first clause of this section during any interval allowed for food or rest.

Allowance of holidays to women and children.

8. *Every occupier of a factory in which women or children are employed shall, before the beginning of each month, fix, according to the castes or classes to which such women or children belong or otherwise, not less than four days in such month to be observed as holidays by each woman or child employed in the factory, and shall forthwith give notice of the days so fixed to such officer as the Local Government may, from time to time, appoint in this behalf.*

An occupier of a factory may, with the previous sanction of the Inspector, substitute, for any day fixed under this section, another day in the same month.

A woman or child shall not be employed in such factory on a day fixed under this section as a day to be observed as a holiday by the woman or child, unless when another day has been substituted for such day as hereinbefore provided, in which event the woman or child shall not be employed in such factory on the day so substituted.

Prohibition of employment of woman or child in two factories on same day.

9. No occupier of a factory shall employ therein on any day any *woman or* child who has to his knowledge already been employed on the same day in any other factory.

Prohibition of employment of child in certain dangerous work.

10. No occupier of a factory shall allow any child to clean any part of the mill-gearing or machinery of such factory while the same is in motion, or to work between the fixed and traversing parts of any self-acting machine while such machine is in motion by the action of the steam-engine, water-wheel or other mechanical power, as the case may be.

Register of children in a factory.

11. The Local Government may direct any occupier of a factory to keep, in such form and with such particulars as such Government may, from time to time, prescribe, registers of the children (if any) employed in such factory, and of their respective employments.

Fencing.

Fencing.

12. (*a*) Every fly-wheel directly connected with a steam-engine, or water-wheel or other mechanical power in any part of a factory, and every part of a steam-engine or water-wheel,

(*b*) every hoist or teagle near which any person is liable to pass or be employed, and

(*c*) every other part of the machinery or mill-gearing of a factory which may, in the opinion of the local Inspector, be dangerous if left unfenced, and which he may have ordered to be fenced,

shall, while the same is in motion, be kept by the occupier of such factory securely fenced.

Any order under clause (*c*) may be set aside, on appeal or otherwise, by the Local Government or such authority as it may appoint in this behalf

Notices.

Notice to be given of accidents.

13 When any accident occurs in a factory causing death or bodily injury whereby the person injured is prevented from returning to his work in the factory during forty-eight hours after the occurrence of the accident, the occupier of such factory, or, in his absence, his principal agent in the management of such factory, shall send such notice of such accident to such authorities in such form and within such time as the Local Government may, from time to time, by rule, direct.

Person beginning to occupy factory to give notice.

14. Every person shall, within one month after he begins to occupy a factory, send to the local Inspector a written notice containing the name of the factory, the place where it is situate, the address to which he desires his letters to be addressed, the nature of the work performed in such factory, the nature and amount of the moving power therein, and the name of the person (if any) under whom the business of the factory is to be carried on.

Penalties.

Penalties.

15. Any person who, in breach of this Act, or of any order or rule made hereunder,—

(*a*) employs any *woman or* child in any factory;

(*b*) neglects to set up or maintain the notice required by section seven, or to fix the days referred to in section eight;

(*c*) allows any child to perform the work forbidden by, or to work in contravention of, section ten;

(*d*) neglects to keep a register in manner prescribed under section eleven,

(*e*) neglects to fence any machinery or mill-gearing in any factory;

(*f*) *neglects to maintain a supply of water for the use of persons employed in any factory.*

(*g*) *neglects to ventilate any factory or to keep any factory in a cleanly state and free from effluvia arising from any drain, privy or other nuisance;*

(*h*) *suffers any factory to be so overcrowded, while work is carried on therein, as to be injurious to the health of the persons employed therein; or*

(*i*) *neglects to give any notice or furnish any return,*

shall be punished with fine which may extend to two hundred rupees:

Provided that—

1st, no prosecution under this section shall be instituted except by, or with the previous sanction of, the local Inspector; and

Only one penalty for same kind of offence on one day.

2nd, no person shall be liable under this section to more than one penalty for any one description of offence committed on the same day, except where two or more *women or* children are employed contrary to the provisions of this Act, in which case one penalty may be imposed in respect of each *woman or* child so employed.

Burden of proof as to age.

16. Where an act or omission would, if a person were under *nine* or twelve years of age, be an offence punishable under this Act, and such person is, in the opinion of the Court, apparently under such age, it shall lie on the accused to prove that such person is not under such age.

Certifying surgeon's declaration in writing.

A declaration in writing by a certifying surgeon that he has personally examined a person employed in a factory, and believes him to be under or over the age set forth in such declaration, shall, for the purposes of this Act, be admissible as evidence of the age of that person.

Occupier primarily liable for breaches of Act.

17. Every occupier of a factory shall be deemed primarily liable for any breach therein of the provisions of this Act; but he may discharge himself from such liability by proof to the satisfaction of the local Inspector, before prosecution therefor, that such breach was committed by some other person without his knowledge or consent; and the person committing such breach shall be liable therefor.

Miscelluneous.

Power to make rules.

18. The Local Government may, from time to time, make rules consistent with this Act, to provide for—

(*a*) the fencing of machinery and mill-gearing in factories;

(*b the water-supply to be maintained for the use of persons employed in factories;*

(*c*) *the ventilation of factories and their cleanliness (including lime-washing, painting, varnishing and washing) and freedom from effluvia arising from any drain, privy or other nuisance;*

(*d*) *the prevention of such overcrowding of factories, while work is carried on therein, as is likely to be injurious to the health of the persons employed therein;*

(*e*) *the obligation of occupiers of factories to furnish true returns, occasional or periodical, on and in accordance with the requisition of the local Inspector or the Local Government;*

(*f*) *the inspection of factories;*

(*g*) *the manner in which appeals under this Act are to be presented and heard, and*

(*h*) *otherwise carrying out the purposes of this Act.*

Such rules shall be published in the official Gazette, and shall thereupon have the force of law.

Before making rules under clause (b), clause (c) or clause (d) of this section, the Local Government shall publish in such manner as may in its opinion be sufficient for giving information to persons interested a draft of the proposed rules, with a notice specifying a date at or after which the draft will be taken into consideration, and shall consider any objection or suggestion which may be received from any person with respect to the draft before the date so specified.

Crown factories.

19. This Act shall apply to factories belonging to the Crown: provided that, in case of any public emergency, the Governor General in Council or the Local Government may, by an order in writing, exempt any such factory from this Act to such extent and during such period as the Governor General in Council or the Local Government, as the case may be, thinks fit.

S. HARVEY JAMES,
Secretary to the Government of India.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 5, 1890.

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION.

No. 23 Marine, dated Calcutta, the 30th January 1890

NOTIFICATION—By the Govt of Bengal, P. W. Dept.

UNDER the powers conferred upon him by section 36 of the Indian Steam-ships Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to Engineers of sea-going steam-ships :—

Certificates of competency granted to persons who pass requisite examinations.

1. Certificates of competency will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose Examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint

Examinations continued till all the candidates are examined

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates who have then presented themselves and whose names appear upon the Port Officer's list on the day of examination are examined.

Application how to be made.

3. The application for examination is to be made on Form Exn. 3, which must be filled up at the Port Office. The Form Exn. 3 properly filled in, together with the Candidate's Indentures of Apprenticeship, testimonials, and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required.

4. Applicants will be required to produce, in addition to the usual Forms of Discharge, satisfactory testimonials as to sobriety, experience, ability, and general good conduct for at least the 12 months immediately preceding the date of application to be examined, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an Employer; if at sea, by the Master and Chief Engineer.

5. In cases where a testimonial from the Chief Engineer, or from the Master, is for any sufficient reason not obtainable, one may be submitted from the Superintending Engineer in place of that of the Chief Engineer, and one from the Managing Owner or Secretary or Chairman of a large Company in place of that of the Master, but in every such instance the testimonial must declare that the facts stated are in accordance with the reports made by the Chief Engineer or the Master, as the case may be, or else that the facts are within the writer's personal knowledge.

6. As such testimonials may have to be verified before the Candidate can be examined, it is desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners.

7. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age.

8. Should any doubt exist as to the age of a Candidate, he will be required to produce a Certificate of Birth or Baptism.

Foreigners to know English.

9. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel.

Verification of services, &c., by Articles

10. Services which cannot be verified by proper entries in the Articles of the Ships in which the Candidates have served cannot be counted.

Service on a lake or river.

11. In addition to the required workshop time, service on a lake or river, in a steamer in which the aggregate piston area of the propelling engines proper amounts to at least 2,000 (two thousand) circular inches will be accepted towards qualifying a candidate to be examined for a certificate of competency as follows:—

Two months of river or lake service, in a capacity not lower than that of Third Engineer, may be deemed equivalent to one month of sea service, provided that,

For a Second Class Certificate, not less than three months of the qualifying service must be actual sea service, and that,

For a First Class Certificate, at least six months of the qualifying service must have been at sea in a grade not below that of Third Engineer, where an engineer of a lower grade is carried. During the last 18 months of this service the candidate must have been in possession of a Second Class Engineer's Certificate of competency.

Assistant Engineer.

12. Service entered upon a ship's Articles as having been performed in the capacity of Assistant Engineer must be supported by proof of the Candidate having acted as Second, Third, or Fourth Engineer, as the case may be.

Service in home or coasting trade.

13 The service required by the Regulations to qualify a candidate for examination is to be regarded as referring to service in the Foreign Trade only. Service in the Home or Coasting Trade must amount to at least half as much again as that required by the Regulations to make up for the time spent in Port, *e g.*, for every twelve months' service under the Regulations, eighteen months' service in the Home or Coasting Trade will be required. In all cases the length of service is deemed to commence on the date of signing of the articles of agreement, and to end on the date of discharge.

Service as Engineer only accepted as qualifying service.

14. Service in the engine-room (afterwards referred to) for qualifying a candidate to be examined for a Second-class Engineer's Certificate must be only in those capacities which afford opportunities of obtaining practical experience as an engineer; and service in the capacity of fireman, stoker, donkeyman, greaser, winchman, labourer, engineer's steward, or any other capacity than that of engineer taking watch on engines and boilers for propelling will not be accepted

Service as Third and Fourth Engineer.

15. Service as Third and Fourth Engineer in Foreign-going steamers, where more than three or four engineers, as the case may be, are carried, their names being all entered on the Articles in their respective ratings, may be accepted equally with service as Second Engineer to qualify a Candidate for examination for a First-class Engineer's Certificate, provided he has, during the whole of such service, been in possession of a Second-class Engineer's Certificate (Imperial, or under Order in Council), and provided also that he was regularly in charge of a watch. In the case of Fourth Engineers, however, eighteen months of such service must be proved for every twelve months required by the Regulations.

16. Service in a capacity below that of Fourth Engineer cannot be accepted as qualifying for any class of certificate unless the testimonials of the candidate explicitly certify that during such service he has been taking regular watch in the engine-room, and that the Chief Engineer or Superintending Engineer considers him properly qualified by that experience to act as Chief Engineer of a Foreign-going steamer of 99 horse-power nominal. *In any case the applicant must prove that he has had the responsible charge of the engines or boilers on regular watch for at least twelve months of sea service, of which for not less than six months he must have been in charge of the propelling engines and rated on the articles not lower than Fourth Engineer.* Service below the grade of Fourth Engineer

17. Having "responsible charge" will be understood to imply, in regard to the engines, that the applicant, for the time specified, was, on regular watch, the person responsible for carrying out the orders of the engine-room telegraph, and, in regard to the boilers, that he was, similarly for the period specified, the person responsible for regulating the feeds.

18. When the workshop service has been performed in a place *where steam-engines are not made*, and the class of work done is similar to that required in engine-making, the service may be accepted with an additional year in the engine-room; that is, three years' workshop service and two years in the engine-room, of which one year must have been at sea. The approval of the Government must be obtained in every such case before the authority to receive a certificate is issued by the Examiners. Workshop service.

19. When the workshop service has been performed in a place *where engines are made*, and the department in which the applicant has been principally engaged is not "*fitting*" or "*erecting*," if the nature of the service be such as is useful training for an Engineer, the Government may, on proper representation of the circumstances, see fit to accept the service as qualifying along with subsequent experience, but in every such case the applicant must prove additional engine-room service as required above. The approval of the Government must likewise be obtained.

20. If a candidate has served in the Engine Room with a Second class Certificate in the capacity of a Second Engineer in Foreign-going Steam-Ships under 100 horse-power, or in Home Trade Passenger Steam-Ships, which are not required by law to carry a certificated Second Engineer, his service may be accepted without reference to the vessel's horse-power, provided he has been on the ship's articles as Second Engineer, and produces certificates of discharge as Second Engineer, for the required period. Service as Second Engineer where certificate not required

21. The Government may see fit to allow an applicant who, in consequence of service abroad, has been unable to obtain a Second-class Certificate, to be examined for a First-class Certificate, although he has not obtained a Certificate of the lower grade, provided he is able to satisfy them as to the satisfactory character of his services. First-class certificates without second.

22. In such cases (para. 21) or in cases where the candidate is already in possession of a Certificate of Service, should he fail to pass the examination for the higher grade, but passes the examination for the lower grade, he may receive a Certificate accordingly, but no part of the fee will be returned. Unsuccessful candidates may in certain cases receive certificates for inferior grade.

23. A candidate who under the above regulation (para. 21) has been permitted to be examined for a First-class Certificate without first obtaining a Second-class Certificate of Competency, and who fails in his examination in practical knowledge, may not be re-examined for a Certificate of the higher grade until he has served 12 months as Second Engineer with a Second-class Engineer's certificate of competency as required by the Regulations. Consequence of failure in such cases.

24. If the candidate fails altogether, *i.e.*, both in the examination for the lower as well as for the higher grade of Certificate (para. 21), he may be re-examined for a *Second-class Certificate only*, subject to the usual regulations relating to failure.

If after passing examination services are found to have been insufficient.

25. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, the Certificate may be issued to him, or he may be allowed to go up for re-examination without payment of further fee, when he has performed the amount of service in which he was deficient as the Government may direct.

Certificate of lower grade may be granted on certain conditions.

26. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate may be placed to his credit.

May have to be re-examined for certificate of higher grade

27. In such a case when the applicant has by further service made up the time in which he was found to be short, he may be required, before he can receive the higher certificate, to be re-examined in all the subjects.

Qualifications for Certificates of Competency.

Qualification of candidate for Second-class Engineer's Certificate.

28. SECOND-CLASS ENGINEER.—A candidate for a Second-class Engineer's certificate must be not less than 21 years of age;

(*a*) He must have served an apprenticeship to an Engineer for three years in England or five in India at least, and prove that during the period of his apprenticeship he has been employed on the making and repairing of engines:—Or if he has not served an apprenticeship, he must prove that for not less than three years in England or five in India he has been employed as a journeyman mechanic in some factory or workshop* on the making or repairing of engines.† In either case he must also have served one year at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade‡; or

(*b*) He must have served at least four years at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade.

(*c*) He must be able to give a description of boilers, and the methods of staying them, together with the use and management of the different valves, cocks, pipes, and connections.

(*d*) He must understand how to correct defects from accident, decay, &c., and the means of repairing such defects.

(*e*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*f*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*g*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total break-down.

(*h*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*i*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

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* No period of service in a drawing office can be allowed to count for more than six months workshop time.

† These may be either land or marine engines.

‡ *See* paragraph 13 as to service in Home or Coasting Trade.

29. First-class Engineer.—A candidate for a First-class Engineer's Certificate must be not less than 22 years of age. Qualification of candidate for First-class Engineer's certificate.

30. In addition to the qualification required for a Second-class Engineer—

(*a*) He must either possess, or be entitled to, a First-class Engineer's certificate of service; or, in the event of his not being so possessed or entitled, he must have served for one year at sea as Second Engineer with a Second-class Engineer's Certificate of Competency, or for two years at sea as Second Engineer with a Second-class Engineer's Certificate of Service: or having served one year at sea as Second Engineer with a Second-class Engineer's certificate of Service, he must show, in addition, at least six months' service as Chief Engineer in a vessel required by law to carry at least one Engineer holding a certificate. (*See also paragraph* 15 *as regards service as Third and Fourth Engineer.*)

The Examiner should therefore be satisfied that an applicant for a First-class Engineer's Certificate has not only been *in possession* of a Second-class Certificate for the periods above stated, but that he has actually *served* for such periods in the Engine Room at sea with a Second-class Certificate in the capacities referred to, and that his name has been entered in the articles of agreement accordingly. (*See also para* 21.)

(*b*) He will be required to make an intelligible hand sketch, or a working drawing of some one or more of the principal parts of a steam-engine; and to mark in, without a copy, all the necessary dimensions in figures, so that the sketch or drawing could be worked from.*

(*c*) He must also be able to take off and calculate indicator diagrams

(*d*) He must be able to calculate safety-valve pressures and the strength of the boiler shell, stays, and riveting.

(*e*) He must be able to state the general proportions borne by the principal parts of the machinery to each other, and to calculate the direct stress, the torsional stress, and the bending stress in round bars, and the direct stress and the bending stress in rectangular bars with given loads.

(*f*) He must be able to explain the method of testing and altering the setting of the slide valves, and to sketch about what difference any alteration in the slide valve will make in the indicator diagram, and also the method of testing the fairness of shafts and of adjusting them.

(*g*) He must be conversant with surface condensation, superheating, and the working of steam expansively.

(*h*) His knowledge of arithmetic must include the mensuration of superficies and solids and the extraction of the square root, and the application of these rules to questions relating to the power, duty, and economy of engines and boilers, and to the stresses in rods, shafts, and levers of the engine.

Service in the Royal Navy.

31. Engineers and Assistant Engineers of the Royal Navy are at liberty to apply for Certificates of Service, and to be examined for Certificates of Competency in the Mercantile Marine; but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty. Engineers

32. As regards the grades of Certificates of Competency for which Officers of the Royal Navy can be examined, the rule is—"First-class Assistant," or "Assistant Engineers" of the Royal Navy may be examined for Second-class Engineers' Certificates of "Competency"; "Engineers" of the Royal Navy for First-class Certificates of Competency. Grades.

* *See* Appendix B.

Temporary service in the Royal Navy.

33. Temporary active service as Engineer in the Royal Navy counts in applications for Certificates of Competency in the same way and to the same extent only as in the case of the service of Mercantile Marine Engineers, that is to say, so much of the applicant's time as is spent in active service at sea, or in a ship commissioned for sea service, counts as "sea service;" and so much of the applicant's time as is spent in active service on boardship in harbour, and not commissioned for sea, counts as workshop time—*See* paragraph 28, sub-section (*a*).

Engineer Artificer.

34 Service performed in the capacity of Engineer Artificer may count to qualify a Candidate for examination for a Second-class Engineer's Certificate of Competency in the Mercantile Marine. If the service has been on shore, it will count only as workshop time. If in the Engine Room at sea, the Candidate must prove that during such service he had charge of an Engine Room watch.

Fees.

Fees to be paid by applicants for examination. (Exn. 17.)

35. Candidates for examination, in making their Application on Form Exn. 3, will be required to pay the Examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

36. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

37. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

38. The fees are as follow:—

Second-class Engineer's Certificate	...	Rs.	12
First-class Engineer's Certificate	...	„	24
First-class Engineer's Certificate if candidate is already in possession of a Second-class Certificate of competency granted by the Board of Trade, or by the Government of a British possession under Section 8 of the Merchant Shipping (Colonial) Act, 1869	...	Rs.	12
Renewal of any certificate	... ...	„	5

General Rules as to Examinations.

Candidates not to take books, &c., into examination room.

39. All books necessary for the use of candidates under examination will be provided by the Government, and applicants are not permitted to take into the examination room any book, paper, document, or memoranda of any description whatever.

40. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners, but they will not be allowed to work out the problems on a slate or on waste paper. The additional sheets must be attached to, and form part of, the examination papers.

41. Candidates for First-class Certificates have to pass an examination in Rough Working Drawing, which may, at the candidates' option, be either hand sketches clearly dimensioned and complete in the necessary *views* and *sections*, or drawings to a scale Drawing boards and T squares will be provided by the Government, but the applicants will have to bring with them any drawing instruments they may require.*

* *See* Appendix B.

42. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination ; and no part of the fees he may have paid for examination will be returned to him. This penalty also applies to any breach of paragraph 34. Punishment for breaking rules.

43. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the Examiners may substitute other data or another question. Leaving examination room.

44. All applicants presenting themselves for examination will be required to give written answers to ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency, and of Masters and Mates for certificates in steam." These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling. Questions from Form Exn 15*a*

45. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

46. Examiners may add to their *vivâ voce* questions on the practical management of steam-engines and boilers any of those contained in Exn 15*a*.

47. If at the expiration of the time allowed the candidate has worked out and answered correctly the whole of the questions set to him, and given satisfactory answers in the *vivâ voce* examination, he will be declared to have passed.

48. If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *vivâ voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiners that the applicant is competent to take charge of engines of 100 nominal horse power or upwards, he will be declared to have passed.

49. In other cases he will be declared to have failed.

50. A report of the examination, and the examination papers, will be forwarded to the Port Officer on the Form (Exn. 15). Exn 15.)

51. If the candidate passes, he will receive the Form Exn. 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c., will be returned at the same time. Notification of having passed will be given to successful candidates. (Exn. 16.)

Failure.

52. If the applicant fails in practical knowledge, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service at sea as Engineer from the date of failure. If he fails in arithmetic or drawing only, he may come up again at any time.

General.

53. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed.

54. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

55. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

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* *See* Appendix A.

APPENDIX A.

Form **Exn. 15a.**

Elementary Questions for the First Examinations of Engineers for Certificates of Competency and of Master and Mates for certificates in steam.

TO ENGINEER EXAMINERS.

EXAMINERS will require all candidates to fill up a form, Exn. 15*b*., of which a copy is enclosed, and they will forward the same to the Port Officer for transmission to the Government along with the report of the examination.

It is intended to issue questions of a more advanced character for first-class candidates, but in the meantime the questions for both classes of Engineers and also for Masters and Mates passing a Voluntary Examination in steam will be taken from the same book of "Elementary Questions," and candidates for first-class certificates are expected to show their superiority by giving answers more complete than those of the other candidates.

The arithmetical questions for Engineers and the *viva voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences.

Masters and Mates may cancel questions A, B, and C, but they should fill up the form for questions D, E, F, and G, as evidence of their practical knowledge.

Exn. 15b.

Port	Class for which examined
Date	Candidate's name

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the engine-room at sea, and in what capacities?

D. With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *see* the book of Elementary Questions. The questions need not be written; only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS.

1

What parts of an engine are generally made of wrought-iron?

2.

What parts of an engine are generally made of cast-iron?

3

For what parts of an engine is steel sometimes used?

4.

What parts of an engine are generally made of brass or gun-metal?

5.

Where is "white metal" sometimes used? On account of what property possessed by it is it adopted? What objection is there to its more general use?

6.

For what parts is Muntz metal sometimes used? Is it malleable? For what properties is it valued?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other?

9.

What are the different properties of cast-iron, of wrought-iron and of steel?

10.

What is meant by the terms "breaking stress," "proof stress," "safe working stress"?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron?

12.

Tempering steel: how is it done, and in what order do the colours come?

13.

What is case-hardening?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short"?

15.

What is meant by "welding"? Which of the common metals can be welded?

16.

The expansion of metals by heat: give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot? When the material is steel, what precautionary treatment of these plates is afterwards necessary?

18.

What is double riveting? In what parts of cylindrical marine boilers is double riveting employed? In which of the shell seams is it most necessary?

19.

What is "caulking," and how are seams prepared for caulking?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans?

21.

What strain per square inch is allowed on boiler stays?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected?

24.

How are boiler tubes fixed? What are "stay tubes," and how are they secured?

25.

Where is it generally that boiler tubes leak? How is this defect raired? What are the causes of this leaking?

26.

What are the causes of cracked tube plates? Where are the cracks situated? How are they repaired?

27.

What is the difference between a "dry uptake" and a "wet uptake"? Which requires most repair? Why? Where have you seen a wet uptake?

28.

What is a superheater? What is its construction? What valves are on it? There is sometimes a gauge glass on it; what is that for?

29.

What parts of a marine tubular boiler are first injured by shortness of water?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used?

31.

Priming: to what causes is it attributed? What means are applied to prevent it? What evils may be produced by it?

32.

Funnel draught: what makes it? What checks it?

33.

Flame is sometimes seen at the top of the funnel: what causes this appearance? Is it beneficial or is it detrimental? Why so?

34.

A blast pipe: what is its construction? Where is it placed? For what is it used?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted?

36.

Blow-off cocks are sometimes fitted with a spanner guard: for what purpose is this? Describe how the guard is formed?

37.

Test cocks or water-gauge cocks: where are they placed? At what heights? Must the cocks themselves be at those heights? What provision is made for cleaning these cocks should they ever become choked? When there are no test cocks how is the height of the water ascertained?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation?

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses? There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear, and the engine still moving?

63.

What are "double beat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers?

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double-acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that, when opened, admits steam from the slide valve casing to the exhaust port; what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing? Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in when under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used? What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action? To what part of the engine is it connected? Whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed? In that case are the feathering levers on the striking face or on the back of the float? When the paddle shaft has an outer bearing, how is the eccentric made?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats? Are they all lubricated? With what?

103.

What is a "Disconnecting Paddle Engine"? At what place is the disconnecting effected? How is it accomplished? In which of the cranks of a disconnecting engine are the crank pins fixed?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines? For what steamers are disconnecting paddle engines frequently employed?

105.

What are expansion joints? Where are they necessary? What attention do they require? Of what should the working surfaces be made?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied? How is this prevented in the construction of a steam trunion pipe for an oscillating engine?

107.

Describe an oil cup with a syphon worsted? How is the worsted arranged? How is it cleaned? How far down the tube does it extend?

108.

Describe a thrust bearing; which of the surfaces wears? Why are there sometimes a number of oil tubes for one thrust bearing?

109.

What parts of a screw shaft are generally covered with brass? Why is this necessary? About what thickness is the brass?

110.

What is the stern tube or screw shaft pipe? Why is a pipe of such a length required? Of what is it made? How is it fixed at each end?

111.

What is a lignum vitæ bearing? How is the wood fitted? Where is such a bearing generally used?

112.

How is a screw propeller fixed on the shaft? What means are used to prevent its getting loose at sea?

113.

Where are sluice valves placed? What large sluice valve is there in almost all screw steamers? From what position should this valve be worked? Why so? What attention should it receive?

114.

With a condensing engine, what valves or cocks are on the skin of the ship in the engine-room and in the stokehole?

115.

What are the necessary fittings of a marine boiler?

116.

With a surface condensing engine, what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action? To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected?

121.

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller, at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion ?

134.

What is the explanation of the economy of the surface condenser ?

135.

What is the construction of a surface condenser ? Of what are its tubes made ? How are they fixed ? How are they kept tight ? What is done with a split tube ?

136.

Where do surface condensers foul ? How are they cleaned ?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied ?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation ?

139.

How can the formation of black smoke be prevented ? Describe smoke preventing apparatus ?

140.

What is meant by "circulation" in a boiler, and what are the results of defective circulation ?

141.

What means are sometimes adopted to improve the circulation in a boiler ?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler ?

143.

Describe a ship's side air-pump discharge valve ? In what respects does it sometimes differ from a common stop valve, and what attention does it require ?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated ?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks ?

146.

What is the measure of a horse power ? How is indicated horse power ascertained ?

147.

Has "nominal horse power" a fixed meaning ? What is the use of this expression ? What is generally taken as the measure of one horse-power nominal ?

148.

What is "back pressure" in a cylinder ? About how much is it in each of the cylinders in your last steamer ? Is excessive cushioning ever a trouble under certain conditions in modern engines ? Say when and why and in which cylinder this occurs ?

149.

What is meant by "speed of piston" ? About how much is the speed of piston in modern marine engines ?

150.

What is "atmospheric pressure" ? What is its average amount ? What instrument tells this amount ?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction? Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163.

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge: in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer; its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs., and (5) of strain about 150 lbs.; also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, gets short of water although the feed valve is open its proper amount; to what causes might this be due?

179.

Of what are furnace bars generally made? About what thickness are they at top? About what space is between them? Whether are the bars put further apart for Newcastle coal or for Welsh coal?

180.

Which burns faster, Newcastle coal or Welsh coal? Which is the flaming coal? Which makes most smoke?

181.

About how many tons of steam coal will be burnt per day in four furnaces each 3′ 0″ wide, and of about the usual length? On what grounds do you say so?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone? On what grounds do you say so? What percentage more coal would be required to propel the same steamer one knot faster?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work? On what grounds do you say so?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam? Which will take place earlier, and which later distinguishing between the up stroke and the down stroke?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke?

186.

A screw propeller is getting loose; it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts?

APPENDIX B.

Form Exn. 17.

Examination in Rough Working Drawing for a First-Class Engineer's Certificate of Competency.

1. The regulations in regard to the qualifications of a candidate for a first-class Engineer's Certificate of Competency specify that—

> "He must be able to make rough working drawings of the different parts of the engines and boilers."
>
> "He must be able to state the general proportions borne by the principal parts of the machinery to each other."

2. In accordance with these clauses, a candidate for a first-class certificate is required to make a rough working drawing of the parts specified on the other side of this leaf. A mechanic who has been some years in charge of marine engines and boilers ought by this time to have familiarly in his mind the general construction of at least one set of engines and boilers, say that set he was

last with. Fine drawing is not expected, and in the proportions of the parts a wide margin will be allowed ; absurd dimensions will be failure in practical knowledge.

3. The drawing must, however, be practically a working drawing, giving a sufficient number of views to show the parts fully—sections, plans, or elevations, just as the candidate would require to be supplied to him if he had to make the parts to the design of another person.

4. A clear hand sketch showing the construction, completely and fully dimensioned, will be accepted if the candidate prefers this alternative.

5. A portion only of the parts specified may be accepted in place of the whole, if that portion is sufficient to show that the candidate has a good practical idea of the construction of the parts, and a fair notion of their general proportions or dimensions.

6. Candidates are hereby cautioned not to put on paper what they have not fully considered, and deliberately intend to be understood, as their statement of what they know about the construction of any part required.

7. The statements given in by a candidate may be in themselves, apparently, of little importance, but as sample material from which the state of the candidate's knowledge of engines and boilers is to be inferred, every detail which is glaringly inconsistent with a sound knowledge of the use of the part, or in which an essential consideration has evidently been overlooked, is an important element in the description which the candidate is giving of his own qualifications.

8. The candidate is advised not to begin more than he can clearly finish in the time allowed. An important object in this part of the examination is to ascertain whether the candidate can be trusted to mark all necessary dimensions upon a sketch or a drawing. The test of this is, practically, the making of the part from the sketch without having to supply additional dimensions, and without measuring the drawing. To prove this ability the candidate must fully dimension the parts shown in his sketch or drawing, notwithstanding that the parts may be correctly drawn to scale. A drawing is fully dimensioned when no part of it is left to the option of the party who is to work to the drawing.

9. To prevent misunderstanding, however, when the candidate has been led into showing more of the details than he has time fully to finish, he should name, in the statement on the other side, the particular parts which he has fully dimensioned.

10. All dimensions should have lines and darts, to indicate distinctly the points between which the dimensions are given.

11. Beware of writing cross dimensions upon centre lines, or upon longitudinal dimension lines. This is not an order but a recommendation.

12. The candidate is not expected to design anything; he has merely to sketch or draw a something with which he is expected to be already familiar.

13. Pencil in nothing after half-past 8 ; all the dimensions, the figures, and the darts must be inked in; employ the remaining time in examining the drawing and in inking in any figures which may have been before overlooked, and in checking the dimensions.

14 Make sure that you will have sufficient room on the drawing sheet to show all the necessary views. You can have another sheet or drawing paper if necessary. All the paper used must be forwarded with the drawing.

15 Fill in and sign the following statement.

(Specimen.)

Form Exn. 17a.

Subject for Examination in Rough Working Drawing.

(Read the foregoing general instructions.)

A common slide valve with its spindle. Show also an outline section of the ports at the cylinder face. Show the provision for connecting the slide valve to the spindle.

The candidate is requested to fill up the following, and to attach this paper to his drawing.

STATEMENT BY THE CANDIDATE.

The accompanying drawing, made by me this day, without referring to any document, and without the assistance of any person, is intended by me to be sufficient for the new construction of the parts above described to fit the places of similar parts which are to be removed. The construction is similar to what I have been with in the_____steamer_____, but the dimensions may be different.

The diameter of the cylinder is_____

The stroke of the piston is_____

The stroke of the valve is_____

The cover at top end on steam side is_____

The cover at bottom end on steam side is_____

The lead at top is intended to be_____

The lead at bottom is intended to be_____

The inside cover is +_____or____.

The thickness of the face of valve is_____

The thickness of the body of valve is_____

The greatest opening for steam will be_____

That gives an area equal to one_____

The opening for exhaust when the crank is on the top centre is_____

That gives an area equal to_____th of piston.

The length of the connecting rod is_____

The valve will cut off steam on the down stroke at_____

The valve will cut off steam on the up stroke at_____

The Candidate may omit this part if he chooses.

The parts fully dimensioned, in ink, are_____

_____

Dated at_____

this_____ day of_____18

_____ Applicant.

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

FIRST CLASS ENGINEER.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of* 1884, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18——.

Under-Secy. to the Govt. of Bengal.

BENGAL.

No. of Certificate [redacted]

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____ *on the*_____ *day of*_____ 18 .

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. *This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act* 25 *and* 26 *Vic., cap.* 63, *sec.* 23, *to cancel or suspend Certificates.*

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18 .

Registered,
Port Officer of Calcutta.

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

SECOND CLASS ENGINEER.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of 1884, grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18__.

Under-Secy. to the Govt. of Bengal.

BENGAL.

No. of Certificate

Address of Owner———————————————

Date and Place of Birth———————————————

Signature———————————

This Certificate is given upon an ORDINARY EXAMINATION passed at———————*on the*———

day of———————18—.

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the———————*day of*———————18—.

Registered,
Port Officer of Calcutta.

No. 24 Marine, dated Calcutta, the 30th January 1890.

NOTIFICATION—By the Govt. of Bengal, P. W. Dept

UNDER the powers conferred upon him by section 36 of Act VII of 1884 (the Indian Steam-ships Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engine-drivers of sea-going steam-ships having engines of under 50 nominal horse-power :—

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

2. The application for examination is to be made in Form Exn. 3*a*, which must be filled up at the Port Office. The Exn. 3*a* properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

3. A candidate for a certificate of competency under these rules must be not less than 22 years of age.

4. He must have served three years as principal serang or tindal in the engine-room of a sea-going steamer under a certificated Engineer.

5. He must have the testimonial shown in Appendix A filled up by the Engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

6. He must pass a *vivâ voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

7. He must, if required, be able to show his practical qualifications by one week's trial in a steamer, after fulfilling the other tests to which he will be subjected.

8 He must show a knowledge of the use of brine cocks and blowing off, of the salinometer, and of the care of the boiler in salt-water.

9. Candidates for examination, in making the application on Form Exn. 3*a*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them; but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service or are able to produce satisfactory testimonials, as the case may be.

10. The fee for examination under these rules is ten rupees, and the amount must be remitted with the application to the Port Officer. In any case in which a candidate offers money to any other officer than the Port Officer, and in any place but the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

11. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

12. In case of failure, candidates may be re-examined *de novo* after a lapse of six months, if the past examination showed that they might reasonably be expected to qualify.

13. Certificates of competency shall be made and issued by the Government in the form hereunto annexed.

14 Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

TESTIMONIAL.

I *hereby certify that* *has served with me in the engine-room of* *as principal serang or tindal for a period of* *, during which time he has discharged his duties to my entire satisfaction.*

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a sea-going steamer having engines of under 50 *nominal horse-power.*

Signed

No. and description of Certificate.

Note—Any Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applicant's eligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINE-DRIVER OF A SEA-GOING STEAM VESSEL UNDER ACT VII OF 1884.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Engine-driver on a sea-going Steam-ship having engines of under 50 nominal horse-power, I do hereby, in pursuance of Act VII of 1884, grant you this CERTIFICATE OF COMPETENCY as Engine-driver.*

By order of the Government of Bengal,

Given under my Hand and Seal,

The_____ day of_____ 18____. *Under-Secretary to the Govt. of Bengal.*

No. of Certificate

*Bearer*_____ *son of*_____ *by caste*_____

Date and Place of Birth, showing Village, Thana and District*_____

*Residence, showing Village, Thana and District*_____

*Height*_____

*Personal description, stating particularly any permanent marks or scars*_____

*No. of Register Ticket*_____

*Signature*_____

Any Engine-driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer of Calcutta.

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Registered.

Port Officer of Calcutta.

* If not known exactly, must be stated on the best information or evidence.

No. 25 Marine, dated Calcutta, the 30th January 1890.

NOTIFICATION—By the Govt of Bengal, P. W. Dept.

UNDER section 10 of the Indian Merchant Shipping Act, 1859, the Lieutenant-Governor is pleased, with the sanction of the Governor-General in Council, to make the following rules for the conduct of examinations for Masters and Mates of foreign-going ships and as to the qualifications to be required. These rules are in supersession of the rules issued under the notification dated the 28th of August 1877.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government, as, if this be not done, delay may be occasioned.

Testimonials of character, conduct, and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form, Exn. 2, as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners, and of British Seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to age.

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British Vessel. In the case of natives of India, who may not be able to speak English, their Certificates will be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the Articles of Agreement were signed by the Applicant, and to end at the date when he was discharged as shown on the Articles of Agreement. The Certificates of Discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

Verification of services, &c., by Articles

9. Services, which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served, cannot be counted. For instance, a man will state his

service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of employment by the Master, to the effect that he served as Mate, when, on reference to the Articles, it appears that he has actually been rated as Boatswain; the service in such a case will not be regarded as having been in the capacity of Mate.

Promotion during Voyage

10. Whenever a man has, from any cause, been regularly promoted on a vacancy in the course of the Voyage from the rank in which he first shipped, and such promotion, with the ground on which it has been made, is properly entered in the Articles and in the Official Log Book, he will of course receive credit for his service in the higher grade for the period subsequent to his promotion.

Service in the coasting trade

11. Service in the coasting trade may be allowed to count as service, in order to qualify a Candidate for examination for a Certificate of Competency for Foreign-going Ships, it being understood, however, that service in the coasting trade must amount to half as much again as service in the foreign trade, and that service in a lower grade than that of First or Only Mate in the coasting trade will not be recognised as officer's service.

12. Three years' service as Mate in the coasting trade, together with at least nine months' service as Master, may be allowed to count as service for a Master's Certificate, provided the Candidates' entire service at sea calculated as above is sufficient, and that his services as Mate and Master in the coasting trade can be proved by the Articles, and provided he has already passed an examination *for the Foreign Trade*, unless, *under special circumstances*, the Government see fit to dispense with this latter provision.

13. Service in Pleasure Yachts under 80 tons, if performed within Home Trade limits, will not be accepted towards qualifying a Candidate for examination.

14. Service in Pleasure Yachts will not be accepted at all unless verified by satisfactory proofs, and it must be distinctly understood that accepted service is confined to *actual sea service*, service in harbour or port being inadmissible. *See also para.* 21.

Service as an Apprentice.

15. Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound, to the effect that he has performed his service faithfully for the whole time agreed upon.

Service as 3rd or 4th Mate to qualify for 1st Mate.

16. Service as Third or Fourth Mate may be accepted as equivalent to service as Second Mate to qualify a Candidate for examination for a Certificate of Competency as First Mate, provided he is able to produce a satisfactory testimonial from the Master or owner of the vessel in which the service was performed, showing that he has had charge of a watch while serving as such Third or Fourth Mate, and that during the whole of the time claimed he was in possession of a Second Mate's Certificate of Competency, valid in the United Kingdom.

Service as 3rd or 4th Mate to qualify for Master.

17. Service as Third or Fourth Mate may also be accepted on the same conditions to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. If a Candidate has had no service as First Mate he must have been six and-a-half years at sea, of which two and-a-half years must have been as Mate of a lower grade under the above-named conditions. It will also be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations.

Service on board a Training Ship

18. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself creditably, and passed a good examination in seamanship so

far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

19. No period of service on board a training ship will be allowed to count for more than one year's sea service, nor can it be accepted as equivalent to service in square-rigged vessels.

Service in Auxiliary Screw Whaling ships.

20. Service in Auxiliary Screw Whaling Ships and other Vessels with auxiliary steam power, which use their screws only in calms or during light winds, is considered as service performed in Sailing Vessels. Such service is not to be accepted in cases where service on board Foreign-going Steam-ships is required.

Service in Trawlers, Yachts, &c.

21. Service performed in Trawlers, Yachts, &c., *alone* will not qualify a Candidate for examination for a Foreign-going Certificate. He must show that he has served, in addition thereto, 18 months in an ordinary trading vessel.

Service in capacities other than as Apprentice or Seaman.

22. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the Applicants have served. Failing satisfactory evidence, the Applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth-waters.

23. Service performed on rivers, no matter of what size, or in smooth-water or partially smooth-water cannot be accepted.

Loss of sight.

24. A person who has lost the sight of one eye cannot be allowed to be examined for a Certificate of Competency. If he already holds a Certificate, he will not be allowed to be examined for a Certificate of a higher grade.

Service in Light Ships and Engine-room.

25. Service in Light Ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

26. In the case of service on board Excursion Steamers only such service as has been performed actually at sea can be accepted.

27. A First Class Pilot, with one year's Sea Service since he obtained his Pilot's Certificate, may be examined for a First Mate's Certificate for Foreign-going Ships. A Hooghly Master Pilot is for the purpose of this rule to be considerd a First Class Pilot.

Services as Pilot's Apprentice.

28. Half the amount of service performed as an Apprentice in a Pilot Vessel propelled by sails may count as actual Sea Service to quality for examination for a Certificate of Competency.

Desertion and gross misconduct.

29. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequent service and good conduct at sea, unless the Local Government after having investigated the matter should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

30. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government is satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted in certain conditions.

31. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

32. In such a case when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

33. The Government have made the following arrangements for the Examination of persons as to their ability to distinguish Colours :—*

34. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

35. Any person, including the holders of Certificate of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

36. He must on the appointed day attend for examination at the Examiner's Office ; and if he passes he will receive a Certificate to that effect.

37. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

38. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2.—Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

39. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will, in such event, be returned to him.

40. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

41. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form 2ª.

42. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

43. Should he pass this Examination the following statement will be written on the face of the higher Certificate which may be granted to him, viz. : "This officer has failed to pass the 'Examination in Colours.'"

44. Should he ultimately fail to pass the Examination in Navigation and Seamanship a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

45. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a "Foreign-going Ship."

Foreign-going Sailing Ships

46. EXAMINATION IN COLOURS —All Candidates for Certificates of Competency must first be examined in colours.*

47. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea. He must also prove that he has served at least one year in a square-rigged sailing vessel within the last five years. *See also para.* 11. Second Mate.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years

* *See* Appendix L.

within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

48. IN NAVIGATION, &c.—He must write a legible hand, and will be required to give in writing, *vide supplementary viva voce* test, page 37, definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant, with its adjustments, and be able to observe with it, find the index error by the horizon, and *read off* and *on the arc*.† He must also pass a satisfactory examination in the International Code of Signals.‡

49. IN SEAMANSHIP, &c.—He must give satisfactory answers as to the standing and running rigging of ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c.; as to the management of a ship when under canvas; of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals,§ and be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals ‖ He must be able to mark and use the lead and log lines. He must also understand the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature appertaining to the duties of the Second Mate of a ship, which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Second Mates' Certificates of Competency for Foreign-going Steam-ships.

50. AN ONLY AND FIRST MATE.—An Only Mate and a First Mate must be not less than nineteen years of age, and must have served five years at sea, of which in the case of a First Mate, one year must have been as Second or Only Mate. *See* also paras. 11, 16 and 27.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediataly preceding the date of his application to be examined.

Only and First Mate.

A Candidate for an Ordinary Certificate of *any* grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

51. IN NAVIGATION.—In addition to the qualifications required for a Second Mate, an Only and First Mate must be

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* *See* Appendix A.

† *See* Appendix B.
‡ *See* Appendix C.
§ *See* Appendix D.
‖ *See* Appendix E.

able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun, both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and be able to use and adjust the sextant,* and to find the index error by the sun; also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find, on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relative to cyclones or revolving storms.§

52. In Seamanship, &c.—In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship, and to keep a clear anchor; to carry out an anchor; how to manage a ship in stormy weather; how to cast a ship on a lee shore; how to secure the masts in the event of accident to the bowsprit; and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds and the stowage of explosives. He must also know how to rig a sea anchor, and what means to apply to keep a vessel disabled or unmanageable out of the trough of the sea, and lessen her lee drift; how to get a cast of deep sea lead in heavy weather; and answer any other questions appertaining to the duties of an Only and First Mate of a ship which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Only and First Mate's Certificates of Competency for Foreign-going Steam-ships.

53. A MASTER must be twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a-half years must have been as Second Mate of a Foreign-going Ship, during the last twelve months of which service as Second Mate he must have been in possession of a First Mate's Certificate. *Vide also paras.* 11, 12 and 17. Master.

On and after the 1st June 1889, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

A Candidate for an Ordinary Certificate of any grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

54. In Navigation.—In addition to the qualifications required for a Second, Only, and First Mate, a Master must be able to compute the latitude from the meridian altitude of a star, &c. He must be able to find the magnetic bearing from

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* *See* Appendix B.

† *See* Appendix I.

‡ *See* Appendix F. The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them showing the "true" or "magnetic" points of the compass respectively.

§ *See* Appendix K.

equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram, which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron.* He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time and to work out practically the correction to apply to soundings taken at a given time and place to compare with the depth marked on the chart.†

55. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct jury rudders for both wooden and iron vessels, and also rafts. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends, or in any danger or difficulty; or if disabled or unmanageable and on a lee shore; heaving a keel out, &c. He must explain the mode of procedure when placing ship in dry dock, directing repairs, and if putting in to port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties, and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter party, bills-of-lading, Lloyd's agent, and as to the nature of bottomry, also bills-of-exchange, surveys, averages, &c., and must answer any other questions of a like nature appertaining to the management of a ship which the Examiners may consider it necessary to touch upon. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Masters' Certificates of Competency for Foreign-going Steam-ships.

Fore and Aft rigged ships.

Certificates for Fore and Aft rigged Vessels.

56. Certificates for the grades of Master, First Mate, Only Mate, and Second Mate, on which the words "for Fore and Aft rigged vessels only" will be written, will be issued to Candidates who have not complied with the regulation which requires them to have served at least one year in square-rigged *sailing* vessels, or who prove in course of examination that they are ignorant of the management of square-rigged ships.

57. A certificate "for Fore and Aft rigged vessels only" will not entitle the possessor to act in a capacity for which a certificate is required in square-rigged vessels, amongst which are classed full-rigged ships, barques, brig, barquentines, brigantines, and steam-ships carrying square sails.

58. A Candidate possessing a certificate "for Fore and Aft rigged vessels only," and desiring to obtain an ordinary certificate of the same grade, must prove that he has served at sea at least one year in a square-rigged *sailing* vessel, and will be re-examined both in navigation and seamanship.

Foreign-going Steam-Ships.

Qualifications for Certificates of Competency for Foreign-going Steam-ships only.

59. Certificates of Competency will be issued, subject to the examinations hereinafter described, for officers who have served in steam-ships, and who, owing to absence of service in square-rigged sailing ships, cannot under the

* *See* Appendices G and M.
† *See* Appendix F.

existing regulations obtain Certificates of Competency to act in the capacity of Masters or Mates of square-rigged ships.

60. These certificates will entitle the holders to go to sea as Masters and Mates of foreign-going steam-ships, but will not entitle the holders to go to sea as Masters or Mates of foreign-going sailing ships.

61. There will be no distinction in respect of "Fore and Aft" and "Square-rigged" steam-ships.

62. EXAMINATION IN COLOURS.—All Candidates for Certificates of Competency must pass the examination in Colours.

63. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea. *See* also para. 11. Second Mate.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

64. IN NAVIGATION, &c.—He must write a legible hand, and will be required to give in writing (*vide supplementary viva voce test, page* 39) definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by a parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant with its adjustments, and be able to observe with it, find the index error by the horizon, and read *off* and *on* the arc.† He must also pass a satisfactory examination in the International Code of Signals.‡

65. IN SEAMANSHIP, &c.—He must give satisfactory answers as to the standing and running rigging of steam-ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c., as to seeing everything in readiness and clear for getting under way, and as to the precautions to be then observed with regard to engines, propellers, &c.; as to the management of a steam-ship when under canvas; and of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals,§ and be able to describe the signals of distress and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals.‖ He must be able to mark and use the lead and log lines. He must also understand the construction, use, and action of the sluices, and of the water-ballast tanks, engine-room, telegraph, &c.; the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature, appertaining to the duties of the Second Mate of a steam-ship, which the Examiners may think necessary to put to him.

66. AN ONLY AND FIRST MATE.—An Only Mate must be not less than nineteen years of age, and must have served five years at sea. A First Mate must be nineteen years of age, and must have served five years at sea, of which Only and First Mate.

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* *See* Appendix A. † *See* Appendix B. ‡ *See* Appendix C.
§ *See* Appendix D. ‖ *See* Appendix E.

one year must have been as Second or Only Mate of a Foreign-going Steam-ship. *See also paras.* 11, 16 *and* 27.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last three years immediately preceding the date of his application to be examined

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

67. In Navigation.—In addition to the qualifications required for a Second Mate, an Only or First Mate must be able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and to be able to use and adjust the sextant,* and to find the index error by the sun; and also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relating to cyclones or revolving storms.

68. In Seamanship.—In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship and to keep a clear anchor, to carry out an anchor; how to manage a steam-ship in stormy weather, and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds, and the stowage of explosives. He must be able to describe the effects of the screw race upon the rudder; and the effect produced on the direction of the head of the ship by going [ahead] [astern] with a [right] [left] handed screw when the rudder is [ported] [starboarded]. He must also know how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, and lessen her lee drift. How to turn a steam-ship short round; how to get cast of deep sea lead in heavy weather, and other questions of a like nature appertaining to the duties of an Only and First Mate of a steam-ship, which the Examiners may think necessary to put to him.

Master.

69. A MASTER—Must be not less than twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Steam-ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a-half years must have been as Second or Only Mate in a Foreign-going Steam-ship, during the last twelve months of which he must have been in possession of a First Mate's Certificate. *See also paras.* 11, 12 *and* 17.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

70. In Navigation.—In addition to the qualification required for a Second, Only, and First Mate, he must be able

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* *See* Appendix B. † *See* Appendix I. ‡ *See* Appendix F.
Also page 24 foot-note ‡.

to compute the latitude from the meridian altitude of a star, he must be able to find the magnetic bearing from equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron * He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time, and to work out practically the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart.†

71. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct rafts and jury rudders suitable for a screw steam-ship. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of steam-ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends; or if disabled and on a lee shore. How to use steam appliances in the event of fire, and the best arrangement for towing vessels under different circumstances, placing ship in dry dock, directing repairs, and the mode of procedure if putting into port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter-party, bills-of-lading, Lloyd's agent, and as to the nature of bottomry; also bills-of-exchange, surveys, averages, &c., and answer any other questions of a like nature, appertaining to the management of a steam-ship, which the Examiners may consider it necessary to touch upon.

Service in Royal Navy.

Service in Royal Navy.

72. Officers of the Royal Navy are at liberty to apply for Certificates of service and to be examined for Certificates of Competency in the Mercantile Marine, but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty.

73 Officers of the Royal Navy desirous of being examined for Certificates of Competency in the Mercantile Marine will be required to prove the following service, of which twelve months must have been sea service under sail alone.

74. For Second Mate.—A Candidate must produce satisfactory evidence of four years' service at sea, or that he has attained the rank of acting Sub-Lieutenant.

75. For Only Mate.—A Candidate must prove five years' service at sea.

76. For First Mate or Masters.—A Candidate must show that he has attained the rank of Sub-Lieutenant, or Navigating Sub-Lieutenant.

Voluntary Examination in the Laws of the Deviation of the Compasses of Iron Ships.

Voluntary Examination of Masters and Mates in the Syllabus.

77. Any Master or Mate who wishes to pass a *voluntary* examination in the Syllabus* of examination on the Laws of the Deviation of the Compasses of an Iron Ship, &c., can at any time be examined upon filling up the form of application, and the payment to the Port Officer of the prescribed fee. If the candidate passes the examination successfully, an endorsement to that effect will be duly made upon the Master's or Mate's Certificate held by him.

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* *See* Appendices G and M. † *See* Appendix F. ‡ *See* Appendix A.

Failure.

Re-examination in case of failure

78. In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship* he will not be re-examined *until after a lapse* of SIX MONTHS. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government, should they see fit.

79. The Examiners in making out their report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also insert this information under Division II. in Form Exn. 2.*

80. If he fails three times in *Navigation* he will not be re-examined until after a lapse of THREE MONTHS from the date of the *last failure*.

Certificate of lower grade.

81. If a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a Certificate of a lower grade, he may, if he desires it, receive a Certificate of such lower grade.

82. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

83. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

84. If a Candidate fails in his examination for an ordinary Certificate, he may, if qualified, and upon payment of another fee, &c, be examined for a Certificate of Competency for Foreign-going Steam-ships without waiting the usual time after failure.

Fees.

85. Candidates for examination, in making their application on Form Exn. 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination, s. 133.

86. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months.

87. If a Candidate fail in his examination *no part of the fee will be returned to him.*

88. The fees are as follow:—

FOR "FOREIGN-GOING SAILING AND STEAM SHIPS."

	Rs.
Second Mate	12
First and Only Mate, if previously possessing an inferior certificate, either granted by the Board of Trade, or by the Government of a British Possession *under section* 8 *of the* "*Merchant Shipping (Colonial) Act*, 1869"	6
If not	12
Master	24
Where a Candidate is in possession of a Certificate for Fore and Aft rigged Vessels, for an Ordinary or Steam-ship Certificate of the same grade	12

* *See* Appendix H.

FOR "VOLUNTARY EXAMINATION IN STEAM."

	Rs
Mate (Only or First)	12
Master	12

FOR "VOLUNTARY EXAMINATION IN DEVIATION OF THE COMPASS."

	Rs.
Mate (Second, Only or First)... ...	12
Master	12

GENERAL.

89. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed

90. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate and the other shall be kept and recorded by the Port Officer of Calcutta

90A. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

General Instructions to Examiners and Candidates

Prohibited books and papers.

91. All instruments necessary for use in the examinations are supplied by the Government.

92. Before commencing the examination, the tables or desks must be cleared of all scraps of paper, or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document, or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present.

93. No instructors will be allowed on the premises.

Candidates not to leave premises during examination.

94. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a Candidate has occasion to visit the retiring room he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book, kept for the purpose, the exact time of his leaving and returning to the examination room. When only a few Candidates are under examination, two persons will not be allowed to leave the room at the same time.

Position of Candidates at examination.

95. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed.

Blotting paper

96. If any blotting paper is allowed it should be black; and when the first examination paper is issued each Candidate should be furnished with a piece which should be returned to the Examiner upon the completion of the last paper.

How examination papers should be issued.

97. The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems. It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed.

In certain cases problems may be corrected on morning following examination day.

98. When from the large number of the Candidates, it may be found impossible to look over the work, on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Re Exn 4A

99. The paper (Exn. 4A) is only for those Candidates who present themselves for examination for the first time. It is intended not only to ensure on the part of the Candidate a knowledge of the meaning of a variety of terms of great use to the Navigator respecting which much ignorance exists at present, but at the same time to test his handwriting and spelling.

100. In using this paper, the Examiner will place a mark against the numbers of the particular questions which he selects for answers, and not less than ten questions should be selected. The Candidate will then write against the questions so marked his definition of the terms in a clear and legible hand, so as to prevent the possibility of any letter being mistaken. Attention should be paid to the spelling and writing of all grades of Candidates. The *supplementary viva voce* test should also be applied as usual.

Re-questions on Deviation of the Compass. (Exn 7, Appendix G.)

101. In the questions on Deviation of the Compass (Exn. 7, Appendix G) the Examiner should indicate by a mark against at least twelve of the questions for answers, and those indicated must be correctly answered. The selected questions should be varied frequently, and no two Candidates should have precisely the same questions. The Candidate should be furnished with sheets of blank ruled paper which is supplied for that purpose with instructions that he is to write only on one side of the paper, and to answer each of the questions against which a mark is placed in a clear and legible hand, and to commence each answer by writing down the number of the question to which it relates in the margin left for that purpose. In answering question 19, besides giving a full explanation in writing, of the *tentative* method* of compass adjustment (accompanied by the usual *supplementary viva voce* test), the Candidates should be required to illustrate by diagrams how the poles of the magnets are placed with regard to the compass needle for correcting the semi-circular deviation, as well as the heeling error, and also how the soft iron should be placed for correcting the quadrantal deviation, or the Candidate may be tested by "Beall's Compass Deviascope," in which case it will not be necessary for him to give the written answer and sketches.

Viva voce examination.

102. In the *viva voce* examination a reasonable time should be allowed for the Candidate to give his answers. No assistance should be given or leading question put.

Adjustment of sextant.

103. Particular attention should be paid to the adjustments of the sextant, and the written answers should be given on the ruled paper in the same manner as the answers to the questions on Exn. 7, and the *supplementary viva voce* test applied as usual. Every Candidate should have a practical knowledge of what is known as the first three adjustments, and be able to read correctly *off* the arc, a supposed index error to be given by the Examiner as additive, as well as reading *on* the arc in the usual way.

Minor corrections.

104. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate they will not be considered complete.

Examination to commence with that for Second Mate.

105. In every case the Examination, whether for Only Mate, First Mate, or Master, is to commence with the problems for Second Mate.

Problems required as tests.

106. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

107. The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

Time allowed for working problems.

108. *Candidates for Second Mates' Certificates of Competency* must complete the whole of their Examination in Navigation in *eight hours*, including the time allowed for writing the definitions (Exn. 4*a*), the paper on the adjustment of the sextant, and the correction of *all* errors and oversights; but

* See Appendix M.

the nautical problems on Forms "Exn. 4" and "Exn. 5" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

109. *Candidates for Only and First Mates' Certificates* must complete the whole of their examination in Navigation in *twelve and-a-half hours*,* including the time allowed for the papers on the sextant; the chart; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the nautical problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

110. *Candidates for Certificates as Masters,' Ordinary*, must complete the whole of their examination in Navigation in *fifteen hours*; including the time allowed for the papers on the sextant; the chart; compass deviation; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6," must be completed within *six hours*, and without the Candidates leaving the premises during that period

111. *Candidates after finishing the problems required of the respective grades* on the first day of examination should proceed, until the end of that day, with such subjects as the definitions, sextant, chart, and Question 19 of Form "Exn. 7."

112. *The Sumner Problem* (*Exn. 6a*) must on no account be given out to any of the grades on the first day of the examination, but should be the commencement of the Candidate's work on the second day, and on completion of this problem the Candidates for Masters' Certificates should proceed with the problems on paper "Exn. 7."

113. *Candidates for Foreign-going Steam-ship Certificates of Competency* will be allowed the same amount of time to perform their navigation, &c., as hereinbefore laid down for the respective grades for the Ordinary Foreign-going Certificates.

114. *Deviation of the Compass.*—A period not exceeding eleven hours will be allowed to Candidates for the completion of the whole of the examination in the Syllabus, including the correction of all errors and oversights in both the problems and writings.

Additional time allowed in special cases.

115. Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed, the Candidate will be declared to have failed, unless the Port Officer or the Examiner see fit to lengthen the period in any special case If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lenthening the period, together with the time allowed, must be reported to the Government by the Examiners, in the column for "remarks" on the Form Exn 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *viva voce* part of the examination.

116. It is anticipated that but few of the Candidates for Certificates of Competency for any of the foregoing grades will require the whole of the time herein allowed for completing their Examination in Navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear, and legible manner, and to the entire satisfaction of the Examiners.

Degree of Precision required in the Solution of the Problems.

117. In order to prevent any misapprehension as to the degree of precision required by the Regulations in working out the various problems in the Examinations for Masters' and Mates' Certificates, the attention of Examiners and Candidates is particularly directed to the following Instructions:—

(*a.*) Candidates are expected to work out their answers to all problems within or not to exceed a margin of *one mile of position* from a correct result (*e.g.*, in problems where the answer required is a latitude, longitude, or distance), excepting in finding the

* A Candidate other than Second Mate who may not previously have passed an examination may be allowed the time occupied in writing his definitions on Exn. 4a, in addition to the above.

ship's position by "Sumner's" method, where a margin of 2½ miles will be allowed.

(*b.*) In such problems as the "Amplitude" and "Alt-Azimuth," where the bearings, deviations, &c, only are required, a margin of 2′, or 3′, from a correct result will be sufficiently accurate

(*c.*) In no problem is the Candidate for an "ordinary" Certificate required by the Regulations to correct for *second differences* in taking out the quantities from the Nautical Almanac.

(*d.*) In solving the "Time Azimuth" problem, an answer not exceeding half a degree from the exact result will be sufficiently near. But in all cases the actual latitude, declination, and time used, together with the exact bearing (from the North or South) as given in the tables, must be clearly shown by the Candidate on his papers.

(*e.*) In interpolating for the correct deviation to be applied in solving the Chart question, Papers "Exn. 9 C." and "Exn. 9 D," it will usually be sufficiently near if the Candidate works throughout with the nearest degree of deviation taken from the "Deviation Card," and even in cases where the deviations may vary but little, the nearest half degree used throughout will be sufficiently precise, and will at the same time prove whether the Candidate understands the method of arriving at the amount of, and applying, deviations. It is not necessary that the Candidate should waste his time in solving the course to *odd minutes* as is sometimes done.

(*f.*) In calculating the correction to apply to the Soundings, Question 5 of Paper "Exn 9 D," the Candidate is not required to work out to the exact inch, as is sometimes done. It will be sufficiently near if he brings his answer within half a foot or so of a precise result.

It must be clearly understood in reading the foregoing Instructions that it is always provided the work of the Candidate is correct in principle.

Supplementary vivâ voce *Examination on written Papers.*

118 An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e.g.*, *Forms Exn.* 4*a*, *Exn.* 7, *Exn.* 9*a*, *Exn* 9*c*, *Exn.* 32 70, *&c.*), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

119. Lest, therefore, such an impression should prevail, Candidates for Certificates of Competency should bear in mind that they are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescibed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

120. This result may be easily attained by the Examiner putting a few *vivâ voce* questions to the Candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him possesses) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

121. When an Examiner finds it necessary to fail a Candidate in this *supplementary vivâ voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e.*, *the identical questions and the identica*

answers given, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

122. If the Candidate passes, he will receive the Form Exn. 16, upon which the Government, will issue the Certificate to the candidate, whose testimonials, &c., will be returned at the same time. Form Exn. 16 Completion of examination

Special Notice to Candidates.

123. The attention of Candidates is specially called to the following Regulations :—

124. Candidates are required to appear at the examination-room punctually at the time appointed.

125. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re-examination for a period of three months.

126. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him. He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

127. In the event of any Candidate being discovered referring to any book or memoranda. copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination or copying any part of the problems for the purpose of taking out of the Examination rooms, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

128. No Candidate will be allowed to work out his problems on a slate or on waste paper.

129. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

130. Candidates will find it more convenient both here and at sea, to correct the declination and other elements from the Nautical Almanac by the "hourly differences" which have been given in that work in order to facilitate such calculations ; they will thereby render themselves independent of any proportional or logarithmic table for such purpose.

131. The corrections by inspection from tables given in some of the works on Navigation will not be allowed (*see* Tables IX, XI and XXI in Norie's Epitome, &c.) ; every correction must appear on the papers of the Candidates.

132. Any candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his Certificate for such period as the Government may direct

133. For rules as to amount of time allowed to perform the work, *see* page 36.

Masters' and Mates' Voluntary Examinations in Steam.

134. These examinations are limited to Masters and First or Only Mates who are possessed of or entitled to Certificates of Competency, and are provided for the purpose of giving them an opportunity of undergoing a voluntary examination as to their practical knowledge of the use and working of the steam engine. They are conducted under the superintendence of the Port Officer at such times as they may appoint for the purpose ; and the Examiners are selected by the Government from the Engineer-Surveyors appointed under the Indian Steam Ships Act, 1884. *Voluntary Examinations in Steam.*

135. Any Master or Mate desiring to be examined in Steam must deliver to the Port Officer a statement in writing to that effect, upon the Form of Application (Exn. 2), and the applicant's Certificate of Competency must be delivered to the Port Officer along with his statement. If he is about to pass an examination for a Certificate of Competency at the same time, the applications should be sent in together. Application, how to be made. Exn. 2.

136. A fee of Rs. 12 must be paid by the applicant for the examination *in Steam*, and the Port Officer will thereupon inform him of the time and place at which he is to attend to Fee to be pai Conduct of examination, &c.

be examined, and the examination will then and there proceed in the same manner as the other examinations. If the applicant fails, and has given in his Certificate, it will be at once returned to him.

Record of Certificate. Exn. 14.

137. If the applicant passes, the Report (Exn. 14.) and the Certificate of Competency with the Form (Exn. 2.) will be sent to the Government; the words "*Passed in Steam,*" with the date and place of examination, will then be entered on the Certificate and its counterpart, and the Certificate will be sent to the Port Officer to be delivered to the applicant in the usual manner.

Failure.

138. If the applicant fails he may not present himself for re-examination until the expiration of three months from the date of failure.

Extent of examination.

139. The examination is for the most part *vivâvoce*, and extends to a general knowledge of the practical use and working of the steam engine, and of the various valves, fittings, and pieces of machinery connected with it. Intricate theoritical questions on calculations of horse-power or areas of cylinders and valves, or any of the more difficult questions which appertain to steam engines and boilers, will not be asked. The examination will in fact be confined to what a Master of a steam-vessel may be called upon to perform in the case of the death, incapacity, or delinquency of the engineer.

140. Examiners are to be careful in their examinations to satisfy themselves that applicants really do know the names and uses of the various parts of engines and boilers, and their connecting pipes, valves, cocks, &c. Practical knowledge, as distinguished from theories, abstruse calculations, and book learning, is to be the test of the applicant's fitness to have his Certificate indorsed.

Where examination to be conducted

141. The Examiner should arrange to conduct part of the examination in the engine-room of a Steam-ship, unless from circumstances he finds it impossible to do so; and if an oppportunity offer the applicant should be permitted, under the guidance of the Examiner, to start and stop the engine of some vessel which may have her steam up.

142. The Examiner, in sending in his report of examinations of Masters and Mates in steam, should state where the examination has been held.

Examination in elementary questions.

143. Candidates will be required to give written answers to sixteen out of twenty questions taken from a book of Elementary Questions pulished by the Government.* These questions will be altered from time to time without notice. The twenty questions are not to be difficult, theoretical, or book questions, but are to be such as any man of ordinary capacity ought to answer who has any "*practical knowledge of the use and working of the steam-engine.*"

Answers to be sent to the Board of Trade.

144. These questions, with the Candidate's answers, should be sent to the Government, with the reports, after each examination

145. These answers will also assist in enabling the Government to decide any question that may hereafter arise in cases where it is alleged that applicants have been improperly passed, or improperly rejected.

Candidates referring to books, &c., to be put down as failed.

146. The Examiners will be careful that if any Candidate refers to any book or paper or memorandum, or obtains information from another Candidate during the examination, he will be treated as having failed, will forfeit his fee, and will not be allowed to be re-examined for a period of three months.

In cases of failure Examiner to report questions that decided it.

147. The Examiners will report in the case of failure, the nature of the question or questions that decided the failure, or the point in the management of the engine in which the Candidate was deficient.

Service on board Steam-Ship unnecessary.

148. There is nothing in the Regulations requiring that applicants for the voluntary examination shall have served on board Steam-Ships; all that is required is that they shall have a "practical knowledge." Examiners will, of course, not fail to appreciate the fact, when passing applicants, that practical knowledge is best gained in the engine-room; and the examination of an Officer who does not produce official evidence of service in Steam Ships, and of experience of engines, must necessarily be more searching than in the case of one who produces evidence of such service and experience.

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* See Appendix. Q.

APPENDIX A.

N.B.—*The Candidate is to write a short definition against as many of the following terms as may be marked with a cross by the Examiner. The Examiner will not mark less than* 10. *The writing should be clear, and the spelling should not be disregarded.*

1. The Equator.
2. The Poles.
3. A Meridian.
4. The Ecliptic.
5. The Tropics.
6. Latitude.
7. Parallels of Latitude.
8. Longitude.
9. The Visible Horizon.
10. The Sensible Horizon.
11. The Rational Horizon.
12. Artificial Horizon and its use.
13. True Course of a Ship.
14. Magnetic Course.
15. Compass Course.
16. Variation of the Compass.
17. Deviation of the Compass.
18. The Error of the Compass.
19. Lee Way.
20. Meridian Altitude of a Celestial Object.
21. Azimuth.
22. Amplitude.
23. Declination.
24. Polar Distance.
25. Right Ascension.
26. Dip or Depression of the Horizon.
27. Refraction.
28. Parallax.
29. Semi-diameter.
30. Augmentation of Moon's Semi-diameter.
31. Observed Altitude.
32. Apparent Altitude.
33. True Altitude.
34. Zenith Distance.
35. Vertical Circles.
36. Prime Vertical.
37. Civil Time.
38. Astronomical Time.
39. Sidereal Time.
40. Mean Time.
41. Apparent Time.
42. Equation of Time.
43. Hour Angle of a Celestial Object.
44. Complement of an Arc or Angle.
45. Supplement of ditto.

APPENDIX B.

Adjustments of the Sextant.

The Applicant will answer in writing, on paper which will be given him by the Examiner, all the following questions, numbering his answers with the numbers corresponding to the questions :—

Question.

1. What is the first adjustment of the sextant ?
2. How do you make that adjustment ?
3. What is the second adjustment ?
4. Describe how you make that adjustment ?
5. What is the third adjustment ?
6. How would you make the third adjustment ?
7. In the absence of a screw how would you proceed ?
8. How would you find the index error by the horizon ?
9. How is it to be applied ?
10. Place the index at error of minutes to be added, clamp it, and leave it.

(Note.—The Examiner will see that it is correct).

11. The Examiner will then place the zero of the vernier on the arc, not near any of the marked divisions, and the Candidate will read it.

Note.—In all cases the applicants will name or otherwise point out the screws used in the various adjustments.

(*The above completes the Examination of Second Mates.*)

Candidates for Only Mates', First Mates', and Masters' Certificates will be required to give, in writing, replies to the following questions, *in addition* to those required of Candidates for Second Mates' Certificates as above.

1. How do you find the index error by the Sun ?
2. The readings being { } What is the Index Error, and how do you apply it ?
3. What proof have you that those measurements or angles have been taken with tolerable accuracy ?

APPENDIX C.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency.

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee* of 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book*. The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose *(always taking care first to show the Ensign and the Code Pennant at the Gaff)*,* questioning the Candidates as to the distinguishing Forms of the respective Hoists (*See Plate annexed)*, which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I.

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships*.

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist.

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not in the Vocabulary of the Code.

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal,) the three symbols used for Distant Signalling, viz. a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

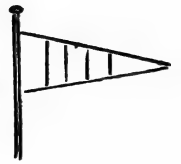
The International Code is used on board Her Majesty's Ships and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

Note.—The International Code of Signals, with the Code List, as prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswood & Co., 54, Gracechurch Street, London, and the principal Booksellers at the various ports.

The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner, price 12*s*.

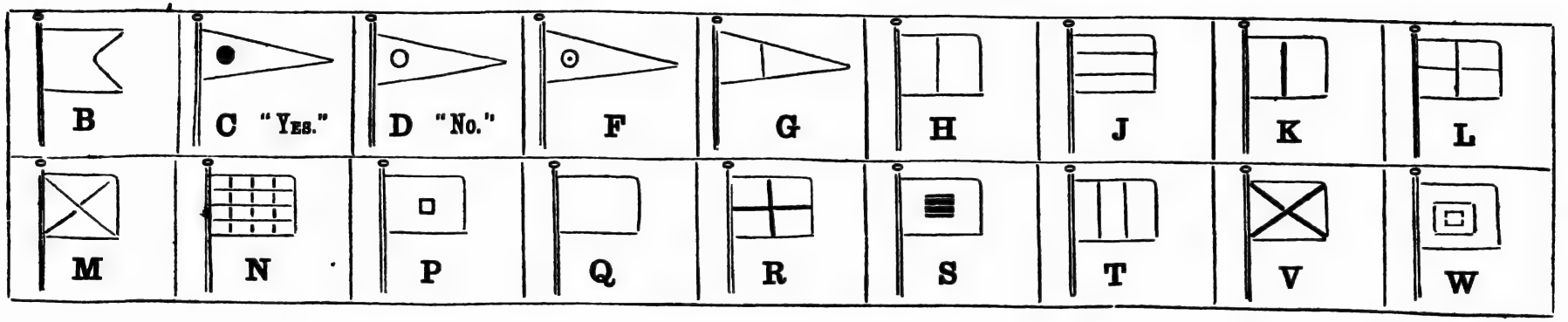
* The object of this is, of course, to distinguish the Signals from those o another Code.

FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

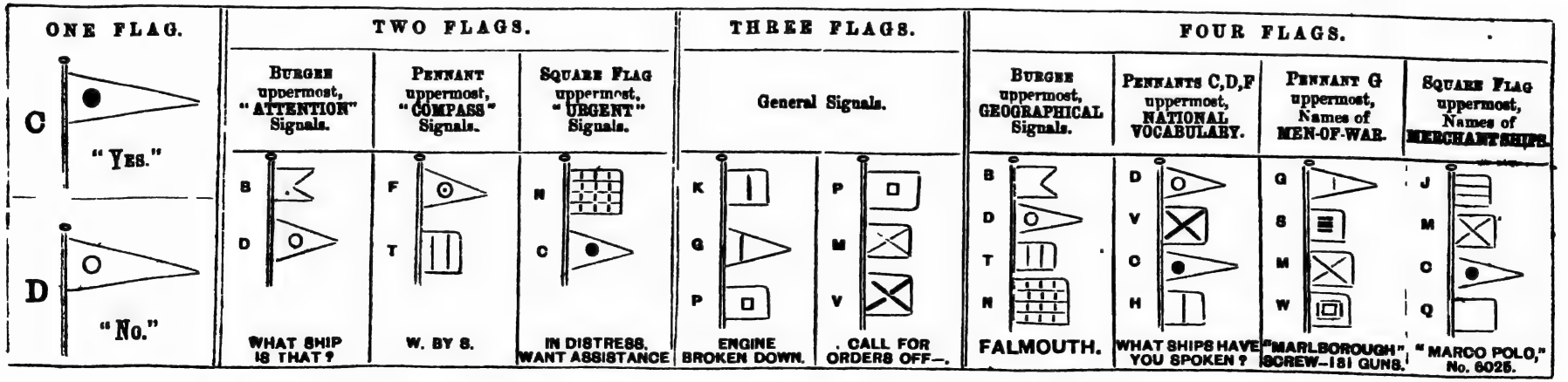


"CODE SIGNAL" AND "ANSWERING PENNANT."

N.B.—When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—



APPENDIX D.

Regulations respecting Lights and Fog Signals and Steering and Sailing Rules Issued by the Board of Trade.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of Examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked ; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

Thomas Gray,
Assistant Secretary.

Board of Trade,
Marine Department.

Heads of Examination in Regulations respecting Lights and Fog Signals and in the Steering and Sailing Rules.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor ?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor ?

The same as for sailing vessels.

3. Where is the anchor light to be exhibited ?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted ?

It may be exhibited at any height where it can best be seen not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations ?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show ?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible ?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night ?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them.

9. Of what colour are these lights, and how are they to be placed on board the ship ?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh ; and over how many points of the compass, and in what directions, and how far, are they required to show ?

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass ; so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively

and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night?

The same.

12. Are the side-lights required to be fitted with screens; and if so, of what length, and how?

Yes, on the inboard side; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam ships when under steam at night?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show?

Over 20 points, viz., from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens; and if so, of what length?

The green and red lights are to be fitted with screens on the inboard side, extending at least three feet forward from the light, as in the case of sailing vessels.

17. Over how many points of the compass, in what directions, and how far, are the coloured side-lights of steamers required to show?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, *i.e.*, from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases?

Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net register required to carry when under way, and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast-head light, similar to those carried by other steam-ships; or

(*b*) They must carry on or in front of the foremast-head, and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry?

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast-head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance not less than three miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28. If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signals as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart: the highest and lowest of these lights shall be red and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same

position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast-head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by bellows or other mechanical means, and also with an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam-ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 18 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard.

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.:—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing, or it may be a steam trawler end on, or within 2 points of being end on, to me.

49. If you see a green, or a red, light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance, fog, &c., or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing traveller engaged in trawling (1) under one arrangement of lights heading so that her side-lights or obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail.

53. How do you know?

Because there is no white mast-head light.

54. If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and a red ball on it, and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B. Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56. If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W.N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.-E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case; and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the position indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light, or a red light to a green light, the ships carrying the lights are crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to starboard. If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70. A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When the by rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75. Is there any general direction in the steering and sailing rules; and if so, what is it?

Yes, it is this: that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———)?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default

by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply ?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of there gulations, who is to be deemed in fault for the collision ?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels ?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers ?

Yes: unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only ?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*) of Article 10, which apply to only British fishing vessels.

83. Do you know where the present regulations are to be found ?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision ?

Yes.

85. What is the penalty for default ?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance ?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship ?

It is.

88. Why ?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence ?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

Regulations for preventing collisions at sea. Order in Council of 11th August 1884.

Preliminary.

Art. 1, In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship ; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

Rules concerning Lights.

Art. 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass ; so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side ; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the

horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the starboard side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the port side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the port side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a*.) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of, but not lower than, her foremast-head, three black balls or shapes, each two feet in diameter.

(*b*.) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart: the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c*.) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way, shall carry them.

(*d*.) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art. 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but

shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art. 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre :—

(*a*) All fishing vessels and fishing boats of 20 tons net registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this Article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* . A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the

* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*c*) A steam-ship and a sailing ship, when not under way shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This Article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art. 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art. 23. In obeying and construing these rules due regard shall be had to all dangers of navigation; and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art. 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation.

Art. 25. Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art. 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute.
2. The International Code signal of distress indicated by N C.
3. The distant signal, consisting of a square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute.
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.).
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft

the beam on the port side: and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885.—Sailing Trawlers of any Tonnage.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December, 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night with a clear atmosphere for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

Aids to Memory in four verses, by Thomas Gray.

1 *Two Steam-ships meeting.*

When both side-lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN TO GREEN——or, RED TO RED——
Perfect safety——Go ahead!

3 *Two Steam-ships crossing.*

Note.—This is the position of greatest danger: there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear;
To act as judgment says is proper:—
To port—or Starboard—Back,—or, Stop her!

But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do,
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out;
In danger, with no room to turn,
Ease her, stop her, go astern.

14th October 1867.

APPENDIX E.

Distress and Pilot Signals.

The following sections, together with the schedules referred to therein, of the "Merchant Shipping Acts Amendment Act, 1873," relate to Signals of Distress and signals for Pilots. (*See also* "*Regulations for preventing Collisions at sea.*" *Article* 27.)

M. S. Act, 1873.

18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress.

Signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots.

19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this Act.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals.

20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act, or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.

Signals of Distress.

In the day-time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the day-time:—

1. A gun fired at intervals of about a minute;
2. The International Code signal of distress indicated by N C;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.

Signals to be made by Ships wanting a Pilot.

In the day-time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day-time, viz.—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX F.

Examination in Chart.

For all Grades where the Chart is used.

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart* whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemisphere.]

* The terms "true" and "magnetic" are used for the sake of brevity and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" point of the compass respectively.

1. Using deviation [card] [curve*] No. , find the course to steer by compass from to ; also the distance.

Answer.—Compass course °

Distance °

Variation °

Deviation °

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude °

Longitude °

3. With the ship's head as above, a [point] [light-house] bore by compass , and after continuing on the same course miles it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude °

Longitude °

Distance °

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature °

Date °

Chart used °

Additional for Masters.

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course °

Distance °

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand, nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

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* A Candidate for a Master's Certificate is expected to use either a card of deviations or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him.

APPENDIX G.

Deviation of the Compass.

N. B.—*The Examiner will not mark less than* 12 *of the following questions, which must be correctly answered by the candidate, and the Examiner's attention is specially called to the importance of Questions* 7, 8, 9, 10, *and* 19, *which should be marked in all cases.*

1. What do you mean by Deviation of the Compass?
2. How do you determine the deviation (*a*) when in port, and (*b*) when at sea?
3. Having determined the deviation with the ship's head on the various points of the Compass, how do you know when it is easterly and when westerly?
4. Why is it necessary, in order to ascertain the deviations, to bring the ship's head in more than one direction?
5. For accuracy, what is the least number of points to which the ship's head should be brought?
6. How would you find the deviation when sailing along a well-known coast?
7. In the following table give the correct magnetic bearing of the distant object, and thence the deviation:—

Ship's head by Standard Compass.	Bearing of distant object by Standard Compass.	Deviation required.	Ship's head by Standard Compass.	Bearing of distant object by Standard Compass.	Deviation required.
North N.-E. East S.-E.			South S.-W. West N.-W.		

8. With the deviation as above, give the courses you would steer by the Standard Compass to make the following courses, correct magnetic [ ].
9. Supposing you have steered the following courses by the Standard Compass, find the correct magnetic courses made from the above deviation table [ ].
10. You have taken the following bearings of two distant objects by your Standard Compass as above; with the ship's head at , find the bearings, correct magnetic [ ].
11. Name some suitable objects by which you could readily obtain the deviation of the Compass when sailing along the coasts of the English Channel.
12. Do you expect the deviation to change; if so, state under what circumstances?
13. How often is it advisable to test the accuracy of your table of deviations?
14. State briefly what you have chiefly to guard against in selecting a position for the Compass.
15. The Compasses of iron ships are more or less affected by what is termed the heeling error; on what courses does this error vanish, and on what courses is it the greatest?
16. State to which side of the ship, in the majority of cases, is the North point of the Compass drawn in the Northern Hemisphere; and what effect has it on the assumed position of the ship when she is steering on Northerly, and also on Southerly courses?
17. The effect being as you state, on what courses would you keep away, and on what courses would you keep closer to the wind, in order to make good a given Compass course?
18. Does the same rule hold good in both hemispheres with regard to the heeling error?
19. Your Steering Compass having a large error, how would you proceed to correct that Compass by compensating magnets and soft iron, in order to reduce the error within manageable limits?

APPENDIX H.

Syllabus of Examination in the Laws of the Deviation of the Compasses of an Iron Ship, and in the Means of compensating or correcting it.

Candidates for the voluntary examination in Compass Deviation, and also for Extra Masters' Certificates, will be examined in the whole of this syllabus, and will be required to answer all

the questions correctly, and to the entire satisfaction of the Examiner.

1. Describe an artificial magnet, and how a steel bar or needle is usually magnetized.

2. [*For the sake of simplicity it is desirable to adopt the nomenclature of the Astronomer Royal, and call that pole of the compass needle that points to the magnetic north the red, and the other the blue pole.*] What effect has the pole of one magnet of either name on the pole of the same name of another magnet, and what would be the consequence of the pole of one magnet of either name being brought near enough to affect the pole of contrary name, if in these cases both magnets were freely suspended ?

3. By applying this law to all magnets, natural as well as artificial, show what would be the result on a magnetic bar or needle, freely suspended, but by weight or by the nature of its mounting constrained to preserve a horizontal position ; and what result, if so mounted, but free to move in every direction, the earth being regarded as a natural magnet ?

4. Which is the red magnetic pole of the earth, and which the blue ?

5. What is the cause of the variation of the compass ?

6. What is meant by the deviation of the compass ?

7. Describe the sub-permanent magnetism of an iron ship, and state when and how it is acquired, and which is the sub-permanent red, and which is the blue pole, and why it is called sub-permanent magnetism.

8. What is meant by " the composition of forces" and " the parallelogram of forces," and show how the knowledge of these is valuable in ascertaining and compensating the sub-permanent magnetism of an iron ship ?

9. Describe the co-efficients B and C, plus (+), and minus (—), and why they are said to produce semi-circular deviations.

10. On what points by compass bearing of the ship's head does + B give westerly deviation, and on what does it give easterly ; and also on what point does — B give westerly, and on what points easterly ?

11. On what points does + C give westerly, and on what points easterly ; also on what points does — C give westerly, and on what points easterly deviation ?

12. How would you compensate the co-efficient C ?

13. How would you compensate the co-efficient B ?

14. If the value either of co-efficient B or C be given, also the magnetic direction of the ship's head while she was being built, how by the traverse tables would you determine the approximate value of the other co-efficient C or B ; and if the value of both these co-efficients be given, how would you determine approximately the direction, by compass, of the ship's head whilst being built ?

15. What is meant by transient induced magnetism ?

16. Under what circumstances does induced magnetism give semi-circular deviation ?

17. How would you compensate — B resulting from induced magnetism, and why for this purpose would you adopt a different mode of compensation to that employed in correcting — B produced by sub-permanent magnetism ?

18. Describe quadrantal deviation, and state what co-efficients represent it ; also on what points of the ship's head, by compass, each of these co-efficients gives the greatest amount of deviation.

19. On what points of the compass will each of these co-efficients, D and E + and —, give easterly, and on what points westerly deviation ?

20. Generally + D gives the greatest amount of *quadrantal* deviation : how should it be compensated ?

21. If D be compensated in the manner you have described, will it remain so in every latitude ? If so, state the reason why.

22. What conditions of the iron of a ship will produce + D and what — D ?

23. Describe the nature of the deviation resulting from + A and —A, and describe the error in the construction of the compass that frequently produces them.

24. Under what circumstances does the character of A and E so change as to render it desirable that these co-efficients should be disregarded or modified ?

25. The value of A, B, C, D, and E being given, or B, C, and D only, find the deviation on any required point of the compass, or construct a table of deviation, if required.

26. Describe how you would determine the deviation by means of a distant object, by reciprocal bearings, or by the figures on the dock walls.

27. If it be required to determine the deviation of two or more compasses, it is most convenient to bring the ship's head, *correct* magnetic, on as many points as may be necessary. To determine the co-efficients B, C, and D, the bearing of the ship's head by each compass is required. How would you for this purpose employ a Graphic Method?

28 State your rule for determining whether deviation is easterly or westerly.

29. Describe the use of the "dumb card," or an azimuth card without a needle, in compensating a compass.

30. If you determine the deviation by an azimuth or an amplitude of a heavenly body, it is then combined with variation,* which together is sometimes called the *correction* for the compass. State when the deviation is the difference between the variation and the *correction*, and when the sum; and when it is of the same name as that of the *correction*, and when of the contrary name.

31. In observing azimuths of heavenly bodies, the best method is by "time azimuths," since these can be observed without an altitude when the ship is in port, or the horizon cannot be defined from any cause. Given the sun's declination, the hour of the day, and the latitude to find the true bearing of the sun.†

32. By night, if it be desirable to observe the *correction* of the compass. Given the day of the year, and time at ship, also the latitude of the place to determine what† star will be in good position for this purpose.

33. If your correcting magnets are so mounted that their positions can be altered, describe the process by which, on open sea, you can place the ship's head correct magnetic N. (or S.), and correct magnetic E. (or W.), and can make the correction perfect.

34. Given the name of a star, the time, the place of ship, the variation of the compass, and the bearing of the star by compass. Determine the deviation, and name it east or west.

35. If an ordinary standard compass placed higher than the iron top sides be compensated whilst the ship is upright, what coefficient will be effected by heeling?

36. When generally will this co-efficient be plus, and when minus?

37. State the exceptions to this general rule.

38. Does the heeling error arise from the altered position of the sub-permanent poles of the ship, or from a change in the induced magnetism?

39. To what extent is the heeling error altered by a change in the magnetic latitude of the ship?

40. If a ship is beating to windward; when she tacks, under what circumstances will the heeling error retain the same name, and under what circumstances will it take the contrary name?

41. If a ship is placed on the opposite tack by the change of wind, the ship's course being the same by compass, will the heeling error change its name?

42. Under what circumstances will the heeling error, if disregarded, take the ship to windward, or when to leeward?

43. Can the heeling error be compensated? If so, state the means to be employed.

44. Can the compensation of the heeling error be depended on in every latitude? If not, state the reason.

45. Given the heel, the direction of the ship's head by compass, and the heeling error observed, to find the approximate heeling error, with a greater or less given heel, and with the ship's head on some other named point of the compass, the ship's magnetic latitude being in both cases the same.

46. Describe any instrument to show the ship's heel (generally called a clinometer), and state how and where it should be fixed.

47. Should the clinometer be observed when the ship is swung to determine the deviation when the ship is upright? If so, state the reason why.

APPENDIX I.

Particulars of Examination in Sumner's Method by Projection.

Candidates are required to compute their longitude by chronometer worked with two assumed latitudes.

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* The magnetic variation is best determined by a chart of the curves of equal magnetic variation.

† The process of finding time azimuths by the ordinary formulæ of spherical trigonometry is tedious, and since on board an iron ship these observations should be often repeated, the candidate will be allowed to use any table or graphic or linear method that will solve the problem within a half of a degree, the altitude of the heavenly body not being given.

They are to mark off on the chart the two positions ascertained by the first altitude, and are then to connect them with a straight line, termed the *line of position*, or the line of equal altitude, which will show the bearing of any land it may intersect.

They will then be required to correct the first *line of position* for the ship's change of station, in the interval between the two observations, to project the *line of position* corresponding to the second observation on the chart, showing by its intersection with the first *line of position*, as corrected for change of station, the position of the ship at the time of the second observation.

The longitudes corresponding to the two latitudes by the second observation are no longer furnished by the Examiners. The candidates are consequently required to work out the whole of the problem for themselves (in place of the explanation recently required), and must be prepared to find the sun's true bearing by projection at the time of taking either the first or second observation; and when necessary to produce the *lines of positions* on the chart in order to make them cut one another should the position of the ship happen to be outside the parallels of the two assumed latitudes given in the question. Outline charts, extending from 46° to 49° and from 49° to 52° of latitude, respectively, are furnished by the Board of Trade to the different examiners for this purpose.

APPENDIX K.

The Candidate must answer in writing, on paper supplied to him by the Examiner, the following questions, numbering the answer to correspond with the questions.

Question—

Questions relating to cyclones or revolving storms common in tropical seas.

1. The direction of the wind in a cyclone being*_____ state the probable bearing of its centre from the ship in the*_____ Hemisphere.
2. And suppose that the wind during the passage of the same cyclone were found to change towards the*_____ _____, what would be the ship's position with reference to the line of progression of the centre of the cyclone, and what action would you take?
3. Under what conditions would the change in the direction of the wind in the cyclone be the reverse of the above?
4. What are the usual indications of a ship being on the line of progression of the centre of a cyclone?
5. What are the usual indications that a ship is (*a*) approaching the centre of a cyclone; (*b*) receding from it?
6. Describe the track usually taken by cyclones in the †_____, and state the seasons of the year in which they most frequently occur in that region.

APPENDIX L.

Instructions to Examiners.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follows:—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

* These spaces to be filled in by the Examiners, and frequently varied.

† The Examiners to fill in whether North Atlantic, Bay of Bengal, China Seas, Indian Ocean, &c., &c.

(*d*) Cards, five of each as follow :—

1. White.
2. Black.
3. Red.
4. Pink.*
5. Green.
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (*Cards.*)

In conducting the examination by daylight, the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the daylight test.
2. If the candidate hesitates in any of his answers, so as to raise a doubt in the mind of the examiner as to his ablity to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that, they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

Examination by artificial Light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn, and at least 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour; and if so, what colour?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star * is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c.; or to name card No. 7 as red, green, or yellow; or glass No. 2 as green, blue, or yellow; or glass No. 5 as red, pink, salmon, &c.; or glass No. 7 as bright red or bright green; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

APPENDIX M.

Instructions to Examiners.

Compass Adjustment.

It is of the utmost importance that masters of ships should thoroughly understand the tentative method of Compass Adjust-

ment as generally practised in merchant ships, and Examiners are therefore directed to fully satisfy themselves that all Candidates for Masters' Certificates have this particular knowledge. It should be tested in connexion with the Form of Examination, "Exn. 7," or it may be tested by Captain Beall's "Deviascope" at those ports which have been supplied with this instrument. Where the "Deviascope" is used it will not be necessary for the Candidates to give the written answers and sketches illustrative of the Question 19 of Form Examination 7.

A concise statement of the present method of tentative Compass Adjustment is forwarded for the use of Examiners. The Government wish them, however, distinctly to understand that the Government are not in any way advocating the correction of that part of co-efficient B which arises from vertical induction in soft iron by a permanent magnet instead of by a soft iron bar. The Government have no authority to interfere with the methods in use amongst Compass adjusters for the adjustment of Compasses in iron ships, but instruct the Examiners to satisfy themselves that masters are acquainted with the ordinary method as at present practised.

The examination by the "Deviascope" is at present only experimental, and no Candidate should be reported as having "failed" who does not pass the examination in it, provided he has answered satisfactorily the Question 19, "Exn. 7."

The "Deviascope" is sent only to three ports at present, and its extended use will depend upon experience at those ports.

The TENTATIVE METHOD of COMPASS ADJUSTMENT as generally practised by COMPASS ADJUSTERS in SHIPS of the MERCANTILE MARINE.

Before describing the practice it will be as well to briefly state the co-efficients used to express the different magnetic forces:—

Co-efficient	A	represents	a constant quantity.
„	B	„	semi-circular deviation due to fore and aft magnetic forces.
„	C	„	semi-circular deviation due to transverse magnetic forces.
„	D	„	quadrantal deviation due to horizontal induction in soft iron.
„	E	„	quadrantal deviation due to horizontal induction in soft iron unsymmetrically distributed.

SIGNS and EFFECTS of CO-EFFICIENTS A, B, C, D, and E.

Co-efficient A represents a constant deviation of the same nature and amount, on all points of the compass; + A signifying easterly, and — A, westerly deviation.

Co-efficient + B represents an attraction towards the ship's head, and causes easterly deviations with ship's head in the eastern semi-circle of the Compass, and westerly deviations in the western semi-circle, attaining a maximum value on the east and west points, decreasing to zero on north and south points, by Compass.

Co-efficient — B represents an attraction towards the ship's stern, and causes easterly deviations with ship's head in the western semi-circle, and westerly deviations with the ship's head in the eastern semi-circle, with a maximum value on the east and west points, decreasing to zero on the north and south points, by Compass.

Co-efficient + C represents an attraction towards the starboard side of the ship, and causes easterly deviations with ship's head in the northern semi-circle, and westerly deviations in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient — C represents an attraction towards the port side of the ship, and causes westerly deviations with ship's head in the northern semi-circle, and easterly in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient + D gives easterly deviations with ship's head between N. and E. and S. and W., and westerly deviations between S. and E. and N. and W.

Co-efficient — D gives results exactly the reverse to + D.

Note.—Both + D and — D have a maximum value on the four quadrantal points, and become zero on the cardinal points by Compass.

Co-efficient + E gives easterly deviations with ship's head between N.E. and N.W. and S.E. and S. W. and westerly deviations between N.E. and S.E. and N.W. and S.W.

Co-efficient — E gives results exactly the reverse to + E.

Note.—Both + E and — E have a maximum value on the cardinal points, and become zero on the four quadrantal points, but are usually very small in amount in Compasses placed in the middle line of the ship.

Heeling Error.—The heeling error arises partly from vertical induction in transverse iron, and iron vertical to the ship's deck, and partly from the vertical component of the sub-permanent magnetism of the ship. In the Northern Hemisphere in the majority of cases the N. point of the Compass needle is drawn to windard or the high side of the ship, with, as a rule, a maximum heeling error on N. and S. points, and zero on E. and W. points by Compass. If the Compass is not properly placed in the ship, there may be a sensible heeling deviation on E. and W. courses.

Tentative Corrections.

To correct co-efficient C.—With ship's head north or south, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly athwart ship, either on the deck or on any convenient platform, with its centre on the fore and aft line passing through the centre of the Compass card, placing its red or marked end to starboard if the N. point of the needle deviates to the starboard side, or to port if it deviates to the port side of the ship, moving the magnet to or from the Compass until it points correctly.

Note.—The deviation represented by co-efficient C varies inversely as the earth's horizontal force, providing the iron is symmetrically arranged on each side of the Compass.

To correct co-efficient B.—With ship's head east or west, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly parallel to the fore and aft midship line of the ship, either on the deck or on any convenient platform, with its centre on the athwart ship line passing through the centre of the Compass, the red or marked end of the magnet being directed aft if the end point of the Compass needle deviates towards the stern, or forward if it deviates towards the bow, moving the magnet to or from the Compass until it points correctly.

Note.—The co-efficient B consists of two parts: one is due to the permanent magnetism of the ship, which varies inversely as the earth's horizontal force; the other to vertical induction in soft iron, which varies as the tangent of the dip. As ships in the merchant service are rarely built with a view of providing a satisfactory position for the standard Compasses, it is very difficult in many ships to find a position for it where it will not be affected by vertical iron. It follows, therefore, that if this deviation be compensated, as is customary, by a fore and aft permanent magnet instead of by a vertical soft iron bar, the poles of the magnet may in some cases require to be reversed in high southern latitudes.

To correct co-efficient + D.—With ship's head on one of the quadrantal points, magnetic, the + D is generally corrected by boxes of small chain, cylinders of soft iron, or soft iron globes placed athwart ships on the same level, and at equal distances, on the port and starboard sides of the Compass, with the centre of their mass on a level with the Compass needle, move them to or from the Compass till the needle points correctly.

To correct co-efficient—D.—Co-efficient—D, which is of very rare occurrence, is corrected by placing the above correctors on the fore and aft sides of the compass.

Note.—When once the co-efficient D is properly corrected by soft iron it is correct for all magnetic latitudes, provided the distribution of the iron in the ship is not materially changed, and provided the magnetism of the soft iron has not been affected by the Compass needles. With short needles having small magnetic power, such for instance as Sir Wm. Thomson's, there will probably be no change; but when the needles are long and powerful, one-half the original D may be expected to return when approaching the magnetic equator. *See* Admiralty Manual, 1882, page 96, as follows:—"When "a compass with long and powerful needless is employed, "soft iron correctors placed very near it become mag- "netized by induction according to the power of the

" needles, and the resulting correction will not remain
" strictly perfect in all latitudes."

To correct Heeling Error.—The heeling error is corrected for any given magnetic latitude by placing a vertical magnet exactly under the centre of the Compass card, with its N. or red pole uppermost if the heeling error is to windward or to the high side of ship, or its S. or blue end uppermost if to leeward or to the low side of ship, moving the magnet to or from the Compass until the heeling error is corrected.

Note.—The heeling error, due to the permanent par of the magnetism, varies inversely as the earth's horizontal force, and consequently is greatest in high latitudes, diminishes as the ship approaches the magnetic equator, and increases again, still retaining the same name, as the ship recedes from the magnetic equator in the Southern Hemisphere. The heeling error, due to transverse and vertical soft iron, decreases as the ship approaches the magnetic equator, where it is zero, and is of a contrary name in the Southern Hemisphere. It is probable that the poles of the vertical magnet may require to be reversed in high southern latitudes.

A divided scale should be marked or fitted outside the tube or some other convenient place, so as to show the proper position for the correcting magnet as found in any given magnetic latitude, and the same recorded as a guide for approximately placing the magnet in position on any subsequent voyage in the same locality, and especially on the return of the ship to the United Kingdom.

Candidates should understand that the object of tentative adjustment is to bring the deviations within manageable limits, and also to equalise the directive force of the needle so far as is practicable on all courses; but no system of adjustment whatever is sufficiently reliable in character to absolve the navigator from the necessity of using every precaution, and especially of ascertaining the deviation on every available opportunity by observations of the sun by day and the other heavenly bodies by night.

APPENDIX N.

(From Memorandum on Examination of Engineers.)

EXAMINATION OF A MASTER OR MATE IN STEAM

The regulations under which these examinations are conducted are printed at pages 41 to 43 of the regulations for examinations of masters and mates. (Exn. 1.)

A candidate for this examination is required to have a thorough grasp of the construction of the steam engine and boiler, to enable him, in the first place, to understand the nature and importance of any defect which may be reported to him by the engineer, and so that he may work in harmony with the engineer in affording time and facilities for disconnexions, inspections, adjustments, and repairs.

To have a looking-on knowledge of what the principal repairs are about engines and boilers and pipes, and how these repairs are accomplished.

To be able to form an independent opinion as to a breakdown and the consequent propriety or impropriety of proceeding under steam with temporarily repaired or defective machinery.

To understand how to estimate approximately the reduction of fuel required for reduced speed, and consequently to sanction such reduction of speed as may seem to him to be warranted by the report of the engineer, and to satisfy himself before leaving port that there is sufficient coal for the voyage.

To have an intelligent grasp of the general run of pipes and connexions in the engine room, the marking of cocks, the opening and closing of cocks and valves, how mistakes of importance may be made in the confusion of an accident, and how best to guard against such mistakes.

To be capable of being left in charge of the feeding of a set of boilers, to understand the working of the water-gauge, and to be able to guard against being misled by false indications of the gauge glass.

To understand about blowing down and surfacing, the reasons for doing so, and the danger which may result from the neglect of these under certain circumstances. A master or mate presenting himself for examination in steam must be understood to have made up for his want of practical experience by reading up

about the steam engine. He ought, therefore, to show that he has given his mind to intelligently understanding the *rationale* of the action of the steam engine. Under this head, he should, therefore, be able to state approximately the quantity of heat required in the formation of steam, the remarkable relation of "latent" heat to "sensible" heat, using these popular names, how much steam can be raised by the combustion of one pound of coal, what horse-power measure is, what indicated horse-power is, the action of the slide-valve, the course of the steam through the engine, the advantage of working expansively, and how the expansive action is shown by the indicator diagram.

The candidate has to answer in writing 16 out of 20 questions selected from the book of Elementary Questions * Selections for this examination are given on the alphabetic sheet for "Steam." Generally, these answers are given by candidates as learned by rote from a book; the candidate should therefore be asked such *viva voce* questions as will necessitate his giving his answers in different words, so as to discover whether he has the root of the matter in him.

The principal part of the *viva voce* is the examination on board a steamer, preferably one with which he is unacquainted. He is told to look about and try to find out the run of the machinery without the assistance of any one; the Examiner to be in the engine-room to see that this independent examination is properly carried out. When the candidate reports that he thinks he knows the whole arrangement of the machinery, the Examiner will then question him on the uses of the parts, get him to point out the different cylinders, pumps, valves, condenser, &c. He must show that he understands the run of the pipes in the bilges, not necessarily that he has gone over every one of them, but he ought to be directed to trace, at least, one important range of pipes, and to thoroughly satisfy the Examiner that he could be safely trusted to manipulate the valves or cocks in connexion therewith. It will not often be practicable for the candidate to be asked to actually work engines under steam, but he must satisfy the Examiner that he knows how to do so, and that he is aware what precautions have to be taken in regard to water in the cylinder, &c. It is most important that a candidate should show that, in the event of an accident depriving him of the assistance of engineers, he knows what to do to safely take his vessel to an anchorage, or to stop the engines and proceed under sail alone.

The examination of a mate in steam is the same as that of a master. The knowledge is not with reference to the mate's position. A mate may be examined, but such examination implies that the mate will one day be a master, when the possession of the knowledge will be an advantage to him in the discharge of his duties as master.

APPENDIX O.

The following is a reprint of

INSTRUCTIONS

TO

EXAMINERS OF MASTERS AND MATES.

1. The Examiners already understand that they are to be very careful (in examining all applicants for Certificates of Competency) to satisfy themselves that the applicants understand the Rule of the Road at Sea, and should decline to pass every applicant who does not understand it.

2. As a serious misapprehension has, however, arisen in a recent case in which Sound Signals were being made by a steamer under way in thick weather, contrary to the express wording of Articles 12*a* and 19 of the Regulations, it is more than ever incumbent on Examiners not to pass any applicant unless the Examiner is satisfied that the applicant understands that the Signals named in Article 19 are purely optional, and are only allowed to be made in cases in which the weather is so clear that the ship making them has the other vessel in sight.

3. Any Master using these *optional* Sound Signals, even when the other vessel is in sight, does so in every case on his own

* Printed at end of Engineers' Regulations, Exn. 1*a*.

responsibility; but if he uses them when the other vessel is *not* in sight, he commits a very serious act of disobedience to the Regulations, and must abide the consequences of his illegal act.

4. Applicants must be made to understand that the compulsory Sound Signal which *must* be made by a steamer under way in a fog is a prolonged blast under Article 12*a*, and no other Sound Signal.

5. In examining an applicant on the application of Articles 12 and 13, the Examiner should, by answers to questions, ascertain that the applicant understands that it is his duty to go at a moderate speed in fog, while, as regards Article 24, the Examiner should impress on the applicant that an "ordinary precaution" to be observed in the navigation of a steam-ship in a fog is to get the way off his own vessel immediately he hears the Sound Signal of another steamer, and then he should go ahead very slowly, blowing the "prolonged blast" at intervals, and feeling his way until all danger of collision is passed.

APPENDIX P.

Forms used in connection with the Examination and Certificates of Masters and Mates.

Name of Form.	Initial Letters and Numbers.
Regulations relating to the Examinations of Masters and Mates.	Exn. 1
Masters' and Mates' Form of Application for Examination.	Exn. 2
Form of Application for Examination (Colours) ...	Exn 2*a*
Examination Paper, to be used in the examination of Second Mates.	Exn. 4
Ditto, to be used by all candidates when appearing for examination for the first time only.	Exn. 4*a*.
Ditto, Second Mates	Exn. 5
Ditto, Only and First Mates	Exn 6
Ditto, ditto ditto	Exn. 6*a*.
Ditto, Masters, Ordinary	Exn. 7
Ditto, for adjustments of the Sextant .	Exn. 9*a*.
Ditto, Examination in Chart (for Mates)...	Exn. 9*c*.
Ditto, (for Masters)	Exn. 9*d*.
Examiners' Report of Masters' and Mates' Examination	Exn 14
Examiners' Authority for delivery of Certificate to successful candidate.	Exn. 16
Examiners' Certificate (Colours)	Exn. 16*d*.
Ditto authority for return of Fee to unsuccessful candidate (Colours).	Exn. 17*a*.
Ditto Report on Colours tests	Exn. 17*b*.
Application for renewed Certificate	Exn 23
Deviation cards	Exn. 24
Napier's Diagram	Exn 25
Examination paper on Cyclones on revolving storms .	Exn. 32

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

MASTER.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of MASTER in the Merchant Service, I do hereby, in pursuance of Act I of 1859, grant you this Certificate of Competency.*

By order of the Government of Bengal,

*this*_____*day of*_____18____.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

Address of Owner _____

Date and Place of Birth _____

Signature _____

This Certificate is given upon an ORDINARY EXAMINATION passed at _____ *on the* _____ *day of* _____ 18__.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the _____ *day of* _____ 18__.

_____

_____

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

FIRST MATE.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST MATE in the Merchant Service, I do hereby, in pursuance of Act I of 1869, grant you this Certificate of Competency.*

By order of the Government of Bengal,

*this*_____*day of*_____18____.

Under-Secy. to the Govt. of Bengal,

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

Address of Owner _____

Date and Place of Birth _____

Signature _____

This Certificate is given upon an ORDINARY EXAMINATION passed at _____ *on the* _____ *day of* _____ 18—.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the _____ *day of* _____ 18—.

_____

_____

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

ONLY MATE.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of ONLY MATE in the Merchant Service, I do hereby, in pursuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

*this*_____*day of*_____18—.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____ *on the*_____ —

*day of*_____ 18—.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18—.

_____

_____

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

SECOND MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND MATE in the Merchant Service, I do hereby, in pursuance of Act I of 1859, grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18—.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

(82)

BENGAL.

No. of Certificate [redacted]

Address of owner _____

Date and Place of Birth _____

Signature _____

This Certificate is given upon an ORDINARY EXAMINATION passed at _____ *on the* _____ *day of* _____ 18 .

Any MASTER or MATE who fails to deliver up a certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the _____ *day of* _____ 18 .

_____

_____

No. 26 Marine, dated Calcutta, the 31st January 1890

NOTIFICATION—By the Govt. of Bengal, P. W. Dept.

UNDER the powers conferred upon him by section 10 of Act I of 1859, and with the sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules for the examination of persons desirous of obtaining local certificates of competency as Masters and Mates in the Mercantile Marine. These rules supersede those contained in the Notification of the General (Marine) Department of this Government, dated the 28th August 1877, and published in the *Calcutta Gazette* of the 29th idem.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta, not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government; as, if this be not done, delay may be occasioned.

Testimonials of character, conduct and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form Exn. 2 as early as possible.

Testimonials of Foreigners

5. The testimonials of servitude of Foreigners and of British seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to Age

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their Certificates shall be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

Verification of Services by the Port Officer.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the articles of agreement were signed by the applicant, and to end at the date when he was discharged as shown in the articles of agreement. The certificates of discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

9. Services which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served cannot be counted. For instance, a man will state his service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of Employment by the Master to the effect that he served as Mate, when, on reference to the articles, it appears that he has actually been rated as Boatswain: the service in such a case will not be regarded as having been in the capacity of Mate.

Service as an Apprentice.

10. Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and that the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound to the effect that he has performed his service faithfully for the whole time agreed upon.

Service as 2nd, 3rd or 4th Mate to qualify for Master.

12. Service as Second, Third, or Fourth Mate may be accepted as equivalent to service as First or Only Mate to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second, Third, or Fourth Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. It will be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations

Service on board a Training Ship.

13. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself creditably, and passed a good examination in seamanship so far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

14. No period of service on board a training ship will be allowed to count for more than one year's sea service.

Service in capacities other than as Apprentices or Seaman.

15. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the applicants have served. Failing satisfactory evidence, the applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth water

16. Service performed on rivers, no matter of what size, or in smooth water or partially smooth water limits, cannot be accepted.

Partial loss of sight.

17. A person who has lost the sight of one eye cannot be permitted to be examined for a Certificate of Competency. If he already holds a Certificate, he cannot be examined for a Certificate of a higher grade.

Service in Light-ships and Engine-room.

18. Service in Light-ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

Service as Hooghly Master Pilot.

19. Service as a First Class Pilot will be accepted as qualifying for examination for a Master's Certificate for Home Trade Ships, notwithstanding that he may not have served in the capacity of Mate, but only provided that his *Sea Services* are sufficient. For the purpose of this rule, a Hooghly Master Pilot will be held to be a First Class Pilot.

Service as Pilot's Apprentice.

20. Half the amount of service performed as an Apprentice in a Pilot Ship propelled by sails may count as actual Sea Service to qualify for examination for a Certificate of Competency.

Service in Tug Boats.

21. Service performed in Tug Boats employed in Sandheads Service or outside Port limits may be accepted as Sea Service for qualifying for a Mate's Certificate for Home Trade Ships. Service on Hooghly River survey vessels may be accepted on the same conditions. Service in the Hooghly Pilot vessels at the Sandheads is Sea Service.

Desertion and gross misconduct.

22. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty

of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequent service and good conduct at sea, unless the Government, after having investigated the matter, should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

23. If after a Candidate has passed his Examination it is discovered on further investigation, *e g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of a further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted on certain conditions.

24. If in such a case the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

25. In such a case, when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

26. The Local Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

27. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

28. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

29. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

30. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

31. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

32. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

33. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the Colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

34. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn. 2ª.

35. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

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* *See* Appendix O.

36. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

37. Should he ultimately fail to pass the Examination in Navigation and Seamanship, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

38. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a Home Trade Ship.

40. All Candidates for Certificates of Competency must first be examined in Colours.*

41. A MATE must be not less than 19 years of age, and have served four years at sea.

No candidate will be allowed to be examined unless he has served two years at sea within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

42. In Navigation, &c.—He must write a legible hand, and understand the first five rules of arithmetic, both simple and compound. He must be able to take a bearing by compass, and be conversant with the use of Mercator's chart, and be able to find, on either a "true" or "magnetic" chart,† the course to steer, and the distance from one given position to another; to find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of the ship from the object at the time of taking the second bearing.

43. He must also pass an examination in the International Code of Signals.‡

44. In Seamanship, &c.—He must possess a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog and sound signals.§ He must be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals;‖ also the use and management of the rocket apparatus in the event of his vessel being stranded. He must be able to mark and use the lead and log, to moor and unmoor a vessel, and to manage a ship's boat in heavy weather, &c., &c. He must also understand the construction, use, and action of the bulkhead sluices, the engine-room telegraph, &c., and to answer any other questions of a like nature appertaining to the duties of the Mate of a Home Trade Vessel which the Examiners may think proper to put to him.

45. A MASTER must be not less than 20 years of age, and have served five years at sea, of which one year must have been as First or Only Mate in the Home or Foreign Trade, during which service he must have been in possession of a Mate's Certificate for Home Trade Ships or of a First or Only Mate's Certificate for Foreign-going Ships. *Vide also para.* 19.

No candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

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* *See* Appendix F.

† *See* Appendix D. The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them, showing the "true" or "magnetic" point of the compass respectively.

‡ *See* Appendix A.

§ *See* Appendix B.

‖ *See* Appendix C.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

46. In Navigation, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master will be required to find on a chart the course to steer by compass in order to counteract the effect of a given current, and to find the distance the ship will make good towards a given point in a certain time, and to *work out practically* the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart,* &c. He will also be required to understand the use of the quadrant, to be able to observe with it, to read *off* and *on* the arc, and to find the index error by the horizon. He will also be required to find the latitude by a meridian altitude of the sun, and to give written answers (*vide supplementary vivâ voce test, page* 40) to certain practical questions on the subject of the deviation of the compass †

47. In Seamanship, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master must understand how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, &c How to get a cast of the lead in heavy weather, &c. He will be examined as to his resources for the preservation of the crew and passengers in the event of wreck, and the steps to be taken if his vessel is disabled and drifting towards a lee shore, and will be required to answer any other questions appertaining to the management of Home Trade Vessels which the Examiner may think necessary to put to him.

Failure.

Re-examination in case of failure

48 In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship*, he will not be re-examined *until after a lapse* of six months. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government should they see fit.

49 The Examiners in making out their Report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also [illegible] this information under Division H in Form Exn. 2

[illegible] If he fails three times in *Navigation* he will not be re-[illegible]ed until after a lapse of three months from the date [illegible] *last failure.*

Certificate of a lower grade.

51 [illegible]ar a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade

52. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

53. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

Fees.

54. Candidates for examination, in making their application on Form Exn 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as

* *See* Appendix D
† *See* Appendix E.

the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

55. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months. Fees to be paid by applicants for examination

56. If a Candidate fail in his examination, *no part of the fee he has paid will be returned to him* Fees to be paid by applicants for examinations. 133.

57. The fees are as follow :—

For "Home Trade Ships."

	Rs.
Mate	6
Master	12
For the renewal of any certificate .	5

General Instructions to Examiners and Candidates.

58. All instruments necessary for use in the examinations are supplied by the Government. Instruments used in examinations.

59. Before commencing the examination, the tables or desks must be cleared of all scraps of paper or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present. Prohibited books and papers.

60 No instructors will be allowed on the premises

61. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a candidate has occasion to visit the retiring room, he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book kept for the purpose the exact times of his leaving and returning to the examination room. When only a few candidates are under examination, two persons will not be allowed to leave the room at the same time. Candidates not to leave premises during examination.

62. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed. Position of Candidates at examination.

63 If any blotting paper is allowed, it should be black ; and when the first examination paper is issued, each Candidate should be furnished with a piece, which must be returned to the Examiner upon the completion of the last paper. Blotting paper.

64 The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure ; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed How examination papers should be issued

65. When from the large number of the candidates it may be found impossible to look over the work on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but In certain cases problems may be corrected on morning following examination day

in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Vivâ voce examination.

66. In the *vivâ voce* examination a reasonable time should be allowed for the Candidate to give his answers. No assistance should be given or leading question put.

Minor corrections.

67. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate, they will not be considered complete.

Examination to commence with that for Second Mate.

68. In every case the examination, whether for Only Mate, First Mate, Master, is to commence with the problems for Second Mate.

Problems required as tests.

69. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

70 The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

71. The rules as to the amount of time allowed are as follow :—

72. *Candidates for Home Trade Mate's Certificates* must complete the whole of their arithmetical and chart papers within *eight hours*, and Candidates for Home Trade Masters' Certificates within *ten hours*.

Additional time allowed in special cases.

73. Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed the Candidate will be declared to have failed, unless the Examiner see fit to lengthen the period in any special case. If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lengthening the period, together with the time allowed, must be reported to the Government by the Examiner, in the column for "remarks" on the Form Exn. 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *vivâ voce* part of the examination.

74. It is anticipated that but few of the Candidates for Certificates of Competency will require the whole of the time herein allowed for completing their examination in navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear and legible manner, and to the entire satisfaction of the Examiners.

Supplementary vivâ voce Examination on written Papers.

75. An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e. g., Forms Exn. 4a, Exn.* 7, *Exn.* 9*a*, *Exn.* 9*c*, *Exn.* 3*d*, &c.), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the local Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

76. Lest, therefore, such an impression should prevail, the Government wish to point out that Candidates for Certificates of Competency are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescribed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

77. This result may be easily attained by the Examiner putting a few *viva voce* questions to the candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him possesses) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

78. When an Examiner finds it necessary to fail a Candidate in this *supplementary viva voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e., the identical questions and the identical answers given*, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

79. If the Candidate passes he will receive the Form Exn. 16, upon which the Government will issue the certificate to the Candidate, whose testimonials, &c., will be returned at the same time. Form Exn. 16. Completion of examination.

Special Notice to Candidates.

80. The attention of Candidates is specially called to the following Regulations:—

81. Candidates are required to appear at the examination-room punctually at the time appointed.

82. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re-examination for a period of three months.

83. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him. He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

84. In the event of any Candidate being discovered referring to any book or memoranda, copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

85. No Candidate will be allowed to work out his problems on a slate or on waste paper.

86. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

87. Any Candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his certificate for such period as the local Government may direct.

General.

88. Certificates of competency will be made and issued in the forms hereunto annexed.

89. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

90. No application from the holder of a certificate granted by the Government of Bombay to be examined for a certificate of the same legal value shall be entertained.

APPENDIX A.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee of* 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book.* The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose (*always taking care first to show the Ensign and the Code Pennant at the Gaff*),* questioning the Candidates as to the distinguishing Forms of the respective Hoists, *(see Plate annexed)*, which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board, and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships.*

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist.

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not to the Vocabulary of the Code.

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

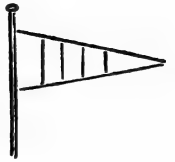
A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal) the three symbols used for Distant Signalling, viz., a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

The International Code is used on board Her Majesty's Ships, and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

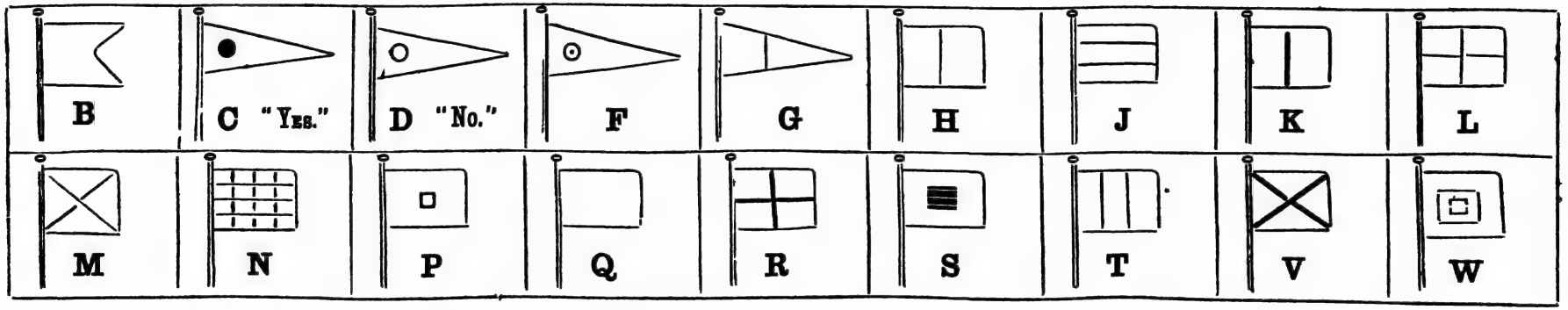
Note.—The International Code of Signals, with the Code List, is prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswoode & Co.,

* The object of this is, of course, to distinguish the Signals from those of another Code.

FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

"CODE SIGNAL" AND  "ANSWERING PENNANT."

N.B.—When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—

ONE FLAG.	TWO FLAGS.			THREE FLAGS.		FOUR FLAGS.			
	BURGEE uppermost, "ATTENTION" Signals.	PENNANT uppermost, "COMPASS" Signals.	SQUARE FLAG uppermost, "URGENT" Signals.	General Signals.		BURGEE uppermost, GEOGRAPHICAL Signals.	PENNANTS C,D,F uppermost, NATIONAL VOCABULARY.	PENNANT G uppermost, Names of MEN-OF-WAR.	SQUARE FLAG uppermost, Names of MERCHANT SHIPS.
C "YES."	B D	F T	N C	K G P	P M V	B D T N	D V C H	G S M W	J M C Q
	WHAT SHIP IS THAT?	W. BY S.	IN DISTRESS, WANT ASSISTANCE	ENGINE BROKEN DOWN.	CALL FOR ORDERS OFF—.	FALMOUTH.	WHAT SHIPS HAVE YOU SPOKEN?	"MARLBOROUGH" SCREW—131 GUNS.	"MARCO POLO," No. 6025.
D "NO."									

'54, Gracechurch Street, London, and the principal Booksellers at the various ports.

The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner; price 12 *s.*

APPENDIX B.

REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND STEERING AND SAILING RULES ISSUED BY THE BOARD OF TRADE.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the Examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

THOMAS GRAY,

Board of Trade, *Assistant Secretary.*

Marine Department.

HEADS OF EXAMINATION IN REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND IN THE STEERING AND SAILING RULES.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor?

The same as for sailing vessels

3. Where is the anchor light to be exhibited?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted?

It may be exhibited at any height where it can best be seen, not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them

9. Of what colour are these lights, and how are they to be placed on board the ship?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh; and over how many points of the compass, and in what directions, and how far, are they required to show.

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass;

so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night?

The same.

12. Are the side-lights required to be fitted with screens; and if so, of what length, and how?

Yes, on the inboard side; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam-ships when under steam at night?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet; and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show?

Over 20 points, viz., from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens; and if so, of what length?

The green and red lights are to be fitted with screens on the inboard side, extending at least three feet forward from the light, as in the case of sailing vessels.

17. Over how many points of the compass, in what directions, and how far, are the coloured side lights of steamers required to show?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, i.e., from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases?

Whenever, as in the case of small vessels during bad weather, the green and red side lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net registered required to carry when under way and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast head light, similar to those carried by other steamships; or

(*b*) They must carry on or in front of the foremast head, and in the same position as the white light which other steamships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry.

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast head a lanthorn having a green glass on the starbord side and a red glads on the port side, so constructed, fitted, and arranges that the red and green do not converge, and so as to show an uniform and unbroken green light over an are of the horizon of 12 points of the compass, and an uniform and unbroken red light over an are of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed at to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance of not less than 3 miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28 If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signal, as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing-ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over than other, not less than three feet apart, and of such a charater as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with

an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam-ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 13 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard.

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz:—

One short blast to mean "I am directing my course to starboard."

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern"

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing or it may be a steam trawler end on, or within two points of being end on, to me.

49. If you see a green, or a red, light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance fog, &c.; or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing trawler engaged in trawling (1) under one arrangement of lights heading so that her side-lights are obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail?

53. How do you know?

Because there is no white mast-head light.

54. If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and red ball on it and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B. Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away

in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56. If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W. N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case, and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the positions indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light or a red light to a green light, the ships carrying the lights are, crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to star board If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70 A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When by the rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this ?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75 Is there any general direction in the steering and sailing rules ; and if so, what is it ?

Yes, it is this : that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights, or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———) ?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing ?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply ?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of the regulations, who is to be deemed in fault for the collision ?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels ?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers ?

Yes ; unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only ?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*), of Article 10, which apply only to British fishing vessels.

83. Do you know where the present regulations are to be found ?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision ?

Yes.

85. What is the penalty for default ?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance ?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship ?

It is.

88. Why ?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence ?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

REGULATIONS FOR PREVENTING COLLISIONS AT SEA. ORDER IN COUNCIL OF 11TH AUGUST 1884.

Preliminary.

Art. 1. In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

Rules Concerning Lights.

Art. 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass, so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the part side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a*) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line one over the other, not less than three feet apart, in front of, but not lower than, her foremast head, three black balls or shapes, each two feet in diameter.

(*b*) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular laterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c*) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

(*d*) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art. 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessels, ready for use: and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent a collision, in such a manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at a height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall

carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights ; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the cost of Europe lying north of Cape Finisterre :—

(*a*) All fishing vessels and fishing boats of 20 tons not registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of th vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing, with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows ; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*c*) A steam-ship and a sailing ship, when not under way, shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

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* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art. 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art. 23. In obeying and construing these rules due regard shall be had to all dangers of navigation; and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art. 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation.

Art. 25. Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art. 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with

respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute;
2. The International Code signals of distress indicated by N. C.
3. The distant signal, consisting of square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING-VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side: and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than lanthorn the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885.—SAILING TRAWLERS OF ANY TONNAGE.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night

with a clear atmosphere for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 3) seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

AIDS TO MEMORY IN FOUR VERSES, BY THOMAS GRAY.

1. *Two Steam-ships meeting.*

When both side lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN to GREEN—or, RED to RED—
Perfect safety—Go ahead!

3. *Two Steam-ships crossing*

Note.—This is the position of greatest danger: there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear;
To act as judgment says is proper:—
To Port—or Starboard—Back,—or, Stop her!

But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do,
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out;
In danger, with no room to turn,
Ease her, stop her, go astern.

14*th October* 1867.

APPENDIX C.

DISTRESS AND PILOT SIGNALS.

M. S. Act 1873. The following sections, together with the schedules referred to therein, of the "Merchant Shipping Acts, Amendment Act, 1873," relate to Signals of Distress and Signals for Pilots. (*See also* "*Regulations for preventing Collisions at Sea. Article* 27.)

Signals of distress. 18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots. 19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this A

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals. 20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.—SIGNALS OF DISTRESS.

In the day time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the daytime:—

1. A gun fired at intervals of about a minute;
2. The International Code signal of distress indicated by N C;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.—SIGNALS TO BE MADE BY SHIPS WANTING A PILOT.

In the day time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day time, viz:—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX D.

EXAMINATION IN CHART.

FOR ALL GRADES WHERE THE CHART IS USED (INCLUDING "HOME TRADE" CANDIDATES).

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart, * whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemispheres.

---

1. Using deviation [card] [curve] † No. find the course to steer by compass from to ; also the distance.

Answer.—Compass course .
Distance .
Variation .
Deviation .

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude .
Longitude .

3. With the ship's head as above, a [point] [light-house] bore by compass , and after continuing on the same course miles, it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude .
Longitude .
Distance .

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature .
Date .
Chart used .

ADDITIONAL FOR MASTERS (INCLUDING "HOME TRADE" CANDIDATES).

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a

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* The terms "true" and "magnetic" are used for the sake of brevity, and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" points of the compass respectively.

† A candidate for a Master's Certificate is expected to use either a card of deviations, or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him.

current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course

Distance

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9 C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

APPENDIX E.

DEVIATION OF THE COMPASS.

(For Masters of Home Trade Ships.)

[The Applicant must answer in writing, on paper given him by the Examiner, all the following questions, numbering his answers to correspond with the numbers of the questions.]

1. When taking a Meridian Altitude, how do you know when the sun is on the Meridian; or, in other words, when it is noon?
2. How does the sun bear when on the meredian of an observer in these latitudes (Home Trade Limits)?
3. What do you mean by deviation of the compass, and how is it caused?
4. Having determined the deviation, how do you know when it is easterly, and when westerly?
5. Supposing the sun when on the meridian bore by your compass——————what would be the deviation of that Compass for the direction of the ship's head at the time, the variation given on the Chart being——————?
6. How could you find the deviation of your Compass when in port, or when sailing along a cost?
7. Name some suitable objects by which you could readily obtain the deviation of your Compass, when sailing along the coasts of the Channel you have been accustomed to use?
8. The bearing of two objects when in a line with each other was found on the Chart to be——————magnetic; but when brought in a line on board they bore——————by your Compass; required the deviation of your Compass for the direction of the ship's head at the time?
9. What means are there for checking the deviation of your Compass by night?
10. Supposing the North Star (*Polaris*) bore——————by your Compass, what would be the deviation (approximately) of that Compass for the direction the ship's head at the time, supposing the variation given on the Chart to be——————?
11. Do you expect the deviation to change? if so, state under what circumstances?
12. What is meant by variation of the Compass, and what is the cause of it?

APPENDIX F.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follow :—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1.
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

(*d*) Cards, five of each as follow :—

1. White
2. Black.
3. Red.
4. Pink.*
5. Green.
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards.)

In conducting the examination by daylight the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the day-light test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap
4. The result of the examination should be noted and recorded in each case.

Examination by Artificial light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn; and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so, what colour ?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c. ; or to name card No. 7 as red, green, or yellow ; or glass No. 2 as green blue, or yellow ; or glass No. 5 as red, pink, salmon, &c. ; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight ; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MASTER.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Master in the* _____ *service, I do hereby, in pursuance of Act No. I of* 1859 *of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

Given *under my* Hand and Seal,

this _____ *day of* _____ 18____.

By order of the Government of Bengal,

Under-Secy. to the Govt. of Bengal.

No. of Certificate

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at Calcutta on the*_____*day of*_____18___.

Registered.

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MATE.

To _____

Whereas *it has been reported to the Lieutenant-Govern r that you have been found duly qualified to fulfil the duties of* _____ *Mate in the* _____ *service, I do hereby, in pursuance of Act No. I of* 1859 *of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

this _____ *day of* _____ 18___. *Under-Secy. to the Govt. of Bengal.*

No. of Certificate

Bearer _____

Date and Place of Birth _____

No. of Register Ticket _____

Signature _____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at Calcutta on the _____ *day of* _____ 18__.

Registered,

Port Officer of Calcutta.

NOTICE.

Candidates applying to be examined for Certificates of Competency are hereby informed that no remuneration or gratuity whatever, either directly or indirectly, can be received by any Officer, Messenger, or Servant of the Government, except the lawful fees stated in the Regulations, which are to be paid to the Port Officer when the Candidate makes his application.

Any Officer, Messenger, or Servant of the Government accepting any present or gratuity is liable to summary dismissal, and any Candidate so offering money will be subject to the penalty mentioned in para. 16 of the Regulations relating to the examination of Masters, or para. 35 of those relating to the examination of Engineers and Engine-drivers as the case may be.

Every case in which an applicant has paid, or pays hereafter, any fee or gratuity to any Officer, Messenger, or Servant, on any pretence whatever, other than the prescribed fees for examination, should be reported to the Local Government.

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal.

P W. (Marine) Dept.

REGULATIONS

RELATING TO THE

EXAMINATION OF MASTERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, 1884, no inland steam-vessel having engines of eighty nominal horse-power or upwards is allowed to proceed on any voyage unless her master possesses a first class master's certificate granted under the Act, or a master's certificate granted under Act I of 1859 (*for the amendment of the law relating to merchant seamen*), or the Merchant Shipping Acts, 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power is allowed to proceed on any voyage unless her master possesses a second class master's certificate granted under the Act, or a certificate of the higher grade of the nature referred to above:

Provided that a steam-vessel having engines of under eighty nominal horse-power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act

Any person who having been engaged to serve as master of an inland steam-vessel proceeds on any voyage in that steam-vessel as master without being at the time entitled to and possessed of the certificate required under the Act, and any person who employs any person as such master without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees.*

No. 27 Marine, dated Calcutta, the 31st January 1890.

NOTIFICATION—By the Govt of Bengal, P. W. Dept.

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to masters of inland steam-vessels.

Certificates granted to persons who pass examinations

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose arrangements have been made for holding examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined

2. The examinations will be held by the Port Officer and one or more other examiners to be appointed by the Government from time to time They will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined.

3. Candidates for examination must make their application upon the appropriate form (Exn. 2*b*), which must be filled up at the Port Office. The Exn 2*b* properly filled in, together with the candidates' testimonials and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials of character, conduct, and ability required

4 Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the candidate can be examined, it is desirable that they should be handed in, together with the Forms Exn 2*b*, as early as possible.

Testimonials of Foreigners

5. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificates as to Age

6. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their certificate shall be endorsed to the effect that they are valid only for vessels manned and officered entirely by Asiatics.

Colour Tests.

8. The Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

9. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

10. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2*a*, and pay a fee of one rupee.

11. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

12. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

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* *See* Apendix A.

13. The application of a *Candidate who is presenting himself for Examination for a Master's Certificate* must be made on Form Exn. 2*b*. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination

14. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

15. A candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If the fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

16. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn. 2*a*.

17. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination for the Certificate of the higher grade.

18. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

19. Should be ultimately fail to pass the Examination, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

20. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency as First Class Masters.

21. *Examination in Colours.*—All candidates for certificates of competency must first be examined in colours.*

22. A candidate for a certificate as first class master of inland steam-vessels must be not less than twenty-four years of age, and must have served as a second class master in charge of a steam-vessel for not less than three years, or he must be not less than twenty-two years of age, hold a certificate of competency as second mate granted under Act I of 1859 (for the amendment of the law relating to Merchant Seamen) or the Merchant Shipping Acts 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869, and have served as Mate of an inland steam vessel or master of a river flat for not less than one year.

23. Each candidate will be examined apart, and *viva voce*, in each and all of the following subjects:—

(1)—The rules of the road.
(2)—The management of river steamers under all contingencies.
(3)—The tide table.
(4)—Storm signals.
(5)—The provisions of Act VI of 1884, and the rules framed under sections 21, 29, 50 and 51 of the Act.

Qualifications for Certificates of Competency as Second Class Masters.

Examination in Colours.—All candidates for certificates of Competency must first be examined in colours.*

24. A candidate for a certificate as second class Master of an inland steam-vessel must not be less than twenty-one years of age and must produce satisfactory certificates of

* *See* Appendix A.

sobriety and intelligence, and that he has served three years as Mate of a small steam-vessel or as chief helmsman of a steam-vessel of over 80 horse power, and shall be examined *viva voce* as to his knowledge in the following subjects:—

(1)—The rules of the road.
(2)—The management of small river steamers.
(3)—Storm signals.

Failure.

Re-examination in case of failure.

25. If a candidate fails, he will not be re-examined *until after a lapse* of three months from the date of such failure.

Certificate of lower grade.

26. If a candidate has failed in his examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade.

27. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled so to do, for re-examination for the higher grade of certificate he will be required to pay again the full fee.

Fees.

28. Candidates for examination, in making their application on Form Exn. 2*b*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials as the case may be, they will be allowed to again present themselves for examination for a certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected and not allowed to be again examined for twelve months.

30. If a candidate fails in his examination, *no part of the fee will be returned to him.*

31. If the candidate satisfy the examiners as to his knowledge of the prescribed subjects, and generally as to his competency to command an inland river steamer, they shall certify the same to the Government, which will then grant a certificate to the candidate.

Form Exn. 16. Completion of examination.

32. The fees are as follows:—

	Rs.
First Class Master	16
Second Class Master	6
Renewal of a certificate	5

General.

33. Certificates of competency of first and second class masters shall be made and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*.) A lanthorn having in it a lamp in which kerosine is to be burnt.
(*b*.) A side having ground glass in it.

(*c.*) Nine slides, each having a coloured glass in it. The colours are as follows:—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

(*d.*) Cards, five of each as follow:—

1. White.
2. Black.
3. Red.
4. Pink.*
5. Green
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards.)

In conducting the examination by daylight the examiner should do it in three ways:—

1. The cards should be mixed up. The examiner should then hold up each card separately and ask the candidate to name the colour, and if the candidate does so without hesitation he is to be regarded as having passed the daylight test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn; and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so what colour?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint

The result of the examination should of course be noted and recorded in each case.

General

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c.; or to name card No. 7 as red, green, or yellow; or glass No. 2 as green, blue, or yellow; or glass No. 5 as red, pink, salmon, &c.; or glass No. 7 as bright red or bright green; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn 17B

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black by daylight; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown) the may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

FIRST CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr. _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of First-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such First-class Master.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18____.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

*Issued at Calcutta on the*_____*day of*_____18___.

Registered,

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

SECOND CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr. _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of Second-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such Second-class Master.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18__.

No. of Certificate

Bearer _____ *son of* _____ *by caste* _____

Date and Place of Birth, showing Village, Thana and District* _____

Residence, showing Village, Thana and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

No. of Register Ticket _____

Signature _____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence.

REGULATIONS

RELATING TO THE

EXAMINATION OF ENGINEERS AND ENGINE-DRIVERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, an inland steam-vessel having engines of eighty nominal horse-power or upwards cannot proceed on any voyage unless her engineer possesses an engineer's certificate granted under the Act or the Indian Steam Ships Act, 1884, or the Merchant Shipping Acts, 1854 to 1883, or to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power can proceed on any voyage unless she has as her engineer a person possessing an engine-driver's certificate granted under the Act or the Indian Steam-Ships Act, 1884, or a certificate of the higher grade of the nature referred to above: Provided that a steam-vessel having engines of under eighty nominal horse-power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act.

Any person who has been engaged to serve as Engineer or engine-driver of an inland steam-vessel proceeds on any voyage in that steam-vessel as engineer or engine-driver, as the case may be, without being at the time entitled to, and possessed of, the certificate required under the Act, and any person who employs any person as engineer or engine-driver without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees*.

No. 28 Marine, dated Calcutta, the 31st of January 1890.

NOTIFICATION—By the Govt. of Bengal, P. W. Dept.

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engineers and engine-drivers of inland steam-vessels

Certificates of competency granted to persons who pass requisite examinations.

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined.

2. The examinations will commence early in the forenoon and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Application how to be made.

3. Candidates for examination must make their application upon Form Exn. 3, which must be filled up at the Port Office. The Exn. 3 properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct for at least the 12 months immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an employer; if at sea, by either the master, managing owner, chief or superintending engineer.

5. As such testimonials and discharges may have to be verified before the candidates can be examined, it is

desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners

6. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age.

7. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

8. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel.

Verification of services, &c., by Articles.

9. Services which cannot be verified by proper entries in the articles of the ships in which the candidates have served cannot be counted.

Qualifications for Certificates of Competency as Engineers.

Qualification of candidate for Inland Engineer's Certificate.

10. A candidate must be not less than twenty-two years of age:—

(*a*) He must have served an apprenticeship to an engineer, of three years in England or five years in India, and must prove that during the period of his apprenticeship he has been employed on the making and repairing of engines. Or, if he has not served an apprenticeship, he must prove that for not less than three years in England or five years in India he has been employed as a journeyman or master-hand in some factory or workshop on the making or repairing of engines. In either case he must also have served two years thereafter in the engine room of a steamer of over 80 horse power, or as a certificated engine-driver in a steamer of less than 80 horse power.

Or failing the above service he must have served as a certificated engine-driver in charge of a steamer for not less than four years.

(*b*) He must be able to give a description of boilers, and the methods of staying them, together with the use and management of the different valves, cocks, pipes, and connections.

(*c*) He must understand how to correct defects from accident, decay, or other causes and the means of repairing such defects.

(*d*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*e*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*f*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total breakdown.

(*g*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*h*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

Qualifications for Certificates of Competency as Engine-drivers.

11. Candidates for examination must make their application upon the appropriate Form (Exn. 3*b*), which must be filled up at the Port Office.

12. A candidate for a certificate of competency as engine-driver must have attained the age of twenty-two years.

He must have served an apprenticeship of at least four years if in India or three years in the United Kingdom, and have served as assistant engineer for one year on a steamer of not less than 80 horse power.

Or he must have been three years principal serang or tindal in the engine-room of a steamer, or have been for three years in charge of the engine of a factory or mill under a European manager or engineer, as well as one year principal serang or tindal or assistant engineer in the engine-room of a steamer under a certificated engineer.

13. He must have the testimonial shown in Appendix B filled up by the engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

14. He must pass a *viva voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

15. He must be able, if required, to show his practical qualifications by one week's trial in a steamer after fulfilling the other tests to which he will be subjected.

General Rules as to Examinations.

Candidates not to take books, &c., into examination room.

16. All books necessary for the use of candidates under examination will be provided by the Government, and applicants will not be permitted to take into the examination room any book, paper, document, or memoranda of any description whatever; and, subject to the provisions referred to hereafter, they will also not be allowed to work out their problems on a slate or on waste paper

17. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners. These additional sheets must be attached to, and form part of, the examination papers.

Punishment for breaking rules.

18. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination; and no part of the fees he may have paid for examination will be returned to him.

Leaving examination room.

19. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the examiners may substitute other data or another question.

Questions from Form Exn. 15*a*.

20. All applicants presenting themselves for examination for certificates of competency as engineers will be required to give written answers to eight out of a list of ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency." These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling.

21. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

22. Examiners may add to their *viva voce* questions on the practical management of steam engines and boilers any of those contained in Exn. 15*a*.

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* *See* Appendix A.

23. If at the expiration of the time allowed the candidate has worked out correctly the whole of the questions set to him, and given satisfactory answers in the *viva voce* examination, he will be declared to have passed.

24. If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *viva voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiner that the applicant is competent to take charge of engines, he will be declared to have passed.

25. In other cases he will be declared to have failed.

(Exn 15) 26. A report of the examination, and the examination papers, will be forwarded to the Government on the Form (Exn. 15).

Notification of having passed will be given to successful candidates (Exn 16) 27. If the candidate passes, he will receive the Form Exn. 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c, will be returned at the same time. It is therefore important that the port of destination of the certificate should be the same on both the Form Exn. 16 and the Form Exn. 2. If circumstances should make any alteration necessary, the examiners should see that it is made in both forms, otherwise delay in the issue of the certificate may be caused.

Fees.

Fees to be paid by applicants for examination. 28. Candidates for examination, in making their application on Form Exn. 3 or Exn. 3*b*, will be required to pay the examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

30. If a candidate fails in his examinations, *no part of the fee he has paid will be returned to him.*

31. The fees are as follow :—

	Rs.
Engineers	12
Engine drivers	10
Renewal of a certificate	5

Failure.

32. If the applicant fails in the *viva voce* or practical part of the examination, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service afloat. If he fails in arithmetic or drawing only, he may come up again at any time. Engine-drivers may be examined *de novo* after six months, if the past examination showed that they might reasonably be expected to qualify.

General.

33. Certificates of competency of engineers and engine-driver shall be made out and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

Form Exn. 15a.

ELEMENTARY QUESTIONS FOR THE FIRST EXAMINATIONS OF ENGINEERS FOR CERTIFICATES OF COMPETENCY.

To Engineer Examiners.

Examiners will require all candidates to fill up a form, Exn. 15*b*., of which a copy is enclosed, and they will forward the same to the Government along with the report of the examination.

The arithmetical questions for Engineers and the *vivâ voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences.

Exn. 15b.

Port	Class for which examined
Date	Candidate's name

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the Engine-room at sea, and in what capacities?

D. With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the Engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *See* the book of Elementary Questions. The questions need not be written: only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS.

1.

What parts of an engine are generally made of wrought-iron?

2.

What parts of an engine are generally made of cast-iron?

3.

For what parts of an engine is steel sometimes used?

4.

What parts of an engine are generally made of brass or gun-metal?

5.

Where is "white metal" sometimes used? On account of what property possessed by it is it adopted? What objection is there to its more general use?

6.

For what parts is Muntz metal sometimes used? Is it malleable? For what properties is it valued?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other?

9.

What are the different properties of cast-iron, of wrought-iron, and of steel.

10.

What is meant by the terms "breaking stress," "proof stress," "safe-working stress"?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron?

12.

Tempering steel: how is it done, and in what order do the colours come?

13.

What is case-hardening?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short"?

15.

What is meant by "welding"? Which of the common metals can be welded?

16.

The expansion of metals by heat: give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot? When the material is steel, what precautionary treatment of these plates is afterwards necessary?

18.

What is double riveting? In what parts of cylindrical marine boilers is double riveting employed? In which of the shell seams is it most necessary?

19.

What is "caulking," and how are seams prepared for caulking?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans ?

21.

What strain per square inch is allowed on boiler stays ?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected ?

24.

How are boiler tubes fixed ? What are "stay tubes," and how are they secured ?

25.

Where is it generally that boiler tubes leak ? How is this defect repaired ? What are the causes of this leaking ?

26.

What are the causes of cracked tube plates ? Where are the cracks situated ? How are they repaired ?

27.

What is the difference between a "dry uptake" and a "wet uptake" ? Which requires most repair ? Why ? Where have you seen a wet uptake ?

28.

What is a superheater ? What is its construction ? What valves are on it ? There is sometimes a gauge glass on it ; what is that for ?

29.

What parts of a marine tubular boiler are first injured by shortness of water ?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used ?

31.

Priming : to what causes is it attributed ? What means are applied to prevent it ? What evils may be produced by it ?

32.

Funnel draught : what makes it ? What checks it ?

33.

Flame is sometimes seen at the top of the funnel : what causes this appearance ? Is it beneficial or is it detrimental ? Why so ?

34.

A blast pipe : what is its construction ? Where is it placed ? For what is it used ?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted ?

36.

Blow-off cocks are sometimes fitted with a spanner guard : for what purpose is this ? Describe how the guard is formed ?

37.

Test cocks or water-gauge cocks : where are they placed ? At what heights ? Must the cocks themselves be at those heights ? What provision is made for cleaning these cocks ? Should they ever become choked ? When there are no test cocks, how is the height of the water ascertained ?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation.

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses. There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear and the engine still moving?

63.

What are "double beat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64.

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers.

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface-condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that when opened admits steam from the slide valve casing to the exhaust port: what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing. Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in which under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used. What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action; to what part of the engine is it connected; whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed? In that case are the feathering levers on the striking face or on the back of the float? When the paddle shaft has an outer bearing, how is the eccentric made?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats? Are they all lubricated? With what?

103.

What is a "Disconnecting Paddle Engine"? At what place is the disconnecting effected? How is it accomplished? In which of the cranks of a disconnecting engine are the crank pins fixed?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines? For what steamers are disconnecting paddle engines frequently employed?

105.

What are expansion joints? Where are they necessary? What attention do they require? Of what should the working surfaces be made?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied? How is this prevented in the construction of a steam trunion pipe for an oscillating engine?

107.

Describe an oil cup with a syphon worsted. How is the worsted arranged? How is it cleaned? How far down the tube does it extend?

108.

Describe a thrust bearing; which of the surfaces wears? Why are there sometimes a number of oil tubes for one thrust bearing?

109.

What parts of a screw shaft are generally covered with brass? Why is this necessary? About what thickness is the brass?

110.

What is the stern tube or screw shaft pipe? Why is a pipe of such a length required? Of what is it made? How is it fixed at each end?

111.

What is a lignum vitæ bearing? How is the wood fitted? Where is such a bearing generally used?

112.

How is a screw propeller fixed on the shaft? What means are used to prevent its getting loose at sea?

113.

Where are sluice valves placed? What large sluice valve is there in almost all screw steamers? From what position should this valve be worked? Why so? What attention should it receive?

114.

With a condensing engine; what valves or cocks are on the skin of the ship in the engine-room and in the stokehole?

115.

What are the necessary fittings of a marine boiler?

116.

With a surface condensing engine what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action. To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected.

121,

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion?

134.

What is the explanation of the economy of the surface condenser?

135.

What is the construction of a surface condenser? Of what are its tubes made? How are they fixed? How are they kept tight? What is done with a split tube?

136.

Where do surface condensers foul? How are they cleaned?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation?

139.

How can the formation of black smoke be prevented? Describe smoke preventing apparatus.

140.

What is meant by "circulation" in a boiler, and what are the results of defective circulation?

141.

What means are sometimes adopted to improve the circulation in a boiler?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler?

143.

Describe a ship's side air-pump discharge valve, in what respects does it sometimes differ from a common stop valve, and what attention does it require?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks?

146.

What is the measure of a horse-power? How is indicated horse power ascertained?

147.

Has "nominal horse power" a fixed meaning? What is the use of this expression? What is generally taken as the measure of one horse power nominal?

148.

What is "back pressure" in a cylinder? About how much is it in each of the cylinders in your last steamer? Is excessive cushioning ever a trouble under certain conditions in modern engines? Say when and why and in which cylinder this occurs.

149.

What is meant by "speed of piston"? About how much is the speed of piston in modern marine engines?

150.

What is "atmospheric pressure"? What is its average amount? What instrument tells this amount?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction. Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge, in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer, its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs, and (5) of strain about 150 lbs, also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, get short of water, although the feed valve is open its proper amount; to what causes might this be due?

179.

Of what are furnace bars generally made? About what thickness are they at top? About what space is between them? Whether are the bars put further apart for Newcastle coal or for Welsh coal?

180.

Which burns faster, Newcastle coal or Welsh coal? Which is the flaming coal? Which makes most smoke?

181.

About how many tons of steam coal will be burnt per day in our furnaces, each 3′ 0″ wide, and of about the usual length? On what grounds do you say so?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone? On what grounds do you say so? What percentage more coal would be required to propel the same steamer one knot faster?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work? On what grounds do you say so?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam? Which will take place earlier, and which later, distinguishing between the up stroke and the down stroke?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke?

186.

A screw propeller is getting loose, it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts?

APPENDIX B.

TESTIMONIAL.

I hereby certify that has served with me in the engine-room of as principal serang or tindal for a period of , during which time he has discharged his duties to my entire satisfaction

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a river steamer having engines not exceeding 80 *nominal horse-power.*

Date (*Signed.*)

No. and description of Certificate.

ANY Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applican 's elligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINEER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To_____

Whereas *it has been reported to the Lieutenant-Governor of Bengal that you have been found duly qualified to fulfil the duties of Engineer of an Inland Steam-Vessel, I do hereby, in pursuance of Act VI of* 1884, *grant you this CERTIFICATE OF COMPETENCY.*

Given *under my* Hand and Seal,

By order of the Government of Bengal,*

This_____ 18____

Under-Secy. to the Govt. of Bengal.

[REGISTERED No 29]

No. 6 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, FEBRUARY 5, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 1st February, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*

The HON'BLE F. B. PEACOCK.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

BENGAL VACCINATION BILL

THE Hon'ble SIR HENRY HARRISON moved that the Report of the Select Committee on the Bill to amend the Bengal Vaccination Act, 1880, and Act II, 1887, be taken into consideration in order to the settlement of the clauses of the Bill.

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved that the clauses of the Bill be considered for settlement in the form recommended by the Select Committee.

He said:—"I have explained the object of the Bill at a previous meeting, and it is therefore not necessary for me to say anything further on this occasion."

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved that the Bill, as amended, be passed.

The Motion was put and agreed to.

CALCUTTA PORT BILL.

His Honour the PRESIDENT said:—"Before adjourning the Council, I think I owe a few words to it in explanation of the omission from the list of business of the Ports Bill which had been originally entered in the list of business for discussion to-day.

"You will recollect that a fortnight ago we adjourned without considering it, in order that the Chamber of Commerce might have an opportunity of submitting a memorial, which we understood was in the course of preparation for our consideration.

"On Wednesday last, my friend, the Hon'ble Mr Moore, told me he was afraid he would have to ask for another postponement in consequence of the absence of the Chamber's legal adviser. I asked him to see if the postponement could not be avoided, but I heard from him yesterday that he had been unable to get the memorial considered in time for us to take it up to-day, and he again asked for an adjournment. Upon that I took it on myself to exclude the motion from the list of business for to-day.

"Since then (yesterday) I received an application, which I think is in your hands, from the Secretary of the British Indian Association, which requests us that we will postpone for a fortnight the consideration of the Select Committee's report in view of the Committee laying before the Council some further representation regarding section 85.

"I may add that the Secretary says 'that the question of title in riverbanks having been treated by the Select Committee as one of general application, my Committee venture to hope that His Honour the Lieutenant-Governor will be pleased to recognize its importance by granting their prayer.'

"On this occasion I am very glad that we are able to meet their wishes without adding to the inconvenience of the Council, but I think I must protest against a body of the importance of the British Indian Association addressing us two days before the Bill is down for final consideration, asking us to postpone that consideration with reference to a point which has been discussed in all the newspapers since the issue of the report of the Select Committee which has been before them for five whole weeks, and regarding a section which has been the law of the land, with a slight alteration, for the last twenty years. I think it would be more respectful to the Council, and more conducive to public business, if they would take matters of that kind into their consideration a little earlier before the date of actual discussion in Council.

"On this occasion, as I said, I am very glad to be able to meet their wishes, but I do hope that, on Saturday fortnight, to which I propose to adjourn the Council, this Port Bill may be brought up for discussion and settlement."

The Council adjourned to Saturday, the 15th February, 1890.

CALCUTTA;
The 3rd February, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

EXTENSION OF THE BENGAL TENANCY ACT TO ORISSA.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 24th January, 1890.

RESOLUTION.

READ—

A letter from the Commissioner of Orissa, No. 1850, dated 4th November, 1886, on the subject of the extension of the Bengal Tenancy Act to that Division.

A letter from the Board of Revenue, No. 975A, dated 17th December, 1889, with enclosures, regarding the arrangements to be made for the survey and settlement of Orissa.

THE Collector of Balasore recommended in 1885 that the Lieutenant-Governor should, in the exercise of the power vested in him by section 1, immediately extend the Bengal Tenancy Act of that year to Orissa. The proposal received no local support at the time, and was considered premature by this Government; but it has since been renewed in connexion with the survey and settlement of the Division which is now being taken in hand. The Director of the Department of Agriculture and Land Records has represented that the settlement laws now in force in Orissa, that is to say, Regulation VII of 1822 and Bengal Act VIII of 1879, read with Act X of 1859, do not supply an adequate machinery for adjusting rents, inasmuch as they do not require the ryots to question the Settlement Officer's proceedings till the record is completed, and that the procedure which they established has proved practically unworkable where it has been contested. He observes—

"In proceedings under Chapter X of the Tenancy Act, the case is otherwise. The Settlement Officer's decision has the force of a decree; it must be appealed against within 30 days of the date of the order, and the appeal lies to the superior court of a Special Judge. Settlement proceedings under Chapter X of the Tenancy Act have therefore a sanction and finality which do not attach to proceedings under Act VIII of 1879. Moreover, experience has shown that proceedings under Chapter X of the Tenancy Act, besides being final, can be worked harmoniously and satisfactorily. It appears to me, therefore, that Chapter X of the Tenancy Act should be extended to those portions of Orissa which are from time to time brought under survey.

"The extension of Chapter X to any particular area involves also the extension of the sections of the Act relating to the determination of the status of tenants and to the enhancement and reduction of rent, *i.e.* sections 19 to 38. As a record of rights will have to be made and fair rents settled under Chapter X, it is evident that the rules for determination of the status of tenants and determination of fair rents prescribed in the Act must also be followed."

There is also some reason to believe that if the most important portion of the Act is extended to Orissa, it will be convenient to introduce the law in its entirety. It is a question, however, whether the provisions as to preparing price-lists (section 39) and as to the payment of landlords' fees on transfers of tenures (sections 12 and 13) should not be excluded. The provisions as to judicial procedure and sales on decree (Chapters XIII and XIV) may, moreover, be found unsuitable to a province in which rent suits are still tried by Revenue officers.

2. The opinion of the Board and of the Revenue officers employed in Orissa is awaited on the subject; and, as the matter is of considerable public importance, the Lieutenant-Governor will be glad to receive any expression of opinion which may be offered by those interested. Such opinions should be transmitted to this Government before the 15th of April next.

ORDER.—Ordered that this Resolution be published in the *Calcutta Gazette* for the information of the public.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt of Bengal.

THE CANAL REVENUE REPORTS FOR 1888-89.

No. 198 *I.A.*

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 3rd February 1890.

RESOLUTION.

READ—

The Canal Revenue Reports for 1888-89, and Chief Engineer's Note on same.

The outlay, direct and indirect, on canals in Bengal, for which capital accounts are kept, amounted at the close of the year 1888-89 to Rs. 7,15,56,843. Of this sum Rs. 6,05,42,061 is the amount spent on Major Irrigation Works and charged to Loan Funds; while the expenditure on Minor Works was Rs. 1,10,14,782, of which Rs. 93,75,327 was provided from Provincial revenues, Rs. 8,66,000 was the grant contributed by the Imperial Government from Famine Relief and Insurance Funds in aid of the construction of the Orissa Coast Canal, and Rs. 7,73,455, representing expenditure on surveys and investigations for irrigation works which have not been carried out, was provided from Imperial revenues, but is not now chargeable with interest.

On Major Works the capital outlay during the year was Rs. 7,92,776, of which Rs. 6,38,718 represents the progress made with the revised project for the Orissa Canals, and Rs. 1,51,340, the expenditure on the Sone system; that on Minor Works was Rs. 1,49,475, of which Rs. 1,01,306 was spent on the Orissa Coast Canal, now nearly completed and open to traffic throughout its length, and Rs. 47,862 on the Circular and Eastern Canals.

2. The length of the canals in Bengal now in operation is altogether 864 miles, of which 621 miles are navigable. The area which, in their present state of completion, they are capable of irrigating is 1,422,319 acres, and the area actually irrigated in 1888-89 was 574,216 acres, the crops raised on which are valued at Rs. 1,81,10,045.

The traffic is represented by 195,140 boats which plied on the canals with passengers or cargo, and measured 3,747,300 tons. These figures do not include the traffic on the Nuddea rivers, which were brought under the management of the Public Works Department at the commencement of the year. On these rivers the boats which paid toll were 48,224 in number, and were measured at 839,502 tons.

3. Receipts and expenditure are shown in the following statement, where the results of three years can be compared:—

	1888-89.		1887-88.		1886-87.	
	Receipts.	Expenditure.	Receipts.	Expenditure.	Receipts.	Expenditure.
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Canals	2,43,294	4,05,019	2,22,679	5,02,450	1,79,519	5,20,543
Midnapore Canal	2,51,510	2,09,804	2,33,025	2,50,390	2,33,974	2,35,038
Hidgellee Tidal Canal	55,097	78,040	41,858	66,976	53,494	22,735
Sone Canals	8,31,278	7,94,432	5,88,618	7,52,348	9,02,692	5,97,821
Total ...	13,81,179	14,87,295	10,87,080	15,72,170	13,69,679	13,76,137
MINOR WORKS AND NAVIGATION.						
Irrigation and Navigation Works.						
Sarun Canals	20,814	36,332	20,665	29,397	12,427	28,659
Calcutta and Eastern Canals ...	5,75,125	2,93,801	5,79,934	2,24,656	4,83,654	1,92,264
Orissa Coast Canal	66,174	77,018	53,837	83,507	29,488	61,426
Total ...	6,62,113	4,07,151	6,54,436	3,37,560	5 25,569	2,82,349
GRAND TOTAL ...	20,43,292	18,94,446	17,41,516	19,09,730	18,95,248	16,58,486

The net deficit on Major Works is Rs. 1,06,116 contrasting with deficits in 1887-88 of Rs. 4,85,090 and in 1886-87 of Rs. 6,458, while Minor Works shew incomes in 1888-89 of Rs. 2,54,962, in 1887-88 of Rs. 3,16,876, and in 1886-67 of Rs. 2,43,220. All irrigation works taken together shew a net income in 1888-89 of Rs. 1,48,846; but as interest charges payable to the Imperial Government on the capital spent on Major Works amounted to Rs. 23,39,849, the actual deficit to be met from Provincial revenues was Rs. 21,91,003.

4. The better results of 1888-89 as compared with 1887-88 have been mainly due to increased receipts, but the statement shews that considerable reductions of expenditure were also effected. In Orissa one great outlet of expenditure, the reconstruction of the two weirs which were partially overthrown by the floods of 1886, a work which for two years has been a heavy charge on the revenues of the Orissa Canals, is now happily closed. On the other hand, the ordinary maintenance charges of these canals are found to be higher than usual, a point to which the attention of the Superintending Engineer has been drawn in the Chief Engineer's Note. It seems probable, however, that, so long as the reconstruction of the weirs was in progress, expenditure on ordinary repairs was restricted to the more imperative requirements of the works, and more therefore had to be spent in 1888-89 in carrying out repairs which could be and had been postponed for a while. The cost of establishment chargeable against Revenue, which in 1886-87 was Rs. 5,16,714 for the works given in the table above, rose in 1887-88 to Rs. 7,21,376, an increase due not to greater extravagance in the establishment employed, but to the introduction of a new and fairer method of distributing establishment charges between Irrigation and Roads and Buildings. For 1888-89 the corresponding figure is Rs. 7,01,050, and the saving would have been greater but for an increase of Rs. 27,996 in the cost of establishments employed under Civil officers for the collection of revenue on the Orissa, Midnapore and Sone Canals, an increase which was due chiefly to the greater amount of work involved in realising the heavier collections. On the whole, therefore, there has been a substantial saving in the charges incurred for establishment on the maintenance and management of the canals. The occurrence of this saving can be traced chiefly to the increased amount of work carried out by the Irrigation staff on Roads and Buildings, and the consequent transfer of a larger share of establishment charges from the Irrigation to the Roads and Buildings Branch. Similarly the larger Capital expenditure in 1888 89, on works not chargeable to Revenue, has tended to relieve the canal Revenue account of a portion of its establishment charges.

5. The revenue collected in the last three years on the works mentioned in the above statement is shown below:—

Head.	Revenue.		
	1888-89.	1887-88.	1886-87.
	Rs.	Rs.	Rs
Water-rates	10,22,352	7,69,362	10,43,342
Navigation	9,74.105	9,21,4[illegible]2	7,88,685
Miscellaneous	60,298	66,838	80,171
Total ...	20,56,755	17,57,682	19,12,198
Less refunds of revenue	13,463	16,166	16,950
Net total receipts ...	20,43,292	17,41,516	18,95,248

6. The recovery of the revenue derived from water-rates from the depression of 1887-88 was assisted by the character of the irrigation season of 1888-89, which was such as to lead to a full appreciation of the value of canal water. On the Sone Canals, where collections had been to some extent suspended in consequence of the agitation of the previous year, the receipts rose from Rs. 5,19,586 to Rs. 7,59,556, and it is clear that the efforts of the managing staff to restore public confidence in the canals have been attended with success. Irrigation in Orissa also has received a fresh impetus, and the collections of 1888-89 are higher than those of any year since 1882-83, while on the Midnapore Canal, where no great development of irrigation can be expected owing to the limited and fluctuating character of the source of supply, there is a slight improvement on the results of 1887-88.

7. The activity of irrigation in 1888-89 is evident from the figures in the following table, where actual areas irrigated during the last three years are shown :—

		1888-89.	1887-88.	1886-87.
		Acres.	Acres.	Acres.
Orissa	Kharif	156,319	108,867	75,115
	Rabi	2,779	502	2,440
	Perennial	194	137	154
	Total ...	159,292	109,506	77,709
Midnapore	Kharif, including boro rice crop	69,777	65,864	69,762
Sone	Kharif	69,628	57,595	30,082
	Rabi	69,817	27,501	16,662
	Perennial	4,600	6,265	11,626
	Hot-weather	11,762	13,855	15,278
	Five-year lease ...	200,102	210,164	194,556
	Total ...	355,909	315,380	268,204
	Total Major Works ...	584,978	490,750	415,675
Sarun	Kharif	3,897	1,699	566
	Rabi, including hot-weather...	3,316	2,519	1,580
	Total Minor Works ...	7,213	4,218	2,146
GRAND TOTAL, MAJOR AND MINOR WORKS ...		592,191	494,968	417,821

8. The "earnings" of the year's work, of which the above table shows the extent, are as follows :—

	Water rates earned. 1888-89.
	Rs.
Orissa Canals	2,42,808
Midnapore Canal	1,31,433
Sone Canals	8,05,790
Sarun Canals	21,850
Total ...	12,01,881

These sums represent the whole of the liabilities incurred by cultivators on crops raised by canal water during the year. In previous years the definition of the word "earnings" has been restricted to the assessments, which were not only fully completed, but also legally recoverable within the year. Exact returns of "earnings" (in the wider sense of the word now adopted) are not available for previous years ; but owing to the extended use of canal water already noticed, the earnings of 1888-89 considerably exceed those of 1887-88 and 1886-87. This is in favour of good collections in 1889-90.

9. The arrears of water-rates outstanding at the close of each of the last three years are shown in the following statement :—

NAME OF CANAL.	ARREARS.		
	1st April 1889.	1st April 1888.	1st April 1887.
	Rs.	Rs.	Rs.
Orissa Canals	1,14,597	92,109	87,458
Midnapore Canal	84,773	56,493	50,749
Sone Canals	3,80,613	4,11,281	2,31,582
Sarun Canals	34,927	33,492	32,712
Total ...	6,14,910	5,93,375	4,02,501

NOTE.—The figures are those of the Examiner, Public Works Accounts ; but it is believed that they will require correction, since they do not agree with those given by the Superintending Engineer, which again differ from those of the Collector.

The reduction effected in the outstanding balances of the Sone Canals is less than the increments in the balances of the Orissa and Midnapore Canals taken together. The progress made with collections on each system can be compared as follows :—

	Percentage of current demand adjusted.	Percentage of arrear demand adjusted.
Sone Canals	60	80
Midnapore Canal	34	89
Orissa Canals	46	72

Those results (except in the case of the Sone Canals) cannot be considered good, and it is again necessary to call the attention of district officers in Orissa and Midnapore to the steady growth of the arrear balances as a subject which demands early and energetic treatment.

10. In Navigation Receipts improved results are shown on all the lines except the Calcutta and Eastern Canals. There is reason to suppose that the income from this route, on which the traffic receipts are greater than on all the other canals of the province combined, is being unfavourably effected by the competition of the Central Bengal Railway. Under arrangements which existed before the construction of the railway, when the canals had a monopoly of the traffic, and which have not yet been altered, tolls are only collected at the Calcutta terminus of the boat-route; and the railway is thus enabled to tap the canal traffic before the latter has paid toll, and therefore at present competes with the canal at an advantage. The actual tollage collections for each system are given below for three years—

Year.	Orissa Canals.	Midnapore Canal.	Hidgellee Tidal Canal.	Orissa Coast Canal.	Sone Canals.	Calcutta and Eastern Canals.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1886-87	58,604	1,09,693	51 904	28,587	49,665	4,73,183	7,71,706
1887-88	60,628	1,26,574	46,406	52,428	50,984	5,71,872	9,09 292
1888 89	69,830	1,46,760	53,910	65,010	52,163	5,65,491	9,53,163

On the Nuddea rivers the collections fell from Rs. 1,98,318 to Rs. 1,91,749.

11. The number of complaints which came up for disposal during the year was altogether 14,710, of which 12,506 were complaints made during the year and 2,204 were old complaints left over for disposal from the files of the previous year—

	Orissa.		Midnapore.		Sone.		Total.	
	Number.	Percentage on cases disposed of.	Number.	Percentage on cases disposed of	Number.	Percentage on cases disposed of.	Number.	Percentage on cases disposed of.
Pending from last year	1,503	.....	84	.....	625	.....	2,212	.....
Filed during the year	3,789	.....	1,647	.....	7,062	.....	12,498	.....
Total ...	5,292	.....	1,731	.....	7,087	.....	14,710	.....
Disposed of { Admitted	.....	.....	216	11·5	2,253	39·0	.....	.....
Disposed of { Dismissed	.....	.....	1,276	88·5	3,519	61·0	.....	.....
Total ...	4,110	100 0	1,492	100·0	5,772	100·0	11,374	100·0
Pending on 31st March 1889 ...	1,182	.....	239	.....	1,915	.....	3,336	.....
Area irrigated in 1888-89 ... Acres	159,294		69,777		355,909		584,978	
Proportion of acres irrigated to one complaint (current year only).	42·04		42 5		50 4		46·7	
Ditto for 1887-88 (including cases pending from previous years).	37·9		78·3		46·7		47·5	

The above table, which is an abstract of the information given in the various Revenue reports on the filing and disposal of complaints, is defective in the case of the Orissa Canals, where the Deputy Revenue Superintendent has failed to distinguish the claims admitted and those rejected. Also, since in the reports of 1887-88 current and pending complaints were taken together, it is impossible to exactly compare the work done in each year. As, however, the number of complaints, current and pending, in 1887-88 was 10,332, being in the ratio of 1 : 47·5 to the number of acres irrigated, while in 1888-89 the number of current complaints is 12,498 and the ratio 1 : 46·8, it is clear that not only was the number of complaints greater in the latter year, but the proportion of complaints with regard to the area irrigated has also risen. In the case of the Midnapore Canal that proportion has almost doubled—an unsatisfactory state of affairs which should have received attention in the reports of the officers responsible.

12. The number of certificates issued for the recovery of arrears has fallen from 28,805 to 19,536, and the number pending at the close of the year from 19,536 to 15,880—

	Pending at close of 1887-88.	Instituted during 1888-89.	Total.	Disposed of.	Pending at close of 1888-89.
Midnapore	5,310	11,201	16,511	9,326	7,185
Orissa	9,047	5,259	14,306	8,553	5,753
S ne	5,179	4,216	9,395	6,453	2,942
Total ...	19,536	20,676	40,212	24,332	15,880

The reduction in the cases pending has been effected entirely on the Sone and Orissa Canals, as in Midnapore there is a considerable and highly unsatisfactory increase, notwithstanding that the number of cases disposed of is actually higher than in either of the other systems. The percentage, however, of cases disposed of, as compared with the number pending and instituted, is not so good, the respective percentages being for Midnapore 56·5, Orissa 59·8, and Sone 68·7. Judging by the very large proportion of cases struck off compared with the total number disposed of in Midnapore, namely, 5,478, or nearly 59 per cent., it appears probable that sufficient care is not exercised in issuing these certificates, and that much unnecessary work is in consequence thrown on the officer who is trusted with their disposal.

13 The Lieutenant-Governor notes with satisfaction the names of the various officers to whom Colonel Harrison awards special praise, and he takes this opportunity, on Colonel Harrison's connection with the province being severed, of recording his acknowledgment of the excellent service rendered by him during his tenure of the office of Chief Engineer and Joint-Secretary, and of the admirable tact and judgment which Colonel Harrison has always displayed in administering the department confided to him.

ORDER.—Ordered that a copy of this Resolution, and of the Note and its accompaniments, be submitted to the Government of India, in the Public Works Department, for information; also that copies be forwarded to the Appointment, Revenue, and Financial Departments of this Government; the Board of Revenue, Lower Provinces; the Commissioners of the Presidency, Burdwan, Patna, and Orissa Divisions; the Collectors of the 24-Pergunnahs, Nuddea, Hooghly, Midnapore, Burdwan, Patna, Shahabad, Gya, Sarun, Cuttack, and Balasore; the Superintending Engineers of the Orissa, South-Western and Sone Circles; and Examiner, Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

C. W. I. HARRISON, *Lieut.-Col.*, R.E.,
Offg. Joint-Secy. to the Govt. of Bengal,
P. W. Dept.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

REVENUE REPORT.

Note by LIEUTENANT-COLONEL C. W. I. HARRISON, R.E., *Chief Engineer, on the Canal Revenue Reports for the year* 1888-89.

THE Capital expenditure on Irrigation Works, for which Capital accounts are kept, amounted during the year 1888-89 to Rs. 9,19,020 for direct and Rs. 23,231 for indirect charges—

	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.
Capital expenditure not charged against Revenue	7,74,547	18,229	7,92,776
Minor Works and Navigation, Provincial	1,44,473	5,002	1,49,475
Total ...	9,19,020	23,231	9,42,251

2. The total Capital outlay at the end of the year 1888-89, including indirect charges, was as follows:—

	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.
Major Irrigation Works.			
Productive Public Works ...	5,88,83,503	16,58,558	6,05,42,061
Minor Works and Navigation.			
Protective grants—Imperial ...	8,66,000	...	8,66,000
Ordinary revenue { Imperial and Provincial } ...	98,67,297	2,81,485	1,01,48,782
Total ...	6,96,16,800	19,40,043	7,15,56,843

3. The above outlay is divided under the different projects in the following statement:—

Works.	During 1888-89.			To end of 1888-89.		
	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Canals ...	6,23,439	15,279	6,38,718	2,35,37,322	5,31,481	2,40,68,803
Midnapore Canal ...	2,665	53	2,718	82,66,010	1,83,711	84,49,721
Hidgellee Tidal Canal ...	..	...	...	17,95,489	44,807	18,40,296
Sone Canals ...	1,48,413	2,897	1,51,340	2,52,84,682	8,98,559	2,61,83,241
Total ...	7,74,547	18,229	7,92,776	5,88,83,503	16,58,558	6,05,42,061
Minor Works and Navigation.						
Tirhoot Project ...	...	...	...	5,31,425	74,650	6,06,075
Damoodah Project ...	(—)1,200	...	(—)1,200	1,51,141	16,239	1,67,380
Calcutta and Eastern Canals	47,862	1,507	49,369	52,27,428	61,057	52,88,485
Orissa Coast Canal ...	97,811	3,495	1,01,306	41,54,073*	1,02,356	42,56,429
Sarun Canals ...	...	...	...	6,69,230	27,183	6,96,413
Total ...	1,44,473	5,002	1,49,475	1,07,33,297	2,81,485	1,10,14,782
GRAND TOTAL ...	9,19,020	23,231	9,42,251	6,96,16,800	19,40,043	7,15,56,843

* Includes expenditure of Rs. 8,66,000 from famine protective grants.

REVENUE.

4. The total revenue receipts, working expenses and charges for interest in respect of the works which are classed as Major Irrigation Works during 1888-89, and four previous years, are shown in the following statement:—

PARTICULARS.	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts from all sources ...	13,81,179	10,87,080	13,69,679	15,74,272	12,99,876
Working expenses (direct and indirect charges)	14,87,295	15,72,170	13,76,137	11,98,291	12,27,414
Net revenue	(—)1,06,116	(—)4,85,090	(—)6,458	3,75,981	72,462
Charges for interest	23,39,849	23,13,446	22,91,006	22,66,710	22,29,979
Deficit	24,45,965	27,98,536	22,97,464	18,90,729	21,57,517
Rate per cent. on Capital outlay ...	4·04	4·68	3·88	3·23	3·72

INTEREST.

5. The total amount of interest payable to the Imperial Treasury on account of Major Irrigation Works for the year 1888-89 is Rs. 23,39,849.

FINANCIAL RESULTS.

6. The following statement shows the financial results of both Major Irrigation Works and Minor Works and Navigation, of which Capital and Revenue Accounts are kept, to the close of the year 1888-89:—

	Major Irrigation Works.	Minor Works and Navigation.
	Rs.	Rs.
Direct revenue	1,51,85,443	2,05,73,482
Working expenses (direct charges)	1,58,26,535	79,97,925
Results on direct charges only ... Loss ...	6,41,092	Profit ... 1,25,75,557
Indirect charges debitable to revenue ...	8,27,907	... 2,05,967
Results on both direct and indirect charges ... ... Loss ...	14,68,999	Profit ... 1,23,69,590
Charges for interest on Capital	3,40,63,927	Not calculated.
Net results, including interest to end of 1888-89 ... ... Loss ...	3,55,32,926	.....

Thus on Major Irrigation Works the net loss including interest is Rs. 3,55,32,926, or 58·69 per cent., of the gross Capital outlay, including all charges.

7. The financial results of Minor Works and Navigation, of which only revenue accounts are kept, are shown below:—

	Rs.
Direct revenue	78,22,208
Working expenses (direct charges)	42,44,206
Results on direct charges only ... ... Profit ...	35,78,002
Indirect charges debitable to revenue	2,21,813
Results on both direct and indirect charges ... Profit ...	33,56,189

EXPENDITURE.

8. The expenditure on, and receipts from, Irrigation, Navigation, and Agricultural Works during the year 1888-89, as compared with those of the year 1887-88, are shown below:—

EXPENDITURE.	1888-89. Rs.	1887-88. Rs.
42—Major Irrigation Works, Working Expenses—		
Provincial	11,87,295	15,72,170
43—Minor Works and Navigation—		
Irrigation and Navigation Works—		
Provincial	7,19,087	8,26,214
Agricultural Works—		
Provincial	7,83,156	7,17,359
Contributions	9,773	5,849
Total ...	7,92,929	7,23,208
49—Irrigation—Capital expenditure not charged against revenue	7,92,776	5,57,976
GRAND TOTAL ...	37,92,087	36,79,568

Receipts.	Rs.	Rs.
XXIX—Major Irrigation Works—Direct receipts—		
Provincial	13,81,179	10,87,080
XXX—Minor Works and Navigation—		
Irrigation and Navigation Works—		
Provincial	8,57,793	8,54,038
Agricultural Works—		
Provincial	9,733	8,606
Total ...	22,48,705	19,49,724

Receipts.

Note.—Commencing with the year 1888-89, "Refunds of revenue" are treated as reduction of receipts and not as charge against Working Expenses, and "Indirect charges" are shown in addition to direct charges under Working Expenses, in accordance with the suggestion contained in Government of India's letter No. 154*I*, dated 15th August 1889.

9. The areas irrigated during the year 1888-89 and the four preceding years, by the Major Irrigation Works, are shown in the following statement:— Area irrigated.

Year.	Orissa Canals.				Midnapore Canal.				Sone Canals.				Total.			
	Kharif.	Rabi.	Perennial.	Total.	Kharif.	Rabi.	Perennial.	Total.	Kharif, including five-year leases.	Rabi.	Perennial.	Total.	Kharif.	Rabi.	Perennial.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1888-89 ...	156,319	2,779	194	159,292	66,498	3,309	...	69,777	281,402	69,817	4,690	355,909	504,219	75,905	4,794	584,978
1887-88 ...	108,867	502	137	109,506	65,864	...	...	65,864	281,614	27,501	6,295	315,380	456,345	28,003	6,402	490,750
1886-87 ..	75,115	2,440	154	77,709	69,762	...	...	69,762	239,916	16,662	11,626	268,204	384,793	19,102	11,780	415,675
1885-86 ...	70,563	1,003	171	72,339	70,604	...	...	70,604	271,433	50,610	10,527	332,570	412,600	51,613	10,698	475,513
1884-85 ..	54,181	2,994	197	57,372	69,294	...	...	69,294	283,841	77,558	9,262	370,661	407,316	80,552	9,459	497,327

The year's working and its financial results will now be dealt with separately for each of the canal systems of the province.

ORISSA CANALS.

10. The Capital, Interest, and Revenue Accounts of these canals are given below:—

1.—CAPITAL ACCOUNT. Capital account.

Heads of account.	Outlay during 1888-89.	Outlay to end of 1888-89.
Direct charges.	Rs.	Rs.
I.—Works	4,88,452	1,69,03,279
II.—Establishment	1,06,375	43,03,670
III—Tools and plant	15,043	20,01,555
IV.—Suspense accounts	21,307	1,46,525
Loss by exchange	...	2,68,070
Total ...	6,31,177	2,36,23,099
V.—*Less*—Receipts on Capital account ...	7,738	85,777
Net total direct charges ...	6,23,439	2,35,37,322
Indirect charges.		
Capitalization of abatement of land revenue ...	386	32,842
Leave and pension allowances	14,893	4,98,639
Total indirect charges ...	15,279	5,31,481

The capital outlay of 1888-89 shown in this statement represents the progress made with the works provided in the revised estimates of the Orissa Project. Owing to a slight scarcity of food-supply in the district, a more plentiful supply of labour was available than has been the case for some years, and the amount of earthwork carried out on canal and distributary banks, drainage works and protective embankments was more satisfactory. The additional lengths completed and the fresh areas brought under command, or provided with distributaries, will be shown in a later paragraph. The list of masonry works and buildings either put in hand or brought to completion also indicates a fair rate of progress during the year.

INTEREST ACCOUNT.

2.—INTEREST ACCOUNT.

			Rs.
Interest charges to end of 1887-88	...	...	1,28,54,084
Ditto for 1888-89	...	...	9,29,024
Total		...	1,37,83,108

REVENUE ACCOUNT.

3.—REVENUE ACCOUNT (Actuals).

	Expenditure.			Receipts.	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
	Rs.	Rs.		Rs.	Rs.
DIRECT CHARGES.					
I.—Maintenance and Repairs.			Water-rates ...	1,51,365	16,87,867
			Navigation ...	77,908	10,64,564
			Miscellaneous ...	14,242	2,44,248
			Direct revenue realized in England ...	...	38,686
Works (extensions and improvements) ...	...	1,644			
Repairs ...	2,36,694	35,47,088			
Compensation ...	...	53	Total ...	2,43,515	30,35,365
Establishment, including direction and accounts ...	70,201	8,27,613	*Less*—Refunds of revenue ..	221	3,582
Tools and plant ...	21,156	2,14,313			
Profit and loss ...	...	640			
Total ...	3,28,051	45,91,351			
II.—Revenue management.					
Irrigation establishment ...	43,161	6,69,722			
Navigation establishment ...	15,734	1,75,731			
Total ...	58,895	8,45,453			
III.—Direct expenditure in England ...	...	6,945			
Total direct charges ...	3,86,946	54,43,749			
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ..	...	...			
Leave and pension allowances ..	18 073	2,62,248			
			Net total receipts	2,43,294	30,31,783
Total Indirect Charges	18,073	2,62,248	Deficit ...	1,61,725	26,74,214
Total Working Expenses	4,05,019	57,05,997	Total ...	4,05,019	57,05,997

* These are now shown under the suggestion of the Government of India.

11. The income calculated on "earnings" of the year and expenditure are shown below:— EARNINGS

Expenditure.	Amount.	Earnings.	Amount.
DIRECT CHARGES.			
I.—Maintenance and repairs.	Rs.		Rs.
Repairs	2,36,694	Water-rates	2,42,808
Establishment, including direction and accounts	70,201	Navigation	77,908
Tools and plant	21,156	Miscellaneous	14,242
Total ...	3,28,051	Total ...	3,34,958
II.—Revenue management.			
Irrigation establishment ...	43,161		
Navigation ditto ...	15,734		
Total ...	58,895	*Less*—Refunds of revenue ...	221
Total direct charges ...	3,86,946	Net earnings	3,34,737
Indirect charges	18,073	Deficit	70,282
Total working expenses ...	4,05,019	Total ...	4,05,019

By the orders of the Government of India, a change is now introduced in the method of calculating the amount of water-rates shown as "earned" in the above statement. Under the rules in force on the Orissa canals, a portion of the water-rates assessed in any year do not become legally due until the 1st May, and a further portion till the 1st June, of the following year. Hitherto, therefore, as explained in previous Revenue Reports, the earnings of each year have been calculated by excluding those instalments of the assessments which would not become due till the year following; but, on the other hand, including those instalments of the assessments of the previous year, which, though undoubtedly earned in that year, have only become due in the year under report. The amount thus arrived at has hitherto been shown in the statistical table IVC attached to each report as the amount of revenue assessed. In this and future reports, however, the 'earnings' of a year will be taken to mean the amount of the liabilities incurred by cultivators for water supplied during that year, without regard to the date on which those liabilities may become legally recoverable. The statement also now for the first time includes, on the expenditure side, indirect as well as direct charges. EARNINGS.

12. The lengths of the canals and distributaries in operation at the close of the year 1888-89, compared with 1887-88, are given in the statement following:— LENGTH OF CANALS.

Name of Canal.	1888-89.								1887-88.							
	Navigable canals.	Canals for irrigation only.	Distributaries and village channels.	Area protected from flood.	Area under command.	Area provided with distributaries.	Area irrigated.	Percentage of area irrigated to area provided with distributaries.	Navigable canals.	Canals for irrigation only.	Distributaries and village channels.	Area protected from flood.	Area under command.	Area provided with distributaries.	Area irrigated.	Percentage of area irrigated to area provided with distributaries.
	Miles	Miles.	Miles.	Acres.	Acres.	Acres.	Acres.		Miles	Miles.	Miles.	Acres	Acres.	Acres.	Acres.	
Kendraparah system. — Kendraparah ...	39	...	354½	129,421	101,110	93,532	73,796	70·8	39	..	348½	129,421	101,110	91,000	54,404	54·2
Kendraparah system. — Ditto extension	15	..	..	8,960	7,000	...			15	...	...	8,960	7,000	.		
Kendraparah system. — Gobri (including extension.)	21	...	.	27,251	53,290	...			21	...	...	27,251	53,290	.		
Kendraparah system. — Pattamoondeo		47	34½	65,600	51,250	10,172			..	47	32½	65,600	51,250	9,387		
Taldundah system. — Taldundah .	27		71½	19,520	15,250	15,250	40,361	71·0	27	..	71½	19,520	15,250	15,250	31,227	54·6
Taldundah system. — Machgoun	4	28	122½	44,928	97,057	41,600			4	15	122½	44,928	68,206	41,600		
High Level Canal, Range I	33	...	131½	80,128	48,815	48,815	18,099	37·0	33	..	131½	80,128	48,815	47,780	15,813	33·0
Total Mahanuddee Series ..	139	75	713	375,808	373,772	209,419	131,279	62 9	139	62	706½	375,808	344,921	205,017	100,943	49 2
High Level Canal, Range II	12½		.	.	10,000		2,385	...	12½	..	.	...	10,000		994	...
Ditto, Range III	19	..	47½	..	57,500	42,500	25,633	60·3	19	...	11½	...	57,500	21,770	7,569	35·0
Jajepore Canal ...	6½		...	..	70,000	.		...	..	...	.	..	...	.	...	...
Total Brahmini-Byturni Series ...	38	..	47½	...	137,500	42 500	28,018	65 9	31½	...	11½	...	67,500	21,770	8,563	39·3
Total Orissa Canals	177	75	760½	375,808	511,272	250,919	159 299	63·4	170½	62	718	375,808	412,421	226,787	109,506	48 2

There has been an increase of 6½ miles in the length of canals intended for the purposes both of irrigation and navigation, and of 13 miles in the length of those to be used for irrigation only. The former increase is due to the completion of the Jajepore Canal in the Brahmini-Byturni Series, which was opened for traffic in the month of August 1888, and the latter to the completion of the Machgong Extension Canal in the Mahanuddee Series, as far as the 32nd mile, up to which point it has been filled with water.

There has been no increase in the length of village channels, and none are in progress upon any of the canals, but the length of distributaries has increased during the year to the extent of 42½ miles, of which 6¾ miles are on the Kendrapara and Pattamoondi Canals, and 35¾ miles on the High Level Canal, Range III, where the whole length of distributaries proposed to be constructed has been completed with the exception of about two miles of main distributary, and a few minor branches required for affording irrigation to the high ground near the Main Canal and the Orissa Trunk Road. The area protected from flood remains the same as it was in the previous year, as the Daib embankment has not yet been fully completed, but there is an increase of 98,851 acres in the area under command in consequence of the completion of that portion of the Machgong Extension Canal which lies above the 32nd mile, and of the Jajepore Canal, the former of which has added 28,851 acres, and the latter 70,000 acres to the area commanded. The area provided with distributaries has also increased to the extent of 24,132 acres, of which 3,402 acres, are on the Kendrapara, Pattamoondi and High Level, Range I, canals of the Mahanadi Series, and 20,730 acres, on the High Level Canal, Range III, of the Brahmini-Byturni Series.

RAINFALL.

13. The rainfall of the year 1888-89 and of the previous year in the Cuttack and Balasore districts is given in the Statistical Table No. IVE. In both districts the total fall registered is very nearly the same as that registered in 1887-88.

The average rainfall at the thirteen stations situated within the area commanded by the Orissa canals for nineteen years is 55·18 inches, whilst the fall of the year at the same stations was 47·94, or 7·24 inches below the average.

From the statement of rainfall at the eleven stations in the upper districts drained by the Mahanadi, which has been supplied by the Superintending Engineer, it appears that the average fall during the year under review was 43·08 inches against 52·18 inches of the year 1887-88, showing a decrease of 9·10 inches. The average for the last seven years up to and including 1887-88 was 46·22 inches, so that the fall of the year under review is somewhat below the average.

From the table below, which gives the average rainfall observed during the kharif and rabi months during the last seven years at thirteen stations within the tract irrigated by the Orissa canals, it is evident that the kharif rains, though on the whole more plentiful than usual, were unequally distributed, a very short fall being registered in July and October, while that of August was unusually large. The deficiency in October was, however, partly made up by an increase in November, when the quantity registered was 2·01 inches in excess of the fall of the previous year :—

		AVERAGE OF THIRTEEN STATIONS.					
		1883-84	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Kharif season ...	July ...	13·03	9·58	10·68	10·65	11·67	8·91
	August ...	9·69	7·45	10·44	9·86	8·49	21·61
	September ...	9·77	11·29	10·08	14·66	6·12	8·36
	October ...	1·78	5·06	4·84	6·87	2·69	1·11
	Total ...	34·27	33·38	36·04	42·04	28·97	39·99
Rabi season ...	November ...	0·15	0·23	1·26	1·56	0·87	2·88
	December ...	1·53	0·07	1·20	0·45	...	...
	January ...	0·09	0·15	0·39	0·48	1·70	0·06
	February ...	1·58	2·63	0·05	...	1·26	0·81
	Total ...	3·35	3·08	2·90	2·49	3·83	3·75
	Whole year ...	57·18	50·42	51·49	60·05	47·79	49·07

The amount of rain and its distribution among the canals of the Orissa system is given in the following statement which covers the last five years:—

Year.	Mahanuddee Series.									Brahminee-Bytturni Series.					
	Kendraparah system.			Taldundah system.			High Level Canal, Range I.			High Level Canal, Range II.			High Level Canal, Range III.		
	Kharif.	Rabi.	Whole year.	Kharif.	Rabi.	Whole year.	Kharif.	Rabi.	Whole year.	Kharif	Rabi.	Whole year.	Kharif.	Rabi.	Whole year.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1884-85	35 65	4·75	54·75	29 52	2·15	47·85	32·24	2·45	52·15	31 78	2·94	46·24	30·24	2·86	48·34
1885-86	34·50	1·82	52·64	36·44	2·82	50·43	31·63	3·14	49·88	34·14	2·64	55·41	30 20	2·80	55·27
886-87	39 97	2 66	63·59	42·86	3 97	64·76	41·67	1·53	63·16	44·02	1·48	62·18	42·72	2·08	64·79
1887-88	28·93	3·74	49·35	28·59	3 39	46·00	26·48	1·98	44·77	37·98	2·49	47·04	30·15	3·26	52·85
1888-89	37·07	3·28	45·50	44·39	4·54	53 28	38·78	1·93	44·64	42·72	2·37	51·16	44·56	2·87	55·80

14: The following statement shows the areas irrigated and yearly rainfall since the year 1879-80:— IRRIGATION

Year.	Kharif.	Rabi.	Perennial.	Total.	Rainfall.
	Acres.	Acres.	Acres.	Acres.	Inches.
1879-80 ..	105,186	3,616	236	109,038	60 85*
1880-81	112 171	4,877	173	117,221	85·10*
1881-82 ...	126,611	5,403	264	132,278	56·92†
1882-83 ...	128,530	4,100	398	133,028	59·03†
1883-84 ...	47,035	1,381	344	48,760	57 21†
1884-85 ...	54,181	2,994	197	57,372	50·40†
1885-86 .	70,563	1,605	171	72,339	52·59†
1886-87 ...	75,115	2,440	154	77,709	60·07†
1887-88 ...	108,867	502	137	109,506	47·84†
1888-89 ...	156,319	2,779	194	159,292	47·94†

* Mean of observations in Cuttack and Marsaghai.

† Ditto ditto at 13 stations throughout canal-irrigated area.

The spread of kharif irrigation has again been very marked, as the area which has taken water during 1888-89 is greater by 47,452 acres than the irrigated area of 1887-88, and greater by 27,789 acres than the irrigated area of any year since the construction of the canals. The partial failure of the July rains and the drought in October were the main causes which brought about this result.

To compare with 1887-88, of the increase of 47,452 acres in kharif irrigation, 18,019 acres are contributed by the High Level Canal, Range III, where the rate of increase is as much as 241 per cent., and 16,257 acres by the Kendraparah Canal. All the canals, however, show improved results, the lowest rate of increase being on the High Level Canal, Range II, where it was 18 per cent. Of the 2,227 more acres of rabi irrigated, 2,114 acres represent the increase on the Kendraparah Canal.

The whole area of all crops irrigated, being 159,292 acres, bears a ratio of 63 per cent. to the area under command of distributaries, already given as 250,919 acres. The ratio by canals is as follows:—

	1887-88.	1888-89.	Increase.
Kendraparah system	54·2	70·8	16·6
Taldundah ditto	54·9	71·0	16·1
High Level, Range I	32·0	37·0	5·0
High Level, „ II	No distributaries.		
High Level, „ III	35 0	60·3	25·3

15. The whole of the irrigated area was assessed. The figures below show the method of assessment alongside of the figures of the two preceding years for purposes of comparison:—

		1888-89.	1887-88.	1886-87.
		Acres.	Acres.	Acres.
Kharif ...	Five-year leases ...	152,282	102,863	73,699
	Annual leases ...	57	37	68
	Unauthorized irrigation ...	3,981	5,975	1,354
Rabi ...	...	2 779	501	2,439
Perennial ...	Sugarcane	193	130	149
Total, including unauthorized irrigation ...		159,292	109,506	77,709
Total, excluding unauthorized irrigation ...		155,311	103,531	76,355

It is observed, however, that though the figures used in the statements in this and the preceding paragraphs, which give a total of 159,292 acres as the area irrigated, are those adopted by the Superintending Engineer throughout his report of the year's operations, yet it is stated that the area actually under lease at the close of the year was 146,046 acres only. The difference thus observable between the area irrigated and that leased is described by the Superintending Engineer "as due to the areas provisionally entered in the leases of some of the canals, the lands commanded by which have not as yet been cadastrally surveyed, having been smaller than they were afterwards found to be when the measurements of the area actually watered came to be made." And the Deputy Revenue Superintendent summarises the results of the year as follows:—

	Rs.
Area leased and assessed during the year	1,30,258
Unauthorized irrigation	8,981
Assessed area of which measurements were completed after the close of the year	25,053
Total ...	1,59,292

1888-89, AN ANXIOUS PERIOD FOR THE PROSPERITY OF THE CANALS.

16. With the close of the year 1882-83 ended the first period of five-year leases which had been introduced in these canals in 1878-79; and since during that period it was deemed desirable to cause all the leases to end at the same time, with a view to permitting of an alteration of the rate simultaneously over the whole of the Orissa system. Should such alteration be considered advisable, all the leases given subsequently to 1878-79 were given nominally for five years, that is to say, at the five-year lease rate, but they really expired simultaneously on the 31st March 1883. With 1883-84 therefore commenced a new period of five years, and the year happening to be one somewhat favourable to canal irrigation, a considerable area was leased, all the leases for which lapsed on the 31st March 1888, causing the year under review to be opened with a leased area of 45,716 acres only. Up to the end of June very few fresh leases had been entered into, and matters began to wear a serious look so far as the interests of the canals were concerned; and it was not until the demand for canal water arose in July that any good start was made. During that month and August, notwithstanding the heavy rain at the close of the latter month, leases were obtained for some 43,000 acres of either new irrigation or renewals of old leases. A small increase in September and the drought in October added some 40,000 acres more, bringing the total by the end of November to about 131,000 acres. Subsequent measurement and the correction of estimated areas in the leases eventually raised the area to that given above.

RANGE I, HIGH LEVEL CANAL, A SPECIAL CAUSE FOR ANXIETY

Range I of the High Level Canal was the subject of special anxiety, since leases for no less than 13,000 acres out of the 14,605 acres shown as leased in 1887-88 lapsed at the close of that year. It was feared that many of the leases would not be renewed, but the scantiness of the rainfall in October had a most marked effect, and the area now leased is larger than it has been in any previous year.

17. At first sight the area now reached seems to lead to the conclusion that all the land under lease at the end of 1882-83 had now been re-leased. Such, however, is not the case, and dates given in the Superintending Engineer's Report show that though the area leased up to the end of 1888-89, viz. 146,046 (it is fairer to take this figure than 159,292 acres, since the latter is the result of careful measurement which was wanting in 1882-83), is 13,018 acres more than the area leased up to the close of 1882-83, yet that, if the areas by canals be compared, it appears that even if none of the leases on the older canals be for entirely fresh irrigation, *i. e.*, for land which had not been irrigated up to 1882-83, a considerable area of lapsed irrigation has still to be recovered, the increase of 13,018 acres being practically wholly due to increase in the High Level Canal, and especially Range III thereof. The remaining canals have not yet recovered the depression which followed the expiry of the first set of five-year leases as will be seen from the following table:— LAPSED IRRIGATION STILL TO BE RECOVERED.

Name of Canal.	Area leased.		More.	Less.
	1888-89.	1882-83		
	Acres	Acres.	Acres.	Acres.
Kendrapara, including Gobri	53,867	60,374	...	6,507
Gobri Extension	1,499	..	1,499	...
Patramoondi	10,549	12,091	...	1,545
Taldundah	10,285	10,719	...	434
Machgong	27,241	34,012	...	6,771
High Level Ranges I and II	19 162	14,244	4,918	...
Ditto Range III	23,443	1,585	21,858	...
Total ...	146,046	133,028	28,275	15,257

18. It is clear from what has been said above that the Orissa Canals are very dependent on the nature of the season at a critical period for their prosperity; and there is no doubt but that, from the point of view of canal interests only, the drought of October 1888 was the most opportune occurrence that could have taken place, inasmuch as it happened just as the former leases had expired and there was no interval during which the cultivators might have come to think that they could do without canal water and to doubt whether it was to their interest to insure their lands against drought by a small yearly payment. The drought made them thoroughly appreciate the benefits of canal irrigation; and, as a matter of fact, it was in the real interests of the cultivators themselves that no such interval should occur; for nothing but continuous irrigation will enable them to be prepared with the means and method of irrigating with success and with universal benefit when drought really comes. THE DROUGHT OF 1888-89 VERY BENEFICIAL IN EVERY WAY.

19. The information regarding five-year leases is not sufficiently exact to permit of a correct conclusion being formed as to how the area under five-year leases is progressing, especially whether lapsed leases are being renewed. It would be as well if this point were properly taken up by the Superintending Engineer and Deputy Revenue Superintendent in their reports for the year now in progress, since the renewal of leases will be a better proof than anything else that the Ooriya is at last taking kindly to canal irrigation. RENEWALS OF LEASES.

20. At the commencement of the year under review the accounts showed an unrealized balance of Rs. 96,567, of which Rs. 92,110 was for water-rates, and Rs. 4,457 for miscellaneous revenue. The additional assessments which fell due within the year on account of previous years, as well as the year under review, came to Rs. 2,04,535, of which Rs. 1,96,765 was for water-rates. Thus, including arrears, the gross amount, which was liable to be collected during 1888-89, was Rs. 3,01,102, of which Rs. 1,60,328 was realized and Rs. 24,003 either remitted or written off as irrecoverable. Accordingly, the year closed with an unrealized balance of Rs. 1,16,771, of which Rs. 1,14,597 was for water-rates. ASSESSMENT AND COLLECTIONS.

This balance is larger than that at the end of the previous year. The increase is due, in a great measure, to the large increase on the assessments during the year. The outstanding balances, however, include considerable demands on account of irrigable but unirrigated beali rice lands—a class of lands which, in cases where beali rice is the only crop grown on them, it has now been decided to strike out of the assessments of the blocks in which they are situated. The outstandings, therefore, will undergo some reduction when these

orders are carried into effect, as well as from the remission recommended by the Deputy Revenue Superintendent. of submerged and damaged leased areas, till now assessed at full rates. The actual realizations during the year, though larger than those of the previous five years, would have been much better, but for the damage to crops caused by drought and abnormal cyclonic weather. The attention of the Deputy Superintendent has, however, been drawn to the steady increase in the outstanding balances, and he has been requested to submit a special report on the measures he would propose for the reduction of these arrears, and on what hopes may be entertained of effecting the reduction at an early date. A detailed account of the balances is given below:—

Year in which amount fell due.	Water-rates.	Miscellaneous.
	Rs.	Rs.
1881-82	327	76
1882-83	108	246
1883-84	435	456
1884-85	1,123	476
1885-86	2,642	458
1886-87	8,040	463
1887-88	32,907	...
1888-89	69,015	...
Total arrears ...	1,14,597	2,175

21. The results of the year as regards water-rate collections are shown below:—

	Outstandings of all years up to and including 1887-88.			Demands due in 1888-89 for the irrigation of that year.		
	Rupees.	Percentage of demands outstanding on 31st March 1888.	Rupees.	Rupees.	Percentage of demands for the year.	Rupees.
Outstandings to end of 1887-88, with assessments made in 1888-89 ...	...	100·0	1,61,837	...	100·0	1,27,038
Adjustments made in 1888-89 ... { Collections ...	93,402	57·7		57,963	45·6	
Adjustments made in 1888-89 ... { Remissions ...	22,851	14·1		62	0·04	
Total adjustments ...	...	71·8	1,16,253		45·7	58,025
Outstanding on 1st April 1889 ...	...	28·1	45,584		54·3	69,013

The percentage of adjustment for old outstandings is 71·8 against 73 6 of the last year, but that for the current demand is 45 7 against 45·1. The proportion of remissions is greater, being 14·1 against 5·7; it was mentioned in last year's report that considerable remissions would have to be made. So far as current demands are concerned, the percentage is the same in both years, being 0·04. The percentage of balances of old arrears still remaining to be collected at the close of the year has risen from 26·4 to 28 1, but the collection of the current year compares favourably with that of the year previous, as the unrealized percentage has fallen from 54·9 to 54·3.

COMPLAINTS.

22. The number of complaints received and the progress made in settling them is shown below:—

	Number pending from last year.	Number filed during year.	Total.	Disposed of during year.	Balance left pending.
Complaints against assessments	1,503	3,789	5,292	4,110	1,182
Miscellaneous	129	887	1,016	957	59
Total ...	1,632	4,676	6,308	5,067	1,241

The diminution in the arrears is satisfactory, and it is stated that all complaints arising out of the assessment of unauthorized irrigation have been disposed of as far as the Canal Revenue office is concerned. The number of new complaints was swollen by applications based on the recent orders of the Bengal Government regarding the remission of beali lands in five-year blocks, and by hose relating to fully assessed lands which had been damaged by inundation.

23. The Superintending Engineer thus compares the kharif duties obtained from the several canals with those obtained in the previous year:— DUTY OF WATER

NAME OF CANAL.	Rainfall during the kharrif season.		Duty of quantity entering canal per cubic foot.		Duty of quantity utilised per cubic foot.	
	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.
	Inches.	Inches.	Acres.	Acres.	Acres.	Acres.
Kendraparah Canal System ...	37·07	28 93	92·48	67·39	100 25	71·42
Ditto Canal	36·65	25·59	86·22	89·38	97·92	93 77
Pattamoonda do.	41·19	33 10	84·04	30 20	119·16	37·73
Gobri do.	37 91	35 63	92 33	41 36	99·81	81·62
Taldanda Canal System ...	44 39	28 59	82·60	79·60	217·40	98 70
High Level Canal, Range I ...	38 78	26 48	70·73	57·02	112·03	77·72
Ditto ditto, II ...	42·72	27·98	30 99	40·05	30 99	74·24
Ditto ditto, III ...	44 56	30·15	200·07	64·67	200·07	64 67

So that, except in the case of the High Level Canal, Range II, a higher average duty for the whole season was obtained; a natural consequence of the greater rainfall. In the case of the exception noted, a very high discharge was passed into this canal during October, partly in order to raise the level of the pool above the Byturni weir, for the purpose of benefiting the irrigation on Range III, but principally in order to facilitate irrigation from Range II by raising the level of the water. In the return of the Executive Engineer the whole of this discharge was represented as having been utilised, which, as the Superintending Engineer points out, can hardly have been the case. In future, care will be taken to show the quantity utilised by deducting the discharge at the outfall of the canal into the Byturni river.

During October, when the demand for irrigation was at its highest, and great pressure was brought on the canals, the average duty obtained was 53·48 acres per cubic foot entering the canals, and 60 32 acres per cubic foot utilised.

24. During the year 256 experiments on the outturn of crops were made, half on irrigated and half on unirrigated lands. On lands irrigated during 1888-89, the average weight of paddy per acre is 16·23 maunds and of straw 20 12 maunds, against 16·83 and 25·62, which are the respective averages of the five previous years. On unirrigated lands the figures for the year are 11·02 maunds of paddy against 12·46 maunds obtained in previous years, and 14·02 maunds of straw against an average of 19·05. The average yield per acre during the year therefore from irrigated as well as from unirrigated lands, though greater than it was in 1887-88, must both for grain and straw be considered but moderate. CROP EXPERIMENTS.

The difference in favour of irrigation, as shown by these experiments, is 5·21 maunds per acre in grain and 6·10 maunds in straw, the figures obtained from the averages of previous years being 4·37 and 7·57 respectively.

25. The cost of revenue establishment of the year was Rs. 43,161. The following statement shows the details of the year under review with those of the three previous years:— REVENUE ESTABLISHMENT.

	1888-89.	1887-88.	1886-87	1885 86
Establishment under Collector.	Rs.	Rs.	Rs.	Rs.
Superior officers and permanent and temporary establishment, including travelling allowance	31,389	28,749	26,007	24,028
Contingencies	2,889	2,218	2,625	1,948
Headmen's fees	1,680	2,208	1,209	1,229
Establishment under Executive Engineer.				
Permanent and temporary establishment ...	3,052	2,964	2,942	2,854
Contingencies	...	...	...	...
Water-regulation establishment ...	4,151	4,161	4,222	4,245
Total ...	43,161	40,300	37,005	34,304
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department	1,60,328	1,46,039	1,05,775	1,16,940
Percentage ...	26·9	27·6	34·98	29·3

26. The management of the navigation of the canals and the collection of the revenue from this source is in the hands of the engineering staff. The NAVIGATION.

receipts, which are tabulated in statistical table ID, include tolls collected on boats and rafts using the canals, and the earnings of the transport service maintained by Government between Bhuddruck on the High Level Canal and Cuttack, a distance of 74 miles. The collections from tolls and transport service for the last ten years are shown below:—

	Tolls.	Transport service.	Total.
	Rs.	Rs.	Rs.
1879-80	62,389	35,686	98,075
1880-81	41,297	30,105	71,402
1881-82	53,219	29,987	83,206
1882-83	66,736	41,737	1,08,473
1883-84	61,602	48,550	1,10,152
1884-85	52,784	27,018	79,802
1885-86	64,093	19,919	84,012
1886-87	58,664	8,384	67,048
1887-88	66,628	4,376	71,004
1888-89	69,830	8,078	77,908

The cost of the establishment employed in collecting tolls during the year was Rs. 9,474, or Rs. 319 in excess of the previous year, due partly to the opening of the Jajepore Canal for traffic in August 1888, on which Rs. 156 was incurred, and partly to the Toll Collector at the Jumboo lock of the Kendrapara Canal having been employed there for a complete year instead of only for a portion of a year, as was the case in 1887-88.

TRAFFIC

27. The following statement compares the traffic (excluding the transport service) of all the canals in Orissa during the year under review with that of the previous year:—

CANALS.	Miles open.	Tollage on boats and rafts		Number of boats plying cargo and passengers		Tonnage of cargo and passenger boats.		Value of cargo and rafts.		Tollage per mile of canal.	
		1888-89	1887-88.	1888 89.	1887 88	1888-89	1887-88.	1888 89.	1887-88	1888-89.	1887-88.
	No.	Rs.	Rs.	No.	No.	Tons.	Tons.	Rs.	Rs.	Rs.	Rs.
Taldundah and Machgong Canals	31	4,310	6,267	926	1,430	25,280	44,568	1,02 110	94,665	139 0	202·1
Kendraparah and Gobri Canals (including extension)	75	51,786	46,65	5,160	5,011	81,677	81,718	34,18,930	36,11 975	717·1	622·1
High Level Canal, Range I	83	6,642	8,306	2,958	2,975	22,080	24,118	6,28,530	8, 6, 00	201·3	251·7
Ditto, ditto II	12½	3,392	4,085	1,542	1,995	10 732½	17,3 8	2,95,8 2	3,7 4 2	271·4	326·8
Ditto, ditto III	19	1,601	1,311	788	673	7,39 ½	6,716	1,30,472	1,2 ,311	84 3	69 0
Jajepore Canal*	6½	99		101	.	534	...	34,003	...	15 2	...
Total	177	69,830	66,628	11,475	12,084	151,074	175,906	45,90,957	50,32 93	394 5	399·7

* This canal was opened to traffic on the 11th August 1888.

This return only takes count of laden boats, of which there is a decrease both in number and tonnage. Of empty boats, on which reduced tollage rates are charged, the number which made voyages is 1,473 more than last year. The gross receipts from tollage are accordingly greater by Rs. 3,202, the total number of boats by 864, and the total tonnage by 30,267 tons. There is a decrease in rafts. Moreover, as the receipts from Government traffic have declined by Rs. 3,183, or 36 per cent., in consequence of the completion of the public works for which materials were boated in the previous year, the general traffic by private boats on the whole shows improvement, for though the actual weight of cargo, as exhibited in statistical table 11D, appears to have slightly declined, the data on which that table is based cannot be depended on for accuracy. The classes of goods which show increases are grain, piece-goods, and building materials, while metals and salt have declined.

The number of passengers carried has increased by 10,015, being 17·21 per cent. in excess of the number who travelled in the year previous.

The fluctuations on the various canals are considerable The increase on the Kendraparah Canal is larger by 7,319 than the decrease which occurred in 1887-88, so that the passenger traffic on this canal appears to have completely recovered from the temporary depression ascribed to the loss of the two ocean passenger steamers running between Calcutta and Chandbali; but the passenger traffic of the High Level Canal although increasing has not yet recovered itself. On the Taldandah Canal there is a still greater decrease than there was last year due to the same cause apparently, viz., that the passengers are not carried the short distance from the head of the canal at Jobra to the canal bridge situated on the crossing of the Pilgrim road.

28. The transport service maintained by Government between Bhuddruck and Cuttack was worked at a loss of Rs. 4,585 as against a loss of Rs. 5,712 in 1887-88. The number of passengers and the weight of goods carried were about double what were carried in 1887-88, but the line was worked at an increased cost of Rs. 3,383, steamers instead of accommodation boats being employed. TRANSPORT SERVICE

29. The miscellaneous receipts during the year under review are compared by sub-heads with those of the previous year in the following statement:— MISCELLANEOUS RECEIPTS

SOURCE OF REVENUE.	YEAR IN WHICH RECEIVED.		DIFFERENCE.	
	1888-89.	1887-88.	Increase.	Decrease
	Rs.	Rs.	Rs.	Rs.
Plantations	1,450	1,131	319	...
Rent of lands	5,857	5,678	179	...
Canal produce	895	377	518	...
Rents of buildings	4,855	5,000	...	145
Sale of old materials	31	...	31	...
Fisheries	877	768	109	...
Sale of water	41	96	...	55
Miscellaneous	236	1,121	...	885
Total ...	14,242	14,171	1,156	1,085

30. The revenue receipts and working expenses of the Orissa canals for the last ten years are shown in the following statement:— FINANCIAL RESULTS.

PARTICULARS.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
RECEIPTS.	Rs.	Rs	Rs	Rs	Rs	Rs.	Rs.	Rs.	Rs.	Rs
Water-rates	1,67,747	1,78,047	1,84,290	1,80,325	1,11,856	51,245	1,06,842	96,976	1,37,809	1,51,365
Navigation	98,075	71,402	83,206	1,08,473	1,10,152	79,802	84,013	67,048	71,004	77,908
Miscellaneous	23,365	20,329	15,655	31,212	15,860	12,538	16,496	15,587	14,171	14,242
Total ...	2,79,187	2,69,778	2,83,151	3,20,010	2,77,868	1,43,585	2 07,350	1,79,611	2,23,044	2,43,515
Less—Refunds of revenue ...	512	777	414	385	68	78	6	92	365	221
Net total receipts ...	2 78,675	2,69,001	2,82,737	3,19,625	2,77,800	1,43,507	2,07,344	1,79,519	2,22,679	2,43,294
WORKING EXPENSES.										
Direct charges.										
I.—Works, maintenance and repairs—										
Works (extensions and improvements) .	206	...	..	..		...	...	..	..	
Repairs	2,58,450	1,99,554	2,17,753	2,22,431	1,89,617	2,03,187	2,22,690	3,52,761	3,10,980	2,36,694
Establishment, including direction and accounts	51,918	45,896	50,109	51,160	43,600	50,958	51,199	51,117	96,153	70,201
Tools and plant ...	8,389	12,266	13,348	14,923	11,292	15,167	19,159	15,486	16,391	21,156
Direct expenditure in England	1,265	1,262	1,990	2,061	427	...	...	...	...	
Total ...	3,20,320	2,58,978	2 83,139	2,90,575	2,44,916	2,69,262	2,93,048	4,40,364	4,25,534	3,28,051
II.—Revenue management—										
Irrigation establishment ...	38,794	38,818	37,022	37,003	33,432	33,999	34,304	37,005	40,360	43,161
Navigation establishment	8,153	7,501	8,085	13,578	14,081	12,398	15,219	15,471	15,125	15,734
Total ...	46,947	46,318	45,107	50,580	48,113	46,397	49,523	52,476	55,485	58,895
Total direct charges	3,67,267	3,05,291	3,28,246	3,41,155	2,93,049	3,15,659	3,42,571	5,01,840	4,80,949	3,86,946
Indirect charges.[*]										
Capitalized abatement of land revenue	...	...	...	...	...	...	...	...	...	...
Leave and pension allowances	17,047	15,889	16,407	13,741	12,840	13,629	14,101	18,703	21,501	18,073
Total indirect charges .	17,047	15,889	16,407	13,741	12,840	13,629	14,101	18,703	21,501	18,073
Total working expenses ...	3,84,314	3,21,180	3,44,653	3,54,896	3,05,939	3,29,288	3,56,672	5,20,543	5,02,450	4,05,019
Net revenue (deficit)	1,05,639	52,179	1,21,916	35,271	68,069	1,85,781	1,49,328	3,41,024	2,79,771	1,61,725

[*] Indirect charges are now, by the suggestion of the Government of India, included in this statement of financial results.

It will be noticed that the deficit which was so great in the years 1886-87 and 1887-88 has now been reduced to one comparable with the years 1884-85 and 1885-86, owing chiefly to the absence of expenditure on account of the breaches in the Mahanadi weir, but also to an improvement in the receipts. If the earnings of the two years 1887-88 and 1888-89, be compared, the deficit of Rs 2,45,842 is found to be reduced to Rs. 70,282; but it must be remembered that, in addition to the causes given above, in the former year the assessments did not include amounts not legally due until after the close of the year, whilst such are included in the year under review.

MAINTENANCE.

31. The outlay on maintenance, exclusive of that on the transport service which amounted to Rs. 6,403, during the year under review and the two preceding years is distributed under the sub-heads as follows:—

	1888-89.	1887-88.	1886-87.
	Rs.	Rs.	Rs.
Head works	71,168	1,94,272	2,34,500
Main canals	1,11,712	76,219	83,735
Distributaries	31,451	25,594	21,458
Drainage and protective works	15,960	10,778	6,690
Total ...	2,30,291	3,06,863	3,46,383

HEAD WORKS.

Out of a total expenditure of Rs. 71,168 on head works, Rs. 62,796 represents the cost of maintaining the weirs, divided as follows:—

NAME OF WEIR.	Length.	EXPENDITURE.		RATE PER RUNNING FOOT.	
		1888-89.	1887-88.	1888-89.	1887-88.
	Feet.	Rs.	Rs.	Rs.	Rs.
Naraje	3,833	10,140	26,106	2·64	6·81
Mahanadi	6,349	26,539	1,32,941	4 18	20·93
Beropa	1,980	5,573	5,015	2·81	2·53
Brahmini	4,000	7,471	7,692	1·86	1·92
Pattia	783	5,698	6 526	7 27	8 34
Byturni	1,026	1,440	977	1 40	0 95
Burrah	526	5,935	7,165	11·28	13 62
Total of all weirs ...	18,497	62,796	1,86,432	3·39	10·08

As the rebuilding of the portions of the Naraje and Mahanadi weirs which had been carried away in 1886 was completed in 1887-88, the repairs necessary in 1888-89 were again of a normal character. A portion, however, of the apron of the Mahanadi weir was again injured by floods, involving a special outlay of Rs. 7,658 on its reconstruction.

The maintenance of the remaining head works, including river protective works, embankments and buildings, amounted to Rs. 8,372. Of these the buildings, on which quadrennial repairs were carried out, show an increase of Rs. 1,665.

MAIN AND BRANCH CANALS.

32. The following statement gives the cost of maintenance of each main and branch canal separately for four years:—

CANALS.	Miles.	1888-89.		1887-88.		1886-87.		1885-86.	
		Cost.	Per mile.	Cost.	Per mile.	Cost.	Per mile.	Cost.	Per mile.
	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Kendrapara ...	39	39,370	1,009	17,339	445	21,004	538	30,789	789
Ditto extension ...	15	2,611	174	2,385	159	2,741	183	2,998	200
Gobri ...	15	6,434	429	4,500	300	3,975	265	7,806	520
Do. extension	6	4,725	787	4,047	674	3,599	6 0	9,101	1,517
Pattamoondee	47	8,769	186	11,347	241	14,162	3 0	18,629	396
Taldundah ...	27	17 027	630	8,998	333	9,971	369	14,213	526
Machgong	19	8,360	440	4,163	219	4,041	212	2,901	152
High Level, Range I ...	33	13,771	417	12,230	370	12 862	389	15,892	481
Ditto, do. II ...	12½	4,315	345	4,420	353	5,295	421	6,653	532
Ditto, do. III ...	19	6,330	333	6,905	358	6 215	327	10,621	559
Tota ...	23·½	1,11,712	480	76,219	328	83,795	360	1,19,661	514

The average mileage rate of maintenance, therefore, shows an increase of more than 46 per cent., in which nearly all the canals have shared. On the Kendraparah canal, where the increase is greatest, gate renewals were carried out on three locks, and both on this and other canals navigated by steamers, a great deal of earthwork was carried out in order to repair the erosion of the banks which were in many places protected by bamboo revetments. On the canals generally there has been a great increase in the amount of earthwork carried out, as well as in silt clearance and the removal of weeds. The quantity of silt cleared by hand was 9,904,436 cubic feet, and the cost Rs. 26,217, giving an average rate of Rs. 2·65 per thousand, while in the previous year only 3,586,859 cubic feet were cleared at an average rate of Rs. 2·77. The amount of silt dredged was 304,077 cubic feet, and the cost Rs. 2,751, an average rate of Rs. 9 per thousand cubic feet. The cost of repairs to the canals, taking them all together, is far higher than in the two previous years, but is still below the cost in the somewhat abnormal year 1885-86; and an examination of the above figures and of those given in greater detail in the Superintending Engineer's report appears to show that a very large proportion of the increased cost as compared with the previous year is due to the effects of steamer navigation on the canal banks, or to outlay on navigation works, or in meeting the requirements of navigation. This remark applies with more or less force to all the navigable channels of the Kanchraparah system. It may be that the lower expenditure in the two previous years was due to a comparative neglect of the necessary repairs, but there appears to be grave reason for doubting whether these narrow channels are suitable to a heavy steamer traffic. The repairs during the year under review have certainly been effected with care; and should the experiment of planting the screw-pines along the water's edge have the anticipated result, the money will have been well spent, and a great saving in earthwork generally may be anticipated. But the experiment has not been tested sufficiently as yet, and should it not prove a success, either an entirely new method must be adopted for protecting the banks or little or no diminution in cost can be looked for.

The damage caused by steamer traffic cannot, however, be given as an explanation of the high rate on the navigable channel of the Taldandah canal nor on the Machgoing canal which has not yet been made navigable; and yet on both these the expenditure, as will be seen from the statement above, is double that of the previous year. In both cases the increased expendiure is ascribed to the larger amount of dressing and turfing required on the slopes and to increased charges for silt and weed clearing. The conclusion apparently to be drawn is that either these necessary repairs have been neglected in past years, or that a somewhat excessive zeal has been exhibited in "polishing." No special explanation is given for an abnormal collection of silt or an abnormal wear and tear to the slopes.

Of course some of the increased charges are beyond control, such, for instance, as the damage done to buildings by the cyclone of September 1888.

33. The cost per mile for repairs of distributaries for the last four years is shown below:— DISTRIBUTARIES.

	Miles.	1886-89.		1887-88.		1888-87.		1889-90.	
		Cost.	Per mile.	Cost.	Per mile.	Cost.	Per mile	Cost.	Per mile.
DISTRIBUTARIES.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Kendrapara Canal System	333½	14,530	40·53	13,510	40·48	11,073	33·17	13,156	39
Taldanda Canal	71½	2,960	41·26	2,242	31·35	2,232	31 21	2,297	32
Machgong Canal	122½	5,725	46·83	5,182	42 38	4,071	33·30	3,743	30
High Level Canal, Range I ...	117½	9,240	78·35	4,630	39·74	4,081	34·80	5,325	45
Total	644½	31,451	48·77	25,594	39·69	21,457	33·27	24,521	38

On the High Level Canal, Range I, the quantity of earthwork and turfing required for the repairs of the distributary banks was much larger than usual—

an increase in which all the other canals share, though in a less degree. It is possible that this was due to the abnormal heavy rainfall of August, but this is not stated.

DRAINAGE AND PROTECTIVE WORKS

34. There was also an increase during the year in the cost of drainage and protective works, amounting in all to Rs. 5,182; and occurring on the Kendrapara, Machgong and Gobri Extension Canals, and upon Ranges II and III of the High Level Canal. Besides greater outlay on clearing the drainage channels of silt, expenditure of a special character took place on the repairs of a large stone groyne above the Brahmini weir, and on the slopes and crests of the protective embankments.

NECESSITY FOR CAREFUL CONTROL OF THE EXPENDITURE.

35. As mentioned above, the increased expenditure both on canals and distributaries may have been due to a certain extent to natural causes, heavy rainfall, cyclone, &c., but a careful examination of the figures appears to show a distinct tendency to increased expenditure of a nature which may be guarded against and controlled. There is a happy mean between allowing works to fall into disrepair and a lavish expenditure in aiming at excessive trimness of banks and slopes, and there appears to be reason for doubting whether this happy mean has yet been found on the Orissa Canals, and the Superintending Engineer's earnest attention must be directed to this matter, as the only hope of ever making these canals pay even their working expenses appears to be in reducing expenditure as well as increasing receipts.

FLOODS.

36 The floods in the Mahanadi and Byturni rivers were moderate ones, but the flood in the Brahmini was slightly higher than the flood of 1879, although it was lower than the high flood of 1881 below the weir at Janapore. The highest flood in the Mahanadi river rose to 85 80 on the gauge at Naraje, as compared with 87·70, which was the highest reading obtained during the floods of the previous year, and with 92·10, which was the level reached at the same place by the great flood of 1872. The highest flood of the year in the Byturni river stood at a height of 5·40 feet above the reading of the flood of 1887 below the weir at Acquapadda.

MIDNAPORE CANAL.

CAPITAL ACCOUNT

37. The Capital, Interest and Revenue Accounts of this Canal are given below:—

I.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1888-89	Outlay to end of 1888-89.
DIRECT CHARGES.	Rs.	Rs
I.—Works	(—)11	53,42,663
II.—Establishment	1	19,22,355
III.—Tools and plant	(—)429	8,93,489
IV.—Suspense accounts	3,133	43,496
Loss by exchange	.....	94,800
Total ...	2,694	82,96,803
V.—*Less* receipts on Capital account	29	30,793
Net total direct charges ...	2,665	82,66,010
INDIRECT CHARGES.		
Capitalization of abatement of land revenue	53	141
Leave and pension allowances	.....	1,83,570
Total indirect charges ..	53	1,83,711

2.—INTEREST ACCOUNT. INTEREST

			Rs.
Interest charges to end of 1887-88	...	...	50,87,143
Ditto for 1888-89	...	...	3,30,587
Total	...		54,17,730

3.—REVENUE ACCOUNT (Actuals). REVENUE ACCOUNT.

	Expenditure.			Receipts	
	During 1888-89.	To end of 1888-89		During 1888-89.	To end of 1888-89
Direct charges.	Rs.	Rs.		Rs.	Rs.
I.—*Maintenance and repairs.*					
Works (extensions and improvements) ...	.....	40,738	Water-rates ...	91,016	15,43,174
Repairs	1,06,139	19,89,766	Navigation ...	1,49,480	16,78,434
Compensation	.....	30	Miscellaneous ...	11,299	1,93,535
Establishment, including direction and accounts	36,111	4,82,981	Total ...	2,51,795	34,15,143
Tools and plant ...	24,335	3,01,424	*Less*—Refunds of revenue	285	1,122
Total ...	1,66,585	28,14,939	Net total receipts ...	2,51,510	34,14,021
II.—*Revenue management.*					
Irrigation establishment	25,927	3,60,442			
Navigation ditto ...	7,550	1,34,738			
Total ..	33,477	4,95,180			
Total direct charges ..	2,00,062	33,10,119			
Indirect charges.*					
Capitalized abatement of land revenue ...	.....	.....			
Leave and pension allowances	9,742	1,53,479			
Total indirect charges ...	9,742	1,53,479			
Total working expenses	2,09,804	34,63,598			
Profit	41,706	(—)49,577			
Total ...	2,51,510	34,14,021			

* These are now shown under the suggestion of the Government of India.

The capital outlay during the year was Rs. 2,665, and to the end of the year Rs. 82,66,010 against Rs. 83,16,768, the amount of the estimate sanctioned by the Secretary of State.

The period allowed for the completion of the estimates sanctioned by the Secretary of State for the Midnapore canal expired on the 31st March 1888. At that date, however, certain works, which were regarded as falling within the scope of the original project, and therefore as properly chargeable to capital, still remained to be carried out. In these circumstances, the Government of India decided that no further extension of time for the completion of the project, as such, should be allowed, but, following the procedure laid down in Public Works Code, volume II, Chapter XV, paragraph 156, directed that a schedule of the works chargeable against capital, which it might be found necessary to carry out, should be annually submitted for sanction, and application for funds made in accordance with the provisions of the paragraph quoted.

EARNINGS.

38. The revenue account calculated on "earnings" of the year and expenditure is given below :—

EXPENDITURE.	Amount.	Earnings	Amount.
DIRECT CHARGES.	Rs.		Rs.
I.—Maintenance and repairs.			
Works (extensions and improvements) ...	...	Water-rates	1,31,433
Repairs	1,06,139	Navigation	1,46,760
Compensation	...	Miscellaneous ...	14,019
Establishment, including direction and accounts	36,111		
Tools and plant	24,335		
Total ...	1,66,585	Total ...	2,92,212
II.—Revenue management.			
Irrigation establishment	25,927		
Navigation ditto	7,550		
Total ...	33,477	*Less*—Refunds of revenue	285
Total direct charges ...	2,00,062	Net total receipts ...	2,91,927
INDIRECT CHARGES	9,742		
Total working expenses ...	2,09,804		
Profit	82,123		
Total ...	2,91,927		

Under the rules of the Midnapore canal, water is only supplied, as a general rule, from June to November, and the ordinary water-rates fall due on the 1st February, or within the limits of the year in which the water is supplied. Under ordinary circumstances, therefore, the amount of the 'earnings' of any year should coincide with the assessments of the year. In practice, however, a small portion of the assessments do not fall due till after the close of the year to which they belong; for instance, in cases of boro rice irrigation, where the whole of the assessment cannot well be completed before the close of the official year, or of lands illicitly irrigated, where the justice of the demand is disputed by the cultivator, and the assessment is consequently delayed. It may be stated that, of the sum of Rs. 1,31,433 shown above as the amount of water-rates earned during 1888-89, Rs. 1,18,243 are assessments completed within the year, Rs. 11,900 are assessments completed after the close of the year, while Rs. 1,290 is the estimated amount of the assessments which for various reasons it has not yet been possible to complete.

RAINFALL.

39. The following table shows the rainfall for the year 1888-89 and the four previous years at five registering stations in the Midnapore district:—

STATIONS.	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	Average of 19 years previous to 1888-89.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Midnapore	68·00	55·38	49·39	76·20	57·19	55·97
Panchkoorah	59·47	56·21	50·56	86·03	48·84	56·27
Luchmapore	60·93	47·00	56 35	81·84	Not available.	
Mowah	60·14	49·76	55 93	81·07	Ditto.	
Contai	59·24	54·41	48·24	76·45	77·30	68·20

Of these stations, the first four only are within or contiguous to the area commanded by the Midnapore canal. The rainfall of the year, though up to

the average, was very unequally distributed, as an examination of the quantity recorded in each month from June to November will show:—

		Inches.
June	1888	3·67
July	„	18·57
August	„	21·16
September	„	6·58
October	„	1·08
November	„	0·29

The rainfall here shown for each month is the average of the quantities recorded at the four stations which lie within the irrigated tract.

LEASES AND IRRIGATION.

40. The area of all crops leased and irrigated is returned by the Deputy Revenue Superintendent in charge of the assessments at 69,777 acres. Of this area 62,374 acres were kharif lands leased for five years; while of 4,034 acres of kharif leased for one year, 122 acres were voluntarily leased, and 3,912 acres assessed on the ground of having been surreptitiously irrigated. Lastly, though the right of Government to use the water of the Cossye during the rabi months is restricted, arrangements, such as have been common of recent years, were made for the irrigation of a limited area of boro rice, and 3,369 acres were so irrigated under annual leases.

The Superintending Engineer returns the area leased and irrigated at 65,865 acres, thus differing from the return of the Deputy Revenue Superintendent by 3,912 acres. The explanation appears to be that the latter area was illicitly irrigated, and the assessment was not completed until after the close of the year. For this reason it was not included in the final month's irrigation returns of 1888-89; and the Superintending Engineer appears to have made a mistake in saying in his report that it was included.

The five-year leases in force during 1887-88 amounted to 66,628 acres, of which 32,875 acres expired on the 31st March 1888. During 1888-89 the renewals were 28,620 acres. The area of the leases which lapsed on the 31st March 1889 was 11,377 acres, an error having been made in the figures given in last year's note.

Of 69,777 acres assessed, 60,263 acres were irrigated from the Midnapore weir, 8,914 from the Panchkoorah weir, and 600 from the tidal reaches. Similar information for three years is supplied in the following table, where the percentage which the area irrigated in each year bears to that commanded and provided with distributaries is shown:—

Particulars.		Totals provided for in the revised estimate.	Midnapore Weir, Ranges IV & V.			Panchkoorah Weir, Range III and Tidal reaches, Ranges I and II.			Total.		
			1888-89.	1887-88.	1886-87.	1888-89.	1887-88.	1886-87.	1888-89.	1887-88.	1886-87.
Length of distributaries and branch canals ...	Miles.	220 12	229·04	229·04	229·04	53·25	53·25	53·25	283·19	283·19	283 19
Area provided with distributaries ...	Acres.	125,000	100,000	100,000	100,000	25,000	25,000	25,000	125,000	125,000	125,000
Area irrigated ...	„	...	60,263	59,362	62,225	9,514	6,502	7,537	69,777	65,864	69,762
Percentage of area irrigated to that commanded		...	60 26	59·36	62·23	37·9	26·01	30 15	55·82	52·64	55·81

In his summary of the irrigation season, the Superintending Engineer quotes as follows from the Executive Engineer's report:—

"The improvement on the previous year's irrigation, though slight, is still satisfactory, when the adverse circumstances under which we were placed last year is taken into consideration. The rains as stated before began to fall from September and ceased altogether in October. The demand for irrigation became general; but with the failure of the rains the discharge of the river Cossye began to diminish until in October only 800 or 900 cubic feet were available to irrigate over 65,000 acres. In November, when the crops were greatly in need of irrigation, the river discharges went down to 300 cubic feet. With careful regulation, this was made to irrigate the area leased, and it is a matter for congratulation that no general failure in the irrigated rice crops occurred on any distributary."

The conditions here described, a demand becoming more intense in proportion as the supply failed, are such as to severely test the administration of any canal; and the dual system of administration in force at Midnapore, where the negotiations with those who require the water on the one hand and the actual control of the supply on the other, rest with distinct and independent officers,

would appear to be inherently weak when subjected to such a strain. As the Collector remarks with much force:—"There was a great rush for water in September and October, and a large number of leases were executed on the mere chance of getting it." And, to quote the words of the Deputy Revenue Superintendent, "this" (the Revenue) "Department was found fault with for taking more leases than the Engineer officers could supply water with." The expediency of a change of system, under which leases should be controlled by the Engineers who already control the supply, has been strongly urged by the Revenue officers, supported by the Engineers. Such a system has, however, been already in force on the Sone canals, where its efficiency has been severely questioned, and has been the subject of prolonged and exhaustive enquiries, the report on which is now about to be submitted to the Government of India. Until a final decision has been pronounced on that report, it would be obviously premature to amend the Midnapore system after the Sone pattern.

In connection with the remarks in last year's note (paragraph 35) on this same subject, the following remarks by the Superintending Engineer are worthy of consideration when any new system is proposed to be introduced:—

"The matter of making the leases of all land irrigable from the same outlet or same distributary terminable on the same date was under consideration, and it is probable that if this system is adopted, and the rate successively year by year increased for subsequent leases entered into on the same distributary, that irrigation would become more general.

"At present the disinclination to renew until forced by absolute failure of rainfall leads largely to surreptitious irrigation, which must be very largely in excess of that reported, at the expense in a dry season of those who have leased honestly. Penalty rates are not enforced, and the dishonest irrigator finds himself admitted to a lease for the remaining years of a five-years' lease or a five-years' lease as the case may be on the same yearly rate as a lessee for the whole term, or at any rate on no worse terms than the applicant for a lease.

"This is the system on which irrigation has been worked for years in Midnapore, and a greater premium on declining to enter into leases till the last moment could not be afforded. The fact is very well appreciated by those who have entered into leases, and it is no matter for surprise if they fall into similar ways as soon as their leases expire. By insuring their crops for five years, they get no corresponding advantage.

"Were the proposed system adopted, it might be possible to apportion water more fairly in years of scanty rainfall by first attending to the wants of the lessees on the oldest leased distributary."

COMPLAINTS.

41. The number of irrigation complaints was 1,731, of which 1,647 were filed during the year and 84 pending from the previous year. 1,218 of the complaints were objections to certificates issued under the Public Demands Recovery Act, most of them in cases of surreptitious irrigation, while in other cases the applicants alleged either that no water was supplied or that the water-rates were excessive. The remaining complaints appear to have been of an ordinary character. Of 1,492 claims disposed of, 216 were decided entirely in favour of the petitioners, while the remainder appear to have been either rejected or in some cases compromised by the applicants entering into leases. The number left pending at the close of the year was 239.

DUTY OF WATER.

42. The kharif duty calculated on the discharge utilized was 164 acres per cubic foot for the area under Midnapore weir and 184 acres for that under Panchkoorah weir. The former figure, which gives a much higher duty than what was obtained last year, must be received with caution, as the calculations of the discharges on which it is based are not trustworthy.

ASSESSMENTS AND COLLECTIONS.

43. The following comparative statement shows the balances, assessments, and recoveries of water-rates on the Midnapore canal since the year 1884-85:—

YEAR.	Amount outstanding at commencement of year.	Amount falling due during the year.	Total for recovery.	Cash realization.	Remitted or written off.	Balance at the end of the year
	Rs	Rs.	Rs.	Rs.	Rs.	Rs.
1884-85	1,44,691	1,22,321	2,67,012	1,16,807	38,993	1,11,212
1885-86	1,11,212	1,10,868	2,22,080	1,08,709	43,399	69,972
1886-87	69,972	1,06,750	1,76,722	1,08,834	17,139	50,749
1887-88	50,749	1,02,532	1,53,281	90,837	5,951	56,493
1888-89	56,493	1,23,337	1,79,830	91,016	4,041	84,773

Thus, while the whole amount recoverable, including arrears, was Rs. 26,549 more than in 1887-88, the collections were only Rs. 179 more; the percentage of collections being 50·6 as against 59·3.

Out of the sum of Rs. 1,23,337 shown in the above table as falling due within the year, Rs. 1,18,243 were water-rates of the year itself. On this the collections were Rs. 39,863 and the remission Rs. 9, the total adjustments 33·7 per cent.

The amount recoverable on account of previous years was Rs. 61,586, of which Rs. 56,493 were arrears, properly so called, while Rs 5,093 were water-rates earned in previous years, but not recoverable till 1888-89. The amount adjusted was Rs. 55,185, or 89·02 per cent.

This large reduction of arrears and the smallness of the sum (Rs. 4,041) which it was found necessary to treat as irrecoverable are satisfactory features in the returns of the Deputy Revenue Superintendent. A different view must be taken of the collection of the current demand, from which a balance of Rs. 78,372, or 66·3 per cent., is left unsettled. In partial explanation, it is stated that Rs 39,302 had of necessity to stand over; of these, Rs. 5,053 were water-rates on boro rice, which is only reaped at the end of the year, Rs. 19,338 were demands contested by the ryots which could not be collected till the objections were heard and settled, and Rs 14,911 were demands which it will probably be necessary to strike out, as good reasons for remission, in some cases insufficiency of supply, in others loss of crop from breaches in the Cossye embankment, are known to exist.

MISCELLANEOUS RECEIPTS.

44. In miscellaneous revenue, the demand was Rs. 18,870, of which Rs. 5,503 were for arrears. The collections were Rs. 12,287 and the balance Rs. 6,035. The miscellaneous receipts collected by the Executive Engineer amounted to Rs. 1,731.

CERTIFICATES.

45. The number of certificates undisposed of at the end of the previous year was 5,310. In addition, 11,201 new certificates were filed, 5,017 being for surreptitious irrigation and 6,184 for satisfaction of demands under kabulyats: 9,326 were disposed of—in 3,847 cases by the realization of the demand, while the other 5,478 cases were struck off; 7,185 cases, of which only 661 were more than six months' old, were left unsettled at the end of the year, and with these good progress has since been made. It is stated that no certificates were issued for the realisation of the current demand.

REVENUE ESTABLISHMENT.

46. The cost of revenue establishment was Rs. 24,728 against Rs. 21,600 of the year preceding. The percentage of cost on the total collections is 23·93 against 20·34. The increased expenditure is chiefly accounted for by the payment of Rs. 2,135 as headmen's fees, on which nothing was spent in the previous year. The Commissioner remarks that in the report of the Deputy Superintendent nothing is said of the effect produced by the payment of commission to headmen. The Collector says the same, and notes further that, on the other hand, an attempt has been made to reduce expenditure by eliminating one collection with and making over its work to the others; but as this was done on the assumption that the leased area would not extend beyond its then existing limit, the success of the experiment has yet to be assured. Judging by the results the experiments have not so far answered since the collections have fallen off, and the percentage of cost of collection on the demand has increased.

NAVIGATION AND TRANSPORT SERVICE.

47. The receipts under navigation increased from Rs. 1,26,574 in 1887-88 to Rs. 1,46,760 in 1888-89. The usual particulars regarding the traffic carried during the last ten years in vessels other than those of the Calcutta Steam Navigation Company are given below:—

DESCRIPTION.		1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
Miles open	No.	53	53	53	53	53	53	53	53	53	53
Toll collections ...	Rs.	91,861	97,145	96,060	1,06,157	1,06,951	1,19,797	1,25,331	1,01,054	1,06,460	(a)1,25,332
Rate of toll per mile	,,	1,733	1,455	1,850	2,002	2,055	2,260	2,364	1,906	2,046	2,365
Number of boats, including empty boats	No.	52,044	45,461	51,408	52,554	52,009	47,853	42,240	45,799	49,028	54,214
Tonnage of boats ...	Tons	320,927	292,452	332,325	360,973	362,979	412,379	372,608	337,440	409,366	470,806
Passengers carried	No.	180,294	166,238	204,020	181,251	170,745	...	...	208,582	160,567	(b)167,259
Estimated value of cargo, including rafts	Rs.	1,39,41,406	1,43,15,668	1,47,79,798	1,69,43,032	1,79,53,406	1,57,52,997	1,27,23,175	97,25,537	1,18,44,844	1,31,70,96

(a) Exclusive of Rs. 21,428 tolls paid by the Calcutta Steam Navigation Company.
(b) By private boats, 81,940, and by the Calcutta Steam Navigation Company's steamer, 85,319.

The tollage receipts both from boats and steamers continue to advance, and are now higher than in any previous year, the increase being distributed over the whole year except for the month of August, when navigation was stopped owing to the excessive accumulation of silt at the Panchkura works. The Superintending Engineer shows that the export traffic in rice and paddy is steadily on the increase in the districts of Midnapore and Hooghly, and appears to be stimulated by a bad harvest, such as that of 1888-89, when the superiority of irrigated over unirrigated crops is more marked. Other goods of which greater quantities were carried are raw cotton, salt, piece-goods, building materials, fuel, timber and miscellaneous.

The Calcutta Steam Navigation Company continue to maintain a double daily service of steamers on the Midnapore canal. The discomfort of these vessels is made the subject of a complaint by the Executive Engineer. The tolls paid by the Company rose from Rs. 18,114 to Rs. 21,428.

FINANCIAL RESULTS.

48. The following statement shows the receipts on revenue account and working expenses of the Midnapore canal since the year 1879-80:—

PARTICULARS.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates	1,30,140	1,12,960	1,18,588	1,04,060	1,31,000	1,16,807	1,08,709	1,08,834	90,837	91,076
Navigation	1,05,518	93,099	1,20,706	1,50,922	1,20,580	1,28,747	1,27,578	1,09,693	1,26,574	1,46,760
Miscellaneous	11,567	10,407	10,780	17,028	12,996	12,401	16,197	15,658	16,967	14,019
Total ...	2,47,225	2,16,466	2,50,074	2,68,010	2,64,576	2,57,955	2,62,484	2,34,185	2,34,378	2,51,795
Less—Refunds of revenue	...	...	...	...	44	112	...	211	453	285
Net total receipts ...	2,47,225	2,16,466	2,50,074	2,68,010	2,64,532	2,57,843	2,62,484	2,33,974	2,33,925	2,51,510
WORKING EXPENSES										
DIRECT CHARGES.										
I.—Works, Maintenance and repairs.										
Works and repairs ...	94,488	1,21,607	1,35,114	1,40,067	1,27,038	1,34,036	1,24,857	1,27,751	1,31,161	1,06,139
Compensation ...	...	...	...	...	30	...	...	...	...	...
Establishment, including direction and accounts	19,102	26,100	31,022	32,218	29,342	30,822	28,651	31,677	46,467	36,111
Tools and plant	17,036	17,975	36,448	31,354	31,229	26,591	25,952	25,003	31,409	34,335
Total ...	1,30,626	1,65,682	2,02,584	2,03,639	1,88,229	1,91,449	1,79,460	1,94,432	2,09,057	1,66,585
II.—Revenue management.										
Irrigation establishment	16,377	16,101	18,371	20,337	19,862	24,004	22,790	24,154	22,797	25,927
Navigation ditto ...	7,340	7,437	7,519	14,101	7,511	7,609	7,610	7,575	7,759	7,550
Total ...	23,717	23,538	25,890	34,438	27,373	31,613	30,400	31,729	30,556	33,477
Total direct charges ...	1,54,403	1,89,220	2,28,474	2,38,077	2,15,602	2,23,062	2,09,860	2,26,161	2,39,613	2,00,062
Indirect charges* ...	7,622	8,823	10,116	8,425	7,940	8,741	8,267	8,977	10,783	9,742
Total working expenses...	1,62,025	1,98,043	2,38,590	2,46,502	2,23,542	2,31,803	2,18,127	2,35,038	2,50,396	2,09,804
Net revenue ...	85,200	18,423	11,484	21,508	40,990	26,040	44,357	(—) 1,064	(—) 16,471	41,706

* These are now shown under the suggestion of the Government of India.
If allowance be made for the increase in the establishment charges under the new method, the year under review would compare favourably with any year since 1880-81 at any rate.

EXPENDITURE ON REPAIRS.

49. The actual cost of repairs during the year 1888-89 was less than that in the previous year, and is distributed by sub-heads as shown below:—

	1888-89.	1887-88.
	Rs.	Rs.
Head works, including buildings	13,903	11,667
Main canal and branches	65,216	89,238
Distributaries	22,464	20,687
Drainage and protective works	2,113	1,990
Steamers	2,443	7,599
Total ...	1,06,139	1,31,181

HEAD WORKS.

The expenditure on the Midnapore head works was Rs. 10,551 and on the Panchkoorah head works Rs. 3,352. The expenditure on weirs was Rs. 2·70 per foot run of the Midnapore weir and Rs. 3·34 of the Panchkoorah weir against Re. 1·48 and Rs. 5·30 respectively last year. The cost of clearing silt from the locks and lock entrances situated above the two weirs was considerable. A large sum also was expended in replacing the apron of the Midnapore weir and on the shutters on the Panchkoorah weir sluices.

There is a decrease of Rs. 26,819 on the repairs of main canal and head works taken together, and an increase of Rs. 1,777 on those of distributaries. Mileage rates are worked out below:— MAIN CANAL

YEAR.	MAIN CANAL AND HEAD WORKS, &c.			DISTRIBUTARIES.		
	Length of canal, exclusive of river crossings.	Total cost of work.	Rate per mile.	Length of distributary channels.	Total cost of work.	Rate per mile.
	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.
1881-82	48	1,03,910	2,164	277	11,854	42
1882-83	48	1,01,821	2,121	277	20 407	73
1883-84	48	1,06,425	2,216	277	21,195	76
1884-85	48	1,15,171	2,399	277	18,865	68
18-5-86	48	1,10,360	2,299	277	14,424	52
1886-87	48	1,20.135	2,503	283	17.617	63
1887-88	48	1,10.494	2,301	283	20,687	74
1888-89	48	83,675	1,743	283	22,464	79

The mileage rate of the main canal is much lower than in previous years, economies having been chiefly effected in earthwork charges, which fell from Rs. 59,161 to Rs. 49,758, and in repairs of navigation works, which fell from Rs. 19,162 to Rs. 4,008. In earthwork 4,176,765 cubic feet of silt were cleared by dredgers and removed at a cost of Rs. 26,387, or at an average rate of 6·31 per thousand, which compares favourably with the rate of 7·63 obtained in the previous year, and 1,931,281 cubic feet were cleared by hand and excavators at an average rate of Rs. 5·32 per thousand, which is slightly higher than in 1887-88. In addition 1,755,000 cubic feet were cleared at an average rate of Rs 8-12-6 per thousand from the first three reaches, which were closed for that purpose during April.

The cost of repairs to distributaries was Rs. 22,464 against Rs. 20,687 in the preceding year. The mileage rate for the year was Rs. 79 per mile, which is higher than that of former years; but it is explained that an expenditure of Rs. 8,039 for 4,493,278 cubic feet of earthwork had to be incurred in raising banks and clearing silt and in closing the breaches caused by the excessive floods of July and August. A certain amount of silt clearance and repairs to banks must always have to be done, whilst even if we exclude the whole sum, the balance falls at a rate of Rs. 51 per mile, which was about the rate in 1885-86, when it was Rs. 52 per mile. Since then the yearly rates have been Rs. 63, Rs 74 and now Rs. 79, and there appears to be sufficient ground for a searching enquiry as to whether the expenditure under this head cannot be reduced, since even Rs. 51 per mile appears to be higher than the rate ought to be. DISTRIBUTARIES.

The expenditure on tools and plant amounted to Rs. 24,335 against Rs. 31,409 of the previous year, and was incurred principally on repairs to the dredging plant. REPAIRS TO DREDGERS

50. The highest flood in the Cossye river, the result of heavy rainfall following in cyclonic storm in the Bay, occurred on the 25th August, when the gauge reading above Midnapore weir was 88·80 and below it 87·50, against 92·30 and 91·55 respectively, the highest recorded in 1868. Several minor floods came down the river, which caused serious silt deposits both at Mohunpore and Panchkoorah. Though very considerable damage by floods was caused to embankments both north and south of the canal by which irrigated crops are reported to have been destroyed, no damage occurred to the canal or works. FLOODS.

HIDGELLEE TIDAL CANAL.

51. On this canal, which is a major work, no capital expenditure was incurred during the year under report. The expediency, however, of incurring further expenditure on works designed for the most part to overcome the accumulations of silt, which at present interfere with the financial success of the canal, was indicated in the Chief Engineer's note of last year, and it was stated that estimates for remodelling the canal were then under the consideration of the Government of India. These estimates, amounting to Rs. 7,91,963, have now been sanctioned by the Secretary of State, and funds will be assigned as required for the completion of the improvements, with the condition, which has been

accepted by the Lieutenant-Governor, that the province shall accept financial responsibility for the work by agreeing to pay interest at the rate of 4 per cent. on all allotments made from Imperial revenues under this arrangement. The remodelling of the canal, therefore, as opposed to the original project, will be classified as a minor work.

CAPITAL ACCOUNTS.

52. The capital, interest, and revenue accounts of the Hidgellee Tidal Canal are given below :—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.
I.—Works	.....	12,66,239
II.—Establishment...	.....	4,49,790
III.—Tools and plant	.....	57,585
IV.—Suspense accounts	.....	.....
Loss by exchange	.....	22,790
Total ...	.....	17,96,404
V.—*Less*—Receipts on capital account	.....	915
Net total direct charges ...	.....	17,95,489
INDIRECT CHARGES.		
Capitalization of abatement of land revenue	.....	11,210
Leave and pension allowances	.....	33,597
Total indirect charges ...	.....	44,807

INTEREST ACCOUNT.

2.—INTEREST ACCOUNT.

	Rs.
Interest charges to end of 1887-88	12,58,963
Ditto for 1888-89	71,820
Total ...	13,30,783

REVENUE ACCOUNT.

3.—REVENUE ACCOUNT—(Actuals).

	EXPENDITURE.			RECEIPTS.	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
I.—*Works, maintenance and repairs.*					
Works (extensions and improvements) ...	1,718	4,751	Water-rates ...	...	2,611
Maintenance and repairs	50,920	4,70,616	Navigation ...	53,921	8,03,635
Establishment, including direction and accounts	16,572	1,14,398	Miscellaneous ...	1,249	19,377
Tools and plant ...	2,868	24,471			
Total ...	72,078	6,14,236	Total ...	55,170	8,25,623
II.—*Revenue management.*					
Navigation establishment	8,195	53,050	*Less*—Refunds of revenue ...	73	983
Total direct charges ...	75,273	6,67,286	Net total receipts...	55,097	8,24,640
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ...	...	...			
Leave and pension allowances	2,767	26,240			
Total indirect charges...	2,767	26,240			
Total working expenses	78,040	6,93,526			
Profit	(—)22,943	1,31,114			
Total ...	55,097	8,24,640			

*These are now shown under the suggestion of the Government of India.

53. The usual particulars regarding the traffic on the Hidgellee Tidal Canal since the year 1879-80 are given in the following statement:— TRAFFIC.

PARTICULARS.		1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
Miles open	No.	29	29	29	29	29	29	29	29	29	29
Toll collections ...	Rs.	44,918	53,338	45,846	48,094	62,317	41,382	52,143	51,904	40,406	53,910
Rate of toll per mile	"	1548·90	1839·20	1581·00	1510·00	2148·00	1427 00	1798·03	1789 79	1393·81	1858·96
Number of boats ...	No.	16,311	21,783	20,057	17,445	22,728	17,060	19,316	17,842	13,503	16,481
Tonnage of boats ...	Tons.	120,021	152,781	133,020	132,884	196,764	145,424	163,535	140,747	124,904	165,035
Passengers carried ..	No.	3,061	3,531	3,296	3,510	...	...	...	8,569	11,951	34,032
Estimated value of cargo, including rafts	Rs.	25,86,031	23,84,731	21,19,855	25,83,244	33,42,029	30,06,852	32,74,061	31,48,826	26,13,351	36,01,123

The receipts from tolls during the year under review amounted to Rs. 53,910 against Rs. 40,406 for the previous year, thus showing an increase of Rs 13,504. The previous year was a year of partial closure of canal for silt clearance.

54. The only receipts other than tolls are miscellaneous. These amounted to Rs. 1,260 against Rs 1,452 of the previous year. MISCELLANEOUS.

55. The following statement shows the receipts on revenue account and working expenses of the canal for the last ten years:— FINANCIAL RESULTS.

PARTICULARS.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Navigation	44,918	53,338	45,846	48,094	62,317	41,382	52,143	51,904	40,406	53,910
Miscellaneous	863	1,149	1,446	1,338	1,273	2,125	312	2,500	1,452	1,260
Total ...	45,781	54,487	47,294	45,032	63,590	43,507	52,455	54,404	41,858	55,170
Less refunds of revenue ...	...	...	...			...	...	910	...	73
Net total receipts ...	45,781	54,487	47,294	45,032	63,590	43,507	52,455	53,494	41,858	55,097
WORKING EXPENSES. DIRECT CHARGES.										
I.—Works, maintenance and repairs.										
Works	...	1,366	1,147	...	...	...	...	...	...	1,718
Repairs	30,607	17,015	18,831	29,460	32,904	26,862	34,099	11,988	47,928	50,920
Establishment, including direction and accounts ..	5,794	2,289	4,497	6,775	7,588	6,178	7,843	2,756	11,855	16,572
Tools and plant...	...	1,444	1,834	1,362	2,784	292	3,524	4,155	2,105	2,868
Total ...	39,401	22,634	25,809	37,597	43,366	33,332	45,466	18,899	61,888	72,078
II.—Revenue management.										
Navigation establishment ...	2,883	2,956	2,869	2,973	3,715	3,554	3,143	3,026	3,007	3,195
Total direct charges ...	42,284	25,590	28,678	40,570	46,581	36,886	48,609	21,925	64,895	75,273
Indirect charges	2,071	930	1,306	1,327	1,512	1,362	1,538	810	2,081	2,767
Total working expenses ...	44,355	26,520	29,984	41,897	48,093	38,248	50,147	22,735	66,976	78,040
Net revenue ...	1,426	27,967	17,310	3,135	15,497	5,259	2,308	30,756	(−)25,118	(−)22,943

The deficit in the year's working, notwithstanding a substantial increase of Rs. 13,239 in the receipts, was anticipated in the Chief Engineer's note of last year, where it was stated that of the charges incurred for the thorough clearing of the channels in 1887-88, a large sum would not be paid till the following year. The actual amount of these payments was Rs. 39,580. The influx of silt was largely due to the deterioration which has taken place in the condition of the Russulpore river, from which the canal was formerly supplied. Since the completion of the last silt clearance the feed has been exclusively taken in at the Huldee river, and it is hoped that another closure may not be found necessary for three seasons.

56. After the heavy rains at the end of August, the southern portion of the district of Midnapore was visited by floods of great severity, and the incapacity of the natural drainage channels to relieve the inundated tracts was investigated by a committee of enquiry. The brunt of the inundation fell on the tract of country adjoining range III of the Orissa coast canal. Regarding the Hidgellee canal, it appeared that though the drainage of parts of the affected area had been to some extent obstructed by it, yet this obstruction was not one of the main causes of the floods, and any injury so caused was more than counterbalanced by the enormous benefits conferred on landlords and ryots by the protective works constructed by Government. The defects in the arrangements for passing drainage water across the canals are now being remedied, and it is hoped that by the lowering of the bed, which is a feature in the recently-sanctioned scheme for remodelling the canal, complete facilities for drainage will be afforded. The damage done to the canal was not such as to require special expenditure beyond that provided in the regular maintenance estimates. FLOODS

SONE CANALS.

CAPITAL ACCOUNT.

57. The Capital, Interest and Revenue Accounts of these canals are given below:—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1 88-89.	Outlay t oend of 1888 89.
DIRECT CHARGES.	Rs	Rs.
I.—Works	93 250	1,81,56,556
II.—Establishment	20,691	50,81,927
III.—Tools and plant	21,776	21,12,855
IV.—Suspense accounts	12,770	1,88,341
Loss by exchange	.....	52,240
Total ...	1,48,487	2,55,91,919
V.—*Less* receipts on Capital account	44	3,07,237
Net total direct charges ...	1,48,443	2,52,84,682
INDIRECT CHARGES.		
Capitalization of abatement of land revenue ...	.....	37,834
Leave and pension allowances	2,897	8,60,725
Total indirect charges ...	2,897	8,98,559

INTEREST ACCOUNT.

2.—INTEREST ACCOUNT.

	Rs.
Interest charges to end of 1887-88	1,25,23,888
Ditto for 1888-89	10,08,418
Total ...	1,35,32,306

REVENUE ACCOUNT

3.—REVENUE ACCOUNT (actuals).

	EXPENDITURE			RECEIPTS.	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
I.—Works, Maintenance and Repairs.					
Works (extensions and improvements) ...	10,426	15,958			
Repairs	3,28,182	35,43,798	Water-rates ...	7,59,556	68,75,460
Compensation ...	.....	2,463			
Establishment, including direction and accounts	1,97,677	11,40,593	Navigation ..	57,829	6,77,467
Tools and plant ...	33,920	2,08,592	Miscellaneous	26,504	4,36,466
Total ...	5,70,205	49,11,404	Total ...	8,43,889	79,89,393
II.—Revenue Management.					
Irrigation establishment	1,58,249	13,23,848	*Less* refunds of revenue ...	12,611	74,394
Navigation establishment	14,165	1,70,129			
Total ...	1,72,414	14,93,977			
Total direct charges ...	7,42,619	64,05,381	Net total receipts ...	8,31,278	79,14,999
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ...	.....	.....			
Leave and pension allowances	51,813	3,85,940			
Total indirect charges ...	51,813	3,85,940			
Total working expenses	7,94,432	67,91,321			
Profit	36,846	11,23,678			
Total ...	8,31,278	79,14,999			

* These are now shown under the suggestion of the Government of India.

The expenditure on capital account during the year was Rs. 1,48,443. The principal works carried out were docks at Bedadi, Nasriganj, and Daodnugger; a warehouse at Bedadi, a syphon aqueduct at mile 10¾, Domraon Branch canal, and numerous permanent outlets in all divisions. The following works were all but completed at the close of the year:—Docks at Baroon Urwal, and Deegah; the Tejpoora distributary taking off from the Patna canal and the Bachori drainage cut; Telegraph offices at Baroon, Nasriganj and Ugeon; the Rewah escape, and several minor works.

EARNINGS.

58. The income calculated on "Earnings" of the year and expenditure are shown below:—

EXPENDITURE.	Amount.	Earnings.	Amount.
DIRECT CHARGES.	Rs.		Rs.
I.—Works, Maintenance and Repairs.		Water-rates	8,05,790
		Navigation	57,829
		Miscellaneous	26,504
Works (extensions and improvements)	10,426		
Repairs	3,28,182	Total ...	8,90,123
Establishment, including direction and accounts ...	1,97,677	*Less* refunds of revenue ...	12,611
		Net total earnings ...	8,77,512
Tools and plant	33,920		
Total ...	5,70,205		
II.—Revenue Management.			
Irrigation establishment ...	1,58,249		
Navigation ditto ...	14,165		
Total ...	1,72,414		
Total direct charges ...	7,42,619		
INDIRECT CHARGES.			
Capitalized abatement of land revenue	.....		
Leave and pension allowances ..	51,813		
Total indirect charges ...	51,813		
Total working expenses ...	7,94,432		
Profit	83,080		
Total ...	8,77,512		

The water rates now shown as "earned" are the assessments on the irrigation of the year, and include for the first time those assessments which were not completed until after the close of the year.

LENGTHS OF CANALS AND DISTRIBUTARIES.

59. The following table shows the lengths of canals and distributaries open and the areas commanded and irrigable:—

DIVISION.	Navigable canals.	Branch canals.	Distributaries.	Gross area under command.	Maximum discharge of canal.	AREA WHICH CAN BE IRRIGATED.		
						Kharif.	Rabi.	Total.
	Miles.	Miles.	Miles.	Acres.	Cubic feet per second.	Acres.	Acres.	Acres.
Eastern Sone	80½	...	388	406,155	1,613	129,040	180,000	309,040
Arrah	74½	71½	467½	618,364	4,342	347,300	360,000	707,360
Buxar	56	77½	343	704,000				
Total ...	201½	148½	1,168½	1,728,509	5,955	476,400	540,000	1,016,400

An addition of 1¾ miles has been made to the length of distributaries during the year. There are, besides the distributaries included in the

above return, 14 miles of village channel maintained at the cost of Government in the Buxar Division. There is no change in the areas commanded and irrigable; the provision of parallel channels along part of the Buxar canal has, however, enabled land in their neighbourhood to be more easily and satisfactorily supplied with water, and will eventually result in some increase in the area under irrigation.

VILLAGE CHANNELS AND OUTLETS.

60. The following table shows the progress made with village channels and outlets:—

Division.	Total length of village channels completed.	Total number of temporary and permanent outlets.	Number of permanent outlets.
	Miles.	No.	No.
Eastern Sone	204½	2,033	320
Arrah	768½	2,330	737
Buxar	511½	984	274
Total, 1888-89 ...	1,484½	5,397	1,331
Total, 1887-88 ...	1,525	5,999	828

Of the village channels now in use, 185½ miles have been constructed by Government agency and 1,299 by villagers. The figures as regards channels constructed by villagers are only approximate, and the decrease in the total length is partially due to this cause; it is, however, mainly owing to the reduction in the number of outlets from 5,999 to 5,397, which has been accompanied by an increase in the area under irrigation. The construction of permanent outlets was pushed on during the year, 503 having been built in carefully chosen situations with a discharging capacity proportioned as nearly as possible to the area under lease or likely to be irrigated.

RAINFALL.

61. The following statements furnish the rainfall statistics of the Sone canal system and the distribution by canal divisions for the last five years:—

		Average of 22 stations.				
		1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
		Inches.	Inches.	Inches.	Inches.	Inches.
Kharif season ...	August	18·49	9·48	11·73	16·69	9·09
	September	7 35	5·24	12 51	10 57	5·41
	October	0·18	4 18	8·33	0·34	3·50
	Total ...	26·02	18 90	32·57	27 60	18·00
Rabi season ...	November	0·46	...	0·23	...	...
	December	..	...	0·22	2·45	...
	January	1·22	1 09	1·47	0·10	0·55
	February	1·30	...	...	0·11	0·03
	Total ...	2·98	1·09	1·92	2 66	0·58
	Whole year ...	47·34	40·31	59·34	44·99	30·29

Years.	Eastern Sone Division.			Arrah Division.			Buxar Division.		
	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
1888-89	23·72	2·36	46·10	25·14	2·35	46·46	24·67	2·33	43·24
1887-84	11·35	0·02	38·11	20·59	1·08	43·57	20 43	1·22	38·18
1886-87	34·30	1·73	62·34	36·40	1·83	62·39	25·48	1·85	51·06
1885-86	30 21	2·15	46 54	27·02	2·84	44·08	27 82	2·02	42 29
1884-85	17·11	0·49	30·57	18·84	0·54	31·03	20·96	0 69	31·87

The Superintending Engineer reports:—"The rainfall for the year (45·43 inches), average for all stations, over the area commanded by the Sone Canals was, it will be noted, considerably in excess of that which fell in the year preceding (40·18 inches), and it was also in excess of the average for 20 years (41·25

inches). The chief characteristics of the season, as regards rainfall, were—*First*, the late date at which the rains commenced. No rain fell at Arrah until the 2nd July, and the rains throughout the area irrigable may be said to have commenced on this date. *Secondly*, the favourable rainfall during July, August, and the first ten days of September. *Thirdly*, the almost entire cessation of the rains from the 11th of September to the 29th of November, the average fall over all canal stations for that period being 1·47 inches only. *Fourthly*, the wide variation in the falls at different stations ranging for the year from 39·03 inches at Sikroul to 52·07 inches at Nasrigunge. This variation had only a comparatively small effect on the area irrigated, as up to the 10th of September the rainfall may be said to have been generally favourable."

62. The following statement shows the area leased and irrigated during the last four years :— AREA LEASED AND IRRIGATED.

DESCRIPTION.	1888-89.		1887-88.		1886-87.		1885-86.	
	Leased.	Irrigated.	Leased.	Irrigated.	Leased.	Irrigated.	Leased.	Irrigated.
	Acres.	Acres.	Acres	Acres.	Acres.	Acres.	Acres	Acres.
Five-year leases	200,375	200,102	210,635	210,164	194,419	194,556	173,629	179,784
Annual leases—								
Kharif	71,794	69,028	43 038	57 595	27,733	30,062	62,107	80,792
Rabi	61 019	66,817	16,736	27,501	10,539	16,662	31,764	50,619
Sugarcane	3,539	4,60)	3,891	6,265	5,402	11,626	5,186	10,527
Hot-weather	9,035	11,762	9,313	13,855	5,819	13,278	6,117	10,857
Total annual leases ...	145,407	155,807	72,980	105,216	52,343	73,648	105,174	152,795
GRAND TOTAL ...	345,682	355,909	283,515	315,380	246,812	268,204	279,003	332,579
Percentage of leased to irrigated area	97·12		89 89		92·03		83·89	

The area irrigated was in excess of any year to date, except 1884-85, when the area irrigated was 370,661 acres. The area under annual leases during the kharif season exceeds the area irrigated. This is partly due to areas leased late in October, to which water could not be supplied in time to be of service, but mainly to the strenuous efforts which were made to confine the water within the leased areas. Unauthorized irrigation in the kharif season has practically disappeared.

It will be noticed that compared with the previous year there has been a decrease of 10,260 acres under five-years' lease. It is not to be inferred that there has been any reduction on the area actually irrigated. Applications for five-year leases for 15,050 acres were either declined by the Canal Officers or withdrawn, chiefly the former for reasons given in the extract from the Sub-Engineer's report quoted in the next succeeding paragraph.

The Sub-Engineer was given authority to cancel five-year leases with the result that no single application was declined, and leases for 1,456 acres only cancelled. This may be taken, with leases for 529 acres subsequently cancelled, as the full area on which the lessees were dissatisfied with their bargain.

Out of the 200,102 acres irrigated under five-years' lease, it is estimated that 154,825 acres, or 77·3 per cent., were cultivated under kharif; 27,408 acres, or 13·6 per cent., under rabi; and 17,869 acres, or 8·9 per cent., under sugarcane crops.

The statement below shows the area irrigated during the year and the two preceding, as well as 1884-85, the largest on record, classified by crops—

	1888-89.	1887-88.	Difference.	1886-87.	1884-85.
	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif	224,453	220,428	+ 4,025	177,510	246,740
Rabi	97,225	56,090	+ 41,135	45,361	99,280
Sugarcane	22,469	25,007	— 2,538	30 055	23,682
Total ..	344,147	301,525	+ 42,622	252,926	369,702
Add—Hot-weather irrigation ...	11,762	13,855	— 2,093	15,278	959
Grand Total ...	355,909	315,380	+ 40,529	268,204	370,661

In 1887-88 there was a sharp demand for canal water during the kharif season checked by a copious fall of rain on the 13th October which had an important effect in limiting the area under rabi irrigation during that year. The year under review is perhaps more fitly comparable with 1884-85, in which 14,752 acres more were irrigated. The rainfall in 1888-89 was 45·43 inches for the year and 24·61 inches during the kharif season, the corresponding figures for 1884-85 being 30·26 inches and 18·00 inches; the period of great demand being during October in 1889 and during August and September in 1884.

63. The system pursued was not altogether the same. In 1884-85 but little attempt was made to restrict the supply of water to the area under lease, and irrigation previous to the issue of a permit was not rigorously suppressed, nor were the rules regarding the existence of proper village channels enforced. In 1888-89 the most strenuous efforts were made to prevent unauthorized irrigation, and generally to enforce the provisions of the law and rules. The procedure adopted is detailed in the extract from the Superintending Engineer's report quoted below:—

"Up to the middle of September the season, though the rains were late in commencing, was not unfavourable, but from the commencement of the *Hathia*, the 26th of September, rain was eagerly looked for, and none falling by the beginning of the *Chitra*, the 9th of October, the demand for canal water became urgent and pressing Applications for permits poured in from all sides, and the greatest eagerness to irrigate leased areas was manifested.

"It had been determined at the beginning of the season to abstain from in any way pressing cultivators to enter into leases. Whilst every possible assistance was given, if desired, they were left to decide the matter entirely in accordance with their own view of their own interests. When applications were tendered, the size of outlet allowed was fixed as nearly as possible in accordance with the discharge required to irrigate the area proposed to be leased, so that unauthorized irrigation on any considerable scale would not be possible. It was explained that a *tatil* would be enforced These measures were in some localities not popular, and several applications were in consequence not completed. Many applications for leases, five-year and annual, were refused until proper channels were provided, and altogether declined where there was doubt as to the supply of water available, or where the block proposed was such that unauthorized irrigation was certain to occur. These causes and the hope that holding off from applying for leases might induce Government to reduce the water-rates had considerable effect in lessening the area under lease when the urgent demand for water commenced about the 3rd of October. In many cases it was then too late; channels could not be provided in time, nor could water be given within the few days during which the crop could live without irrigation."

The area irrigated in October was in fact practically limited only by the quantity of water available, and the facilities which existed or could be improvised for leading it to the fields From the 16th to the 25th of October, an average of 2,415 cubic feet of water per second were passed down the Arrah canal, which was designed to carry 1,660 cubic feet per second only. In 1884-85 the sharp demand occurred in August and September, so that the time during which irrigation could be usefully effected was more protracted, and under the same circumstances, the area irrigated in 1888-89 would probably have been in excess of the results of that year. Of the late irrigation about 5,000 acres reported as leased or irrigated chiefly in the Arrah Division could not be assessed on various grounds, and if the financial interests of the canals were the only consideration, there is little doubt that it would be best to refuse permits after the 20th of September. It is a matter for consideration whether under such circumstances previous payment in part at least should not be insisted on. The area noted above, having been decided not to have been irrigated in a legal sense, has been excluded from all the returns.

There was a general failure of the rains in Behar, so that it was considered desirable that an account of the kharif irrigation of the year for the Sone canals should be published at an early date for general information. A note on the subject was accordingly published in the *Calcutta Gazette* for the 9th January 1889.

The large increase in the rabi irrigation was chiefly due to there being no rain in October and November, though the reduction in rate of from Rs. 2-8 to Rs. 2 per acre for flow irrigation for the year only had some influence in inducing applications, the major part of which must in any case have been filed, as the ground was so dry that the seeds would not germinate without artificial irrigation.

64. Whatever difference of opinion may exist as to the procedure to be adopted as regards irrigation or the rates to be charged, the advantage reaped by the country generally from the Sone canals during 1888-89 is unquestionable, and the Superintending Engineer appears to have full justification for the observations made in the extract from his report which follows:—

"There can be no doubt as to the benefits the Sone canals conferred on the districts which they traverse during the year 1888-89. The failure of the rice crop outside the area commanded by the Sone canals was nearly complete; the aharas in which there was any water in the first week of October being few and far between. The situation was complicated by the necessity of blocking early in October four vents in the Dehree river sluices of the Sone weir. As narrated in an extract from a report on the kharif irrigation of the year, quoted in paragraph 4, this operation was carried out in 15 hours, during which time only was the supply of the canals partially shut off. There was at the time considerable sickness amongst the sectional officers, and substitutes, even inefficient, could not be procured. The brunt of the work fell on the Subdivisional officers, amongst whom were one European and three native upper subordinates, and sick or well, they threw themselves into the work with a vigour which in my opinion deserves the commendation of Government. The Divisional officers were no less energetic and self-sacrificing in directing operations. The result of the efforts made is generally admitted to have been successful. A pamphlet by a native gentleman, a pleader and landowner, in which a view, certainly not favourable to canal irrigation, is taken, thus speaks of the operations of the year:—'It is almost admitted that in the year under review the canal authorities have worked better in all the departments than in previous years. The supply of water was satisfactory, the prayers of the cultivators were attended to, and, generally speaking, the arrangements were good.' It is fair to say that he adds:—'In fact, the successful management of this year carries with itself condemnation of the system.' The main difference between the system adopted during the year and that previously in force was the determined effort made to prevent water being taken until permits had been granted. The supply of water was rigorously limited to the area leased, and criminal prosecutions instituted, wherever possible, when water was misappropriated. The system was somewhat relaxed after the 10th of October with decidedly unfavourable financial results to Government, but some benefit to the cultivators. It was remarked in last year's report that efforts were made to remove all well-founded grounds of complaint brought to light during the sittings of the Sone Canal Committee, and this policy was continued during the year. It is fully recognized that lasting contentment will only result by securing irrigating cultivators full crops, and that anything short of this standard will, whatever may be the measure of the benefits derived compared with the water-rates paid, lead to complaints which, though ill-founded, are to be avoided."

65. The areas actually irrigated in each of the executive divisions during the last five years are shown below:—

[illegible]AR.	Eastern Sone Division.				Arrah Division.				Buxar Division.				Total for all Divisions.			
	Annual leases.				Annual leases.				Annual leases.				Annual leases.			
	Kharif and rabi.	Sugarcane and hot-weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot-weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot-weather.	Five-year leases.	Total.	Kharif and rabi.	Sugarcane and hot-weather.	Five-year leases.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
[illegible] ...	46,531	1,328	25,136	72,995	97,490	4,556	82,573	184,619	64,909	4,337	43,801	113,047	208,930	10,721	151,510	370,661
[illegible] ..	20,294	1,041	27,945	49,280	54,968	6,821	95,232	157,021	56,140	13,522	56,607	126,269	131,402	21,384	179,784	332,570
[illegible] ...	11,869	1,216	34,194	47,379	21,710	20,300	98,737	140,747	13,165	5,288	61,625	80,078	46,744	26,904	194,556	268,204
[illegible] ...	20,399	679	40,123	61,201	25,982	13,079	102,423	141,484	38,715	6,362	67,618	112,695	85,096	20,120	210,164	315,380
[illegible] ..	29,470	408	37,117	66,995	52,269	11,591	101,489	165,349	57,706	4,363	61,496	123,565	139,445	16,362	200,102	355,909

The reduction in the area under five-year lease is due as has been mentioned in paragraph 62 above to leases being refused where the channels were not in good order or the blocks unsuitable. In some cases applications were withdrawn, as the cultivators were unwilling to accept the outlets proposed which are now recorded in the permit.

The proportion of *flow* to *lift* irrigation for the last five years is shown below:— FLOW AND LIFT.

	1888-89.		1887-88.		1886-87.		1885-86.		1884-85.	
	Flow	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.	Flow.	Lift.
Proportion	93·4	6·5	95·2	4·8	96·5	3·5	95	5	93	7

DUTY OF WATER

66. The following statement shows the duty obtaining in the year under review and in the years 1887-88 and 1884-85 :—

				Eastern Main Canal Series.	Arrah Canal System.	Buxar Canal System.	Western Main Canal Series.	Sone Canals.
1888-89	Kharif	Acres		55,559	120,758	70,605	191,383	240,922
		Duty on gross supply		49·4	68·7	80·1	71·8	65·2
	Rabi	Acres		15,547	47,165	56,982	104,147	119,694
		Duty on supply utilized		56·5	73·01	94·9	83·5	76·7
1887-88	Kharif	Acres		54,733	112,505	78,197	190,702	245,435
		Duty on gross supply		54·4	85·5	81·2	82·4	73·9
	Rabi	Acres		11,111	31,590	38,396	69,986	81,097
		Duty on supply utilized		43·9	65·9	84·9	75·09	68·5
1885-86	Kharif	Acres		39,532	1,24,441	80,661	205,102	244,634
		Duty on gross supply		45·4	88·7	97·0	93·6	79·9
	Rabi	Acres		12,324	44,946	47,371	92,317	104,641
		Duty on supply utilized		42·8	128·0	116·1	121·7	99·0
1884-85	Kharif	Acres		61,849	133,307	75,266	208,573	270,422
		Duty on gross supply		47·1	79·1	74·3	74·2	65·6
	Rabi	Acres		13,103	64,125	45,734	109,859	122,962
		Duty on supply utilized		37·2	142·5	157·7	148·4	113·6

N B.—Sugarcane is included in both kharif and rabi.

As the year 1884-85 was that in which the largest area was irrigated, it has been selected for comparison in place of 1886-87, which was a year of such plentiful rainfall that as stated last year its results are not of much value as standards of comparison.

The main result for 1888-89 the duty in the kharif season for the Sone canals, 65·2 acres, per cubic foot per second of gross supply approaches very nearly to 65·6, the figures for 1884-85, although in the latter year the rainfall was much more favourable.

For a short base, ten days (11th to 20th October 1889) against fourteen days (29th September to 12th October 1887), the duty *on the rice crop alone* for the Sone canals falls to 42·3 acres in 1888-89, against 45 acres in 1887-88.

In the Arrah Division the quantity of canal water utilized in irrigation during the four months July to October is calculated by Mr. Inglis, Executive Engineer, Arrah Division, to be equivalent to 2·93 feet over the area watered in 1888-89, and 2·6 feet in 1887-88. Taking the drainage area, it is equivalent to 7·2 inches of rainfall of effective rainfall, against 5·7 inches in the previous year.

The Superintending Engineer gives the particulars tabulated below regarding some experiments carried out in the Arrah Division on the quantity of water used in irrigating definite areas from specified outlets:—

Dutributary.	Size of outlet.	Number of days discharging.	Average discharge.	Area irrigated.	Area irrigated per cubic foot per second.	Date from which open.
Bichiaon	9″×12″	11	2·8	54 15	2·76	2nd October 1888.
Kaithi	9″ diam	11	2·37	45·6	1·74	6th August „
Kaithi	Same outlet	11	2·72	42 28	1·41	23rd Sept. „
Kaithi	6″ diam.	12	1·09	21·0	1·6	Ditto „
Behcea R. P. C. ...	15″×18″	9	3·46	116·4	3·46	3rd October „

The results are discordant, and the omission of information as to the nature of the soil, the distance of the outlet from the block irrigated, the number of days elapsed since the last irrigation and since the last rainfall, and the extent of the latter in inches, &c, prevents any useful deductions being made. At the same time the experiments point to a direction in which much useful work can be done, as with a demand in the kharif season, which even now the canals are unable to meet it, is imperative that whilst a sufficient supply of water shall be allowed the utmost economy, which can only be effected at the outlet, should be practised.

The duty in the rabi season was slightly higher than in the previous year. The matter is not of practical importance, as the area of rabi crops irrigated did not nearly approach that for which water was available.

CROP EXPERIMENTS.

67. The results of experiments carried out by canal officers on the outturn of crops irrigated by canals and otherwise have been noticed in former reports The evidence given before the Sone Canals Committee showed that the value of these experiments was questioned, and accordingly in 1888-89 the matter received more than ordinary care. The extract from the Superintending Engineer's report quoted below deals with the difficulties experienced in obtaining comparative results, and narrates the course pursued during the year under review:—

"Former reports have compared the yield of crops irrigated by the canals and those matured without their aid. It has always been recognized that crop experiments, whilst valuable as showing the quantities of grain and straw produced in each case, could not be relied on as an absolute test of the producing power of the land under canal and non-canal irrigation. It was not possible to select plots cultivated under precisely similar conditions, differing only in the means of irrigation employed, and in many parts of the country it was difficult to find rice crops not under canal irrigation. Again, it had been asserted before the Sone Canals Committee that not only was the crop produced by the aid of canal water inferior, but that the longer the land was irrigated, the less the produce became. Complaints were also made that the experiments were not conducted under conditions where the public could have the opportunity of being present and watching the process. Independently of the circumstances of the year, it had been determined to confine the experiment for the most part to canal-irrigated crops, and, as a matter of fact, no other course would have been possible, as rice crop over the area commanded failed where canal irrigation was not available

"The services of a Covenanted Civilian were placed at the disposal of the Public Works Department, so that the result of a series of experiments carried out by an officer not belonging to the Canal Department might be recorded. The co-operation of Messrs. Burrows, Thomson and Mylne, who have always been ready to assist, in every way, the officers of the Irrigation Department, was solicited, and the Collectors of the districts concerned asked to instruct Subdivisional Magistrates to themselves make a few experiments if possible. In the case of experiments carried out by canal officers, the nearest Magistrates, as well as zemindars and ryots, were asked to be present. The publicity thus given to the experiments did not, in all cases, meet with the approval of the cultivators, who would have preferred the matter to have remained a subject of controversy. The instructions issued were to the effect that the crops experimented on should be good crops, and that the weighment should take place on the field."

The results of the experiments are given in the table which follows, which is abstracted from the figures contained in Mr Luson's report:—

Crop.	Name of officer conducting experiments.	Number of experiments.	Average yield, dhan.	Number of experiments.	Average yield, straw.
			Mds. s		Mds. s.
Transplanted ...	Mr. H. Luson, c s. ...	25	33 $39\frac{1}{25}$	25	47 $17\frac{11}{25}$
Aghani dhan ...	Messrs Burrows, Thomson, and Mylne	26	31 $5\frac{1}{5}$	26	52 $22\frac{9}{13}$
	Canal Subdivisional Officers	83	35 $6\frac{17}{24}$	31	68 $14\frac{1}{15}$
	Canal subordinates ...	138	31 $30\frac{17}{138}$	134	55 $38\frac{11}{18}$
Kartika dhan...	Mr. H. Luson, c.s. ...	3	35 $1\frac{1}{3}$	3	46 $36\frac{4}{75}$
	Messrs. Burrows, Thomson, and Mylne	25	26 $37\frac{7}{24}$	25	46 $5\frac{107}{225}$
	Mr. G. C. Maconochy, c.s. ...	2	31 $4\frac{1}{6}$	2	56 $29\frac{1}{8}$
	Subordinate, Agiaon ...	1	14 $19\frac{1}{3}$	1	33 6
Broadcast dhan	Mr. H. Luson, c.s. ..	2	22 22	2	31 $22\frac{6}{25}$
	Messrs Burrows, Thomson, and Mylne ...	1	23 14	1	36 32
	Canal Subdivisional Officers	3	37 $11\frac{1}{3}$	1	54 0
	Canal subordinates ...	2	33 $7\frac{1}{3}$	2	39 $13\frac{1}{3}$
	Average ...	261	31 $32\frac{9}{16}$	253	54 $32\frac{1}{4}$

The figures given above are not the actual weighments, but the weighments reduced by one-twelfth in the case of dhan and one-third in the case of straw in those cases where the crop was weighed wet on the field, this representing the loss which Mr. Luson found by actual experiment to occur in drying.

It must not be forgotten that the experiments were not on the yield of average crops, which were those selected in former years, but of the yield of the best crops. Mr. Luson, however, states that after a personal inspection of

nearly half the whole irrigated area in Shahabad, Patna, and Gya, he estimates the average outturn of irrigated dhan for the year to be $18\frac{7}{10}$ maunds of paddy per acre, or $12\frac{7}{15}$ maunds of rice.

The average of 1,227 experiments made by canal officers and subordinates from 1880-81 to 1887-88 on the yield of *average* crops is $16\frac{5}{20}$ maunds per acre of paddy, against $18\frac{7}{10}$ maunds, the yield of *average* crops in 1888-89, as estimated by Mr. Luson, based on experiments on good crops. Of the 25 experiments carried out by Mr. Luson himself, 23 were on land which had been continuously irrigated for nine years and upwards, and 16, by either Mr. Luson or Messrs. Burrows, Thomson, and Mylne, were on crops produced on *kerail* soil which has been stated to be unsuited for canal irrigation; the average yield of good crops being, nevertheless, 34 maunds $15\frac{7}{16}$ seers.

The fact that almost any soil will under favourable circumstances if regularly irrigated produce 34 maunds of dhan per acre can scarcely for the future be questioned.

In wheat, 57 experiments were made, and the balance both in grain and straw is in favour of canal water; but this result is reversed in three experiments made on barley.

DEMANDS AND COLLECTIONS.

68. The following statement shows the demands, collections, and balance of water-rates for the last five years:—

YEAR.	DEMAND.			Remissions.	Net demand.	Collections.	Balance.	Percentage of collections to current demand.
	Arrears	Current.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1884-85	4,23,793	11,15,399	15,39,192	73,625	14,65,567	7,70,359	6,95,208	69·0
1885-86	6,95,208	8,07,702	15,02,910	1,26,266	13,76,644	9,78,323	3,98,321	121·1
1886-87	3,98,321	6,95,086	10,93,407	35,364	10,58,043	8,26,461	2,31,582	118·9
1887-88	2,31,582	7,25,810	9,57,392	26,525	9,30,867	5,19,586	4,11,281	71·5
1888-89	4,11,281	7,53,217	11,64,498	24,329	11,40,169	7,59,556	3,80,613	100·8

As usual, the figures given above are taken from those compiled by the Examiner of Accounts. The balance at the commencement of the year agrees exactly, and that at the close of the year very nearly, with the figures given by the Commissioner and Collector; there are differences in the remaining columns which approximately balance each other, the discrepancy at the close of the year being Rs. 4 only. The current demand includes Rs. 1,45,277 which, though due, are not legally recoverable until after the 1st of April.

ARREARS.

69. The extent to which not only the current demand, but also the arrears of 1887-88 and earlier years have been worked off, is shown in the statement following. The figures are obtained from statements attached to the Commissioner's report:—

	Demand of 1888-89 how composed.	Collected or remitted.	Percentage of demand adjusted.	Balance outstanding at close o year.
	Rs.	Rs.		Rs.
Arrears of 1885-86 and previous years... ...	33,330	16,648	49·9	16,682
„ 1886-87	25,848	17,066	66·0	8,782
„ 1887-88	3,52,103*	2,95,630	83·9	56,473
Total of arrear demand outstanding on 1st April 1888	4,11,281	3,29,344	80·0	81,937
Current demand of 1888-89...	7,50,340	4,51,660	60 2	2,98,680†
Gross demand, including arrears	11,61,621	7,81,004	67·2	.....
Total outstanding at close of year	.....	.....	.....	3,80,617†

* Includes Rs. 1,30,550 not legally recoverable within the year 1887-88.

† Includes Rs. 1,45,277 not legally recoverable within the year 1888-89.

There has been a small diminution in the arrear balance on the 1st of April 1889, as compared with that on the 1st of April 1888. The balance due on account of the year immediately preceding that current has increased from Rs. 25,846 to Rs 56,423, whilst the balance an account of previous years has been reduced from Rs. 33,329 to Rs. 25,464.

The effect of the agitation which led to the appointment of the Committee had an unfavourable effect on the collections of the year, the Collector of Shahabad giving it as his opinion that "the work was thrown back by nearly two years." He adds "that instances have come to the notice of our officers where the rate-payers of certain villages expressed their regret that they ever joined the agitation and withheld payment, inasmuch as the pressure of accumulated arrears was too much for them." As regards the current year's demand, the Superintending Engineer notices that the demand statements reached the Collector at a later date than usual, a result ascribed to two causes—1st, the detention of demand statements including items to which objections had been preferred until a decision had been arrived at, and 2nd, the increased area under irrigation. Complaint is made in the Collector's reports of the delay which, as noted above, occurred in the receipt of the demand statements, the reasons given by the Sub-Engineer for their late despatch must be accepted as fairly satisfactory.

70. The following statement compares by districts the operations of the year under review with those of the preceding year:—

District.	Arrears due for irrigation effected in previous years.				Demands for irrigation effected in 1888-89.			
	Percentage of total demand.				Percentage of total demand.			
	Demand.	Collections.	Remissions.	Outstanding at end of year.	Demand.	Collections.	Remissions.	Outstanding at end of year.
Shahabad—								
1888-89	100·0	78·7	4·8	16·3	100·0	66·2	0·3	33·4
1887-88	100·0	66·0	13·8	20·2	100·0	54·8	0·7	44·5
Patna—								
1888-89	100·0	53 2	8·7	38 0	100·0	18 6	0·02	81·3
1887-88	100·0	45·5	5·6	48·9	100 0	22·0	0·2	77·8
Gya—								
1888-89	100 0	88·4	0·3	11·2	100·0	48·6	1·0	50·3
1887-88	100·0	89·0	1·7	9·3	100 0	43·2	0·2	57·6
Average—								
1888-89 ... ... .f. ...	100·0	74·9	5·1	19·9	100·0	59·8	0·3	39·8
1887-88	100·0	64·8	9·7	25·5	100·0	50·7	0·5	48·8

The Commissioner of Patna makes the following observations on the percentage of the total demand, arrears and current, collected during the year:—

"From the above figures it will be seen that in Shahabad 72 per cent. of the total demand was adjusted during the year under report—a result which may be considered fair; while the adjustment in Patna was only 41, which is not satisfactory. The Collector of Patna states that the present circle officer has effected some improvement in the collections, but there is yet much room for further improvement."

The Executive Engineer of the Eastern Sone Division states that the delay in recovering arrears must cause loss of revenue to Government, and has generally a demoralizing effect on the cultivators.

If the demands received in March, which are practically not recoverable during the year, are excluded, the percentage of collections to the total demand, including arrear balances, is for Gya 65 per cent., Patna 38 per cent., and Shahabad 77 per cent.

The result of the year's collecting operations has been good in Shahabad, fair in Gya, but very bad in Patna.

REMISSIONS.

71. The remissions granted during the year are Rs. 2,196 less than those of the preceding year, as shown below:—

	1888-89.	1887-88.
	Rs.	Rs.
By canal officers	10,776	6,911
By civil officers	13,553	19,614
Total ...	24,329	26,525

The statement above is based on the figures contained in the Examiner's accounts.

For the purpose of comparing the accuracy of the demand statements of the year with those of that previous it is necessary to take into account refunds and cancelled demand statements not replaced by others of equal amount. Taking into account these items, which are equally remissions and excluding remissions by civil officers the figures for the last two years are shown below:—

	Rs.
1888-89	16,234
1887-88	18,813

Remissions by civil officers are those arrears which it was found necessary to write off as irrecoverable owing to the persons assessed having absconded or become bankrupt.

The remissions by canal officers may be divided thus:—

	Percentage of remissions and refunds to gross demand.	
	1888-89.	1887-88.
Eastern Sone Division	1·09	0·74
Arrah Division	0·72	1·95
Buxar Division	1·20	1·24

showing, except in the case of the Eastern Sone Division, a further advance on last year's results, which were considered to be satisfactory.

From the Examiner's accounts it would appear that the totals of refunds, remissions and irrecoverable item amounted to Rs. 36,940 in 1888-89 and Rs. 41,856 in 1887-88. These are *actuals* and include items of former years finally dealt with in 1888-89. On this question of remissions and refunds further information is necessary, so as to show what percentage of the assessments of any year are finally remitted, refunded or written off as irrecoverable. The percentage in Bengal on account of the peculiar circumstances under which irrigation there is effected, must always be considerable as compared with other Provinces, but undoubted progress is being made, and it is desirable to show this. The matter should not be lost sight of.

REVENUE ESTABLISHMENT.

72. The expenditure on the Revenue establishments employed during the last two years is shown below:—

	1888-89.		1887-88.	
	Amount.	Percentage on collections.	Amount.	Percentage on collections.
	Rs.		Rs.	
Permanent and temporary establishments, such as zilladars, ameens, &c. ...	(a)54,325	7·15	(b)53,254	10·25
Establishment employed under Collectors ..	33,316	4·38	30,466	5·85
Headmen's and patwaries' fees ...	70,608	9·30	51,523	9·92
Total ...	1,58,249	20 83	1,35,243	26·02

(a) Inclusive of Rs. 2,270 for water regulation establishment.
(b) Ditto 2,334 ditto ditto.

The above figures have been taken from the Examiner of Accounts' memorandum.

There is a small increase in the expenditure on the establishment employed under both the Engineers and Collectors, due to the larger area irrigated and the increased collections. The increased sum disbursed on account of headmen's fees includes Rs. 10,949 wholly in the Arrah Division of arrears previous to 1887-88 disbursed in 1888-89, and to that extent the expenditure is unduly high; the remaining increase is a consequence of the increase in the area irrigated and in the collections.

COST OF MEASUREMENTS, &C., PER ACRE.

73. The following statement shows the approximate cost of measuring lands brought under assessment during the year under review and of preparing demand statements:—

Divisions.	Areas measured during the year and assessed.	Cost of measuring crops.		Cost of preparing demand statements.	
		Total.	Per acre.	Total.	Per acre.
	Acres.	Rs	Pies.	Rs.	Pies.
Eastern Sone	34,356	713	3·98	1,017	5 68
Arrah	70,483	2,838	7·73	2,518	6·85
Buxar	72,469	2,483	6 57	1,630	4·32
Total, 1888-89 ...	177,308	6,034	6·53	5,165	5 59
Total, 1887-88 ...	151,069	5,533	7 00	4,594	5·83

It will be seen from the above table that the increase in the area assessed has been followed by a reduction in the cost per acre of making the assessment.

COMPLAINTS.

74. The Superintending Engineer has attached to his report very complete lists of complaints and applications received during the year divided under three main heads:—(I) Objections to demand statements or ordinary applications for remission; (II) Complaints against orders actually passed other than those imposing an assessment; (III) Applications in connection with irrigation not involving complaints against orders passed by or the action of canal officers. Both complaints and applications are classified under numerous heads and sub-heads in appendices XIV and XV to the Superintending Engineer's report. In former years a less elaborate classification was adopted, but the numbers of complaints for the last two years can to a certain extent be classified under the main heads mentioned above, and figures showing the results are given in the subjoined table:—

Division.	(I.)—Ordinary remission.				(II to IV.)—Other complaints.			Total complaints received during year, excluding those pending from previous year.	Pending.
	Received during the year and pending from previous year.	Disposed of.		Pending.	Received during the year and pending from last year.	Disposed of.	Pending.		
		Remission allowed.	Remission refused.						
	No.	No.	No.	No.	No.	No.	No.	No.	No.
Eastern Sone ...	1,512	483	559	470	56	47	9	1,518	479
Arrah	3,591	1,094	1,562	935	441	357	84	3,688	1,019
Buxar	1,867	624	339	404	220	207	13	1,864	417
Total, 1888-89 ...	6 970	2,201	2,960	1,809	717	611	106	7,070	1,915
Total, 1887-88 ...	6,743	2,385	3,838	625	Not recorded.				

Of the 5,161 complaints regarding assessment disposed of, remission was allowed in 42·6 per cent. of the cases, against 37·3 per cent. in the previous year. The Superintending Engineer remarks that the small increase in the number of complaints is apparent rather than real owing to the fact that not unfrequently the same complaint is made to the Subdivisional Officer, the Executive Engineer, the Collector, and the Superintending Engineer, each of which now appears as a separate number in the register. The demand for water in October for new irrigation also led to many complaints, as the cultivator is never satisfied to pay water-rates unless the crop is satisfactory, and this was necessarily not the case where water was applied for and received at the last moment. The explanation may be accepted as sufficient as regards the apparent increase in the numbers of complaints, there being no doubt that it is due to a more rigid enumeration of the number of complaints, and the character of the season being such as to induce objections to the assessments. The same cannot, however,

be said as to the number of complaints pending at the close of the year, especially in the Arrah Division, for which no sufficient reason has been given.

APPEALS. 75. During the year 23 appeals against the orders of canal officers were prefered to the Collector; of these 3 were allowed, 15 dismissed, and 5 pending at its close.

CERTIFICATE PROCEDURE. 76. The number of certificate cases filed and disposed of during the year under review, as compared with the year preceding, in the districts of Shahabad, Patna, and Gya, is shown below:—

	Shahabad.				Patna.				Gya.			
	1888-89		1887-88.		1888-89.		1887-88.		1888-89.		1887-88.	
	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Cases for disposal—												
1. Cases pending at the close of the preceding year.	967	17,943	6,602	44,195	4,046	21,154	2,421	14,058	167	2,991	48	417
2. Cases instituted during the year	2,948	36,974	1,617	25,295	1,129	6,103	3,802	13,811	139	9,044	244	3,230
Total ...	3,915	54,917	8,309	69,490	5,174	27,257	6,223	27,869	306	12,035	292	3,647
Cases disposed of—												
1. By being struck off owing to the demand having been remitted.	516	5,512	2,846	16,054	1,425	4,226	465	1,943	90	4,461	80	205
2. By being wholly satisfied .	2,879	42,838	4,466	35,403	1,427	3,496	1,713	4,773	116	577	95	451
Total .	3,395	48,350	7,312	51,547	2,853	7,722	2,178	6,715	206	5,040	125	656
Balance outstanding at the close of the year.	520	6,567	967	17,943	2,323	19,535	4,045	21,154	100	6,995	167	2,991

From the above it will be seen that inclusive of 5,179 cases pending at the commencement of the year, there were 9,395 for disposal, covering a sum of Rs. 94,207. In 2,031 cases for Rs. 14,200 the demand was remitted, whilst in 4,422 for Rs 46,910 the demand was fully satisfied The number of cases pending at the close of the year was 2,942, the sum outstanding being Rs. 33,097. The Collector of Shahabad observes that remissions were mostly due to the cases covering bad and irrecoverable debts, and draws attention to the satisfactory decrease, compared with the preceding year, in the number of cases pending at its close. The excessive percentage of cases struck off in the Patna district is probably not unconnected with the delay in making collections, commented on in paragraph 65 of this note.

NAVIGATION RECEIPTS. 77. The tables below show the navigation revenue and tollage receipts for the last five years:—

NAVIGATION RECEIPTS.

Year.	Eastern Main Series.			Western Main Series.			Total.	Total tollage only.
	Number of miles open.	Tollage receipts.	Transport service receipts.	Number of miles open.	Tollage receipts.	Transport service receipts.		
	No.	Rs	Rs.	No.	Rs.	Rs.	Rs.	Rs.
1884-85	86½	23,053	1,304	132½	14,280	13,122	51,761	37,333
1885-86	86½	19,579	...	132½	22,133	4,531	46,243	41,712
1886-87	86½	22,506	54*	132½	27,159	4,535*	54,254	49,665
1887-88	86½	27,6*2	95*	132½	23,362	4,825*	55,904	50,984
1888-89	86½	24,876	80*	132½	27,286	5,607*	57,829	52,162

* There is no longer any Government transport service. These receipts are on account of hire of steamers, boats, and sundries.

TOLLAGE (ASSESSED).

Year.	Patna Canal System - Eastern Main Canal Series.	Arrah Canal System.	Buxar Canal System.	Total.
	Rs.	Rs.	Rs.	Rs.
1884-85	23,142	10,316	3,937	37,395
1885-86	19,523	14,808	7,388	41,719
1886-87	22,646	18,289	9,001	49,936
1887-88	28,206	15,306	8,030	51,542
1888-89	25,165	18,421	8,826	52,412

78. COMPARISON OF TRAFFIC. TRAFFIC

		1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
Number of miles open	No.	218½	218½	218½	218½	218½
Toll collections	Rs.	52,412	51,542	49,436	41,719	37,395
Rate of toll per mile	„	240	236	249	191	171
Boats, including empties ...	No.	8,096	8,116	8,573	7,210	6,434
Tonnage of boats	Tons	104,788	95,082	104,835	77,006	61,744
Estimated value of cargo, including rafts	Rs.	58,04,029	56,80,508	64,65,651	36,41,863	41,10,598

The decrease in the tollage levied on the Patna canal system, which is wholly under the head Tollage on rafts, is more than covered by increased tollage assessed during the year in the other canal systems. The decreased tollage on rafts is stated to be due to the stock of bamboos at Patna being in excess of the demand. The remaining variations do not appear to call for remark.

79. The expenditure on navigation establishment was Rs 13,071, against Rs 13,212 in the previous year NAVIGATION ESTABLISHMENT

80. There is no Government Steam Transport Service on the Sone canals, but three steamers, the property of Government, are hired to a contractor, who maintains a weekly service on the Patna canal, and a bi-weekly service on the Arrah and Buxar canals. The services are regularly maintained, and are understood to be popular, though the speed, owing to various considerations, is slow, barely averaging, including stoppages, four miles an hour. TRANSPORT SERVICE.

81. The miscellaneous receipts for the last five years are given in the following statement:— MISCELLANEOUS RECEIPTS

		1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
		Rs.	Rs.	Rs.	Rs.	Rs.
Sale of water		387	370	702	1,742	582
Plantations		383	394	319	307	178
Other canal produce		1,816	2,145	2,904	2,424	1,339
Water power		835	708	668	469	488
Rent of buildings		8,247	7,197	7,198	7,213	6,409
Fines		224	317	169	653	734
Miscellaneous ...	Rent of lands	7,995	10,997	15,231	14,369	13,770
	Fisheries	734	502	565	421	732
	Cost of process	3,739	2,474	6,302	6,414	7,066
	Sale of old materials ..	102	60	443	355	405
	Other items	2,042	3,295	3,213	3,713	8,651
	Total ...	26,504	28,459	37,714	38,080	40,354

The only considerable decrease has been under the head rent of lands. It was last year explained that it had been found necessary to retain possession of land likely to be required for repair purposes owing to difficulties experienced in reclaiming it when required.

82. The state of the plantations in each division at the close of the years 1887-88 and 1888-89 is shown in the following statement:— PLANTATIONS

Division.	1888-89.				1887-88.				Increase.	Decrease.
	Trees over 12 feet in height.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.	Trees over 12 feet in height.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.		
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Eastern Sone	71,473	30,366	53,530	155,376	64,280	28,334	59,440	152,054	3,322	...
Arrah	35,871	23,379	61,019	120,268	31,503	15,274	54,844	101,621	19,247	...
Buxar	13,438	6,973	23,306	43,716	9,693	14,765	18,327	42,785	931	...
Total ...	120,787	60,719	137,854	319,360	105,476	58,373	132,011	295,860	23,500	...

The expenditure on plantations was Rs. 8,929, and the receipts Rs. 383, against Rs. 8,300 and Rs. 394, the respective amounts in the previous year. The plantations have not yet arrived at a stage in which any substantial sums

can be expected to be received as earnings, but there is a satisfactory progressive increase in the number of trees which require little or no outlay in keeping up.

FINANCIAL RESULTS.

83. The receipts on revenue account and working expenses of the Sone Canals for the year 1888-89 and the nine preceding years are shown in the statement below:—

	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.	1879-80.
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates	7,59,556	5,19,580	8,20,461	9,78,323	7,70,359	4,84,209	5,66,455	6,03,930	3,78,266	4,44,716
Navigation	57,829	55,904	54,254	46,243	51,761	55,193	71,205	93,116	61,145	39,859
Miscellaneous	26,504	28,459	37,714	38,080	40,354	34,405	47,007	39,246	39,933	47,013
Total ...	8,43,889	6,03,940	9,16,429	10,62,646	8,62,474	6,03,807	6,84,677	7,36,292	4,78,644	5,31,588
Less refunds of revenue	12,611	15,331	15,737	10,657	7,455	5,429	1,237	1,329	1,637	1,945
Net total receipts .	8,31,278	5,88,618	9,02,692	10,51,989	8,55,019	5,98,378	6,83,440	7,34,963	4,77,007	5,29,643
WORKING EXPENSES.										
DIRECT CHARGES.										
I.—Works, Maintenance and Repairs.										
Works (extensions and improvements).	10,426	5,532	.	..	...		..	..	...	
Repairs, including compensation.	3,23,182	3,08,448	3,08,765	2,83,315	3,44,336	2,76,235	3,17,901	2,80,891	2,85,049	1,91,820
Establishment, including direction and accounts.	1,97,077	2,10,227	71,066	65,163	79,300	69,477	73,042	68,943	71,610	41,929
Tools and plant	33,920	28,321	27,698	32,451	26,175	34,983	11,898	3,196	580	4,586
Total ...	5,70,205	5,52,428	4,07,529	3,80,929	4,50,313	3,74,795	4,02,841	3,28,032	3,57,699	2,38,335
II.—Revenue Management.										
Irrigation establishment	1,58,249	1,35,243	1,43,660	1,46,028	1,29,308	1,14,005	1,05,883	1,14,268	1,03,476	1,06,334
Navigation establishment.	14,165	14,308	14,535	14,756	16,885	20,218	19,890	13,678	10,613	10,483
Total	1,72,414	1,49,551	1,58,195	1,60,784	1,46,193	1,34,253	1,25,763	1,27,961	1,13,094	1,17,017
Total direct charges ...	7,42,619	7,01,979	5,65,724	5,41,713	5,96,506	5,09,048	5,28,604	4,55,993	4,70,793	3,55,352
*Indirect charges.**										
Capitalization of abatement of land revenue.	...	...	.		...	...	...	.	...	...
Leave and pension allowances.	51,813	50,369	32,097	31,632	31,569	27,682	19,933	32,871	31,638	27,326
Total indirect charges ...	51,813	50,369	32,097	31,632	31,569	27,682	19,933	32,871	31,638	27,326
Total working expenses .	7,94,432	7,52,348	5,97,821	5,73,345	6,28,075	5,36,730	5,48,537	4,88,864	5,02,371	3,82,678
Net revenue .	36,846	(—)1,63,730	3,04,871	4,78,644	2,26,944	61,648	1,34,903	2,46,099	(—)25,364	1,47,065

* These are now shown under the suggestion of the Government of India.

Compared with 1887-88, the net revenue is Rs. 36,846 against a deficit of Rs. 1,63,730, which is mainly due to the increase in the total receipts from Rs. 5,88,618 to Rs. 8,31,278.

The working expenses during the year have exceeded those incurred in any year up to date, and, considering the small revenue derived from the canals, it is essential that any increase under this head shall be jealously watched.

In respect to the area irrigated, the year has been compared with 1884-85, and on referring to the table above it will be seen that the working expenses were Rs. 6,28,075 in that year, against Rs. 7,94,432 in 1888-89, showing an increase of Rs. 1,66,357, out of which Rs. 118,377 is in one item—"Establishment employed on maintenance, including direction and accounts." This increase in cost is apparent only. In 1884-85 a charge of 23 per cent. on the expenditure incurred on maintenance and repairs was made the balance being debited to the provincial establishment Roads and Buildings Branch, whilst at present the actual cost of the establishment employed, which is less than that actually engaged on the same work in the former year, is debited to this head The new method of charging establishment has in fact added upwards of Rs. 1,10,000 to the permanent yearly working expenses of the Sone canals.

In 1888-89, Rs. 10,426 was expended on Extensions and Improvements, whilst in 1884 85 there was no expenditure under that head.

Under the head Maintenance, the expenditure in 1884-85 was Rs. 16,656 in excess of that incurred during the current year.

The expenditure on Tools and Plant was in excess in 1888-89 by the sum of Rs. 7,745, chiefly owing to the increased number of dredgers and mud punts now in use.

Under the head Revenue Management irrigation establishment there is an excess of Rs. 28,941 in 1888-89 wholly on the item headmen's fees. The actual expenditure on irrigation establishment was Rs. 1,07,411 in 1884-85 and Rs. 85,371 in 1888-89.

There was a reduction of Rs. 2,720, compared with 1884-85, under the head Navigation establishment.

Setting aside former years, there was special expenditure in 1888-89 on the following items:—

I.—Substituting masonry arches in place of wooden platforms in the case of 14 bridges over the Chowsa and Gurra Chowbey Canals.

II.—Rebuilding the piers of the river sluices on the Dehree side of the Sone weir. On this work Rs. 50,024 were expended during the year.

III.—The payment of one year's arrears of headmen's fees, amounting to Rs. 10,949, for 1886-87 in the Arrah Division.

In future years, now that the whole of the piers of the river sluices of the Sone weir have been reconstructed, the expenditure on works (extensions and improvements and maintenance) should be kept within Rs. 3,00,000, and there ought also, compared with 1888-89, to be a reduction of Rs. 10,000 in the item headmen's fees.

84. The cost of repairs to head-works during the last five years is shown below:— REPAIRS TO HEAD WORKS.

	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
	Rs.	Rs	Rs.	Rs.	Rs.
Sone weir	63,245	47,150	68,570	34,908	29,922
Other works	10,097	12,997	10,419	7,697	9,462
Total ...	73,342	60,147	78,989	42,605	39,384

The extra cost of maintaining the head-works was wholly due to special expenditure, amounting to Rs. 50,024, on the remodelling of the Dehree river sluices of the Sone weir. Work on rebuilding the piers was commenced in December, and the whole of the masonry work completed by the 31st March; the gates and fittings were finished before the present rains; the total expenditure on the new piers was Rs. 56,826. The whole of the piers of the river sluices of the Sone weir have now been rebuilt. Excluding special repairs to the river sluices, the expenditure on the head-works was Rs. 23,318 in 1888-89, against Rs. 25,139 in 1887-88.

85. The outlay on main canals and distributaries in each division during the last two years is shown below:— MAINTENANCE OF MAIN CANALS AND DISTRIBUTARIES.

	Arrah Division.		Buxar Division.		Eastern Sone Division.	
	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Western Main canal	44,298	42,388	20,109	10,456	...	...
Eastern ditto	...	...	...	...	22,722	30,672
Canals	34,443	25,717	10,766	11,686	23,015	26,395
Branch canals	14,559	16,874	14,206	12,710	...	...
Distributaries	29,453	27,136	15,172	12,604	17,216	19,806
Drainage and protective works ...	2,358	3,044	163	388	2,753	2,944
Total ...	1,25,111	1,15,159	60,406	47,844	65,706	79,817

These figures are taken from the Superintending Engineer's report. The cost of maintenance, excluding head-works and telegraph lines, is Rs. 2,51,223, against Rs. 2,42,820 shown last year.

Both in the Arrah and Buxar Divisions the expenditure during the year was more than that of the year 1887-88. The increase is mainly due to special silt clearing in the 9th to the 13th miles of the Main Western canal and in miles 28 to 58 of the Arrah canal which had not been carried out for many years. The renewal of the Pakri bungalow roof with iron beams has also contributed

somewhat towards the excess expenditure. The outlay in the Eastern Sone Division was Rs. 14,111 less than in the year preceding.

SILT CLEARING AND DREDGING.

86. The quantity of silt dredged from the Eastern and Western Main canals, and the rate at which the work was done during the last two years, are given below :—

CANALS.	1888-89.			1887-88.		
	Cubic feet dredged.	Cost, including removal over spoil bank or discharge into river.	Rate per 1,000 cubic feet.	Cubic feet dredged.	Cost, including removal over spoil bank or discharge into river.	Rate per 1,000 cubic feet.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Eastern Main and Patna	23,27,518	12,944	5 9 0	30,56,923	17,521	5 11 6
Western Main ...	75,44,478	49,724	6 9 5	77,69,055	46,049	5 14 10

The Superintending Engineer makes the following observations in the increase in rate per 1,000 cubic feet in the case of the Western Main canal, and on the charge for interest and depreciation adverted to in last year's report :—

The rates compare unfavourably with those of the previous year, when for the most important item, Main Western canal, the rate was Rs. 5-14-10 per 1,000 cubic feet of silt dredged. This is in part due to liabilities for 1887-88, amounting to Rs. 2,209,* having been paid in 1888-89. Deducting this amount from the whole expenditure for 1888-89 and adding it on to that of 1887-88, the rates for the Main Western canal become Rs 6-5-4 per 1,000 cubic feet for 1888-89 and Rs. 6-2-11 for 1887-88. The rate for 1886-87 was Rs. 7-6-6 per 1,000 cubic feet. It may be added that during 1888 89 the work was spread over 13 miles instead of being confined to the first 9 miles of the canal as usual

* On 86,55,367 cubic feet dredged.

Turning to the cost of dredging only, leather belting and rope cost Rs. 3,693 in 1888-89 and Rs. 1,313 in 1887-88. The extra cost during the year was partly owing to silt having been to a greater extent than usual thrown into the river requiring an extra length of rope, and partly to the month in which the ropes and belting were renewed falling in 1888-89. The extra rate owing to this cause in the Main Western canal is annas 4-4 per 1,000 cubic feet Amongst other causes for the extra cost was Rs. 400 charged during the year for making a road through the spoil bank to the river.

The expenditure on repairs to dredgers was as follows :—

		Rs.
Fouracres' dredgers	(12)	7,704
Bruce's ,,	(2)	754
English ,,	(2)	4 300
Mud punts	(64)	2,870

If the total cost of dredging is required, the following sums, details regarding which are given in the Revenue Report for 1886-87, should be added to the rates mentioned above :—

	C. ft.	Rs. A. P.
For Fouracres' dredgers	per 1,000	2 12 8
,, Bruce's ,,	,, 1,000	4 14 4
,, English ,,	,, 1,000	8 13 3
,, Mud punts ,,	,, 1,000	2 14 1

The dredgers are laid up during part of the year, but this will have no effect on the charge for interest and depreciation, as the number of dredgers and punts cannot be diminished, every dredger and mud punt at times during the rains barely sufficing to keep the canal open, and it is a question whether the dredgers do not suffer nearly as much when laid up as when at work : it is the difference between rubbing and rusting. In any case the interest would be the same, as the dredgers cannot be employed on other work. The dredging accounts are perhaps not in such detail as might be desired, but further minute accuracy would involve increased clerical establishment. Instructions will be given that in future liabilities and not payments only during the year are to be taken into account.

In future reports the actual cost based on liabilities should certainly be shown, and it would be well to show the number of days during which the dredgers have been employed and been laid up.

The quantity and cost of silt clearances by hand in the Eastern Main and Patna canals during the last two years is shown in the following table:—

	1888-89.			1887-88.		
	Cubic feet cleared by hand.	Cost.	Rate.	Cubic feet cleared by hand.	Cost.	Rate.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Eastern Main and Patna canals ...	27,75,668	10,542	3 12 9	1,961,162	9,691	4 13 6

In the case of the Western Main canal, in addition to the charge for dredging, Rs. 3,460 was spent in the Arrah Division and Rs. 258 in the Buxar Division on silt clearing by hand.

In the Arrah canal silt clearing on a more extensive scale than usual was carried out during the year, the quantity removed by hand being 28¼ lakhs cubic feet at a cost of Rs. 8,282, and Rs. 1,444 was also expended on dredging silt accumulated in front of locks.

The expenditure incurred during the year on dredging and clearing silt in the branch canals and distributaries is shown below:—

	Rs.
Eastern Sone Division.	
Distributaries, Patna Canal System	1,359
Arrah Division.	
Doomraon branch canal	938
Behea branch canal	88
Distributaries	4,934
Drainage and protective works	813
Buxar Division.	
Buxar canal	453
Chowsa branch canal	56
Distributaries	479

87. The cost of weed-clearing for the last five years is shown in the following table:— WEED CLEARING.

	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.
	Rs.	Rs.	Rs.	Rs.	Rs.
Eastern Sone Division	217	568	314	2,115	1,589
Arrah Division	1,725	3,342	2,218	2,491	3,976
Buxar ,, ...	869	1,015	2,065	77	...
Total ...	2,811	4,915	4,597	4,683	5,565

It will be seen from above table that the cost of weed clearing during the year was about half of that incurred during preceding year.

This decrease in expenditure is attributed partly to the heavy discharge of the canals in October, which had apparently some effect in retarding the growth of the weeds, and partly to the silt clearance in the lower part of the Arrah canal previous to the rains which, for the time being, destroyed nearly all the weeds there. In the previous year the weeds in these miles had been very troublesome.

88. The mileage rates of cost of repairs are worked out below both for canals and distributaries, and compared with the rates of the two previous years in the statement below:— MILEAGE RATES OF REPAIRS.

Canal.	Division.	1888-89.		1887-88.		1886-87.	
		Number of miles.	Cost per mile.	Number of miles.	Cost per mile.	Number of miles.	Cost per mile.
		No.	Rs.	No.	Rs.	No.	Rs.
Eastern Main Canal	Eastern Sone	7½	3,134	7½	4,230	7½	2,245
Western ditto	Arrah	5	6,859	5	8,427	5	7,385
	Buxar	16½	1,218	16½	633	16½	546
Buxar Canal	Do.	43½	238	43½	258	43½	406
Patna do.	Eastern Sone	79	291	79	334	79	305
Arrah do	Arrah	65½	527	65½	392	65½	455
Doomraon Branch	Do.	40½	187	40½	242	40½	152
Behea ditto	Do.	31	220	31	229	31	183
Chowsa ditto	Buxar	39½	346	39½	195	39½	209
Garra Chowbey Branch	Do.	33	119	33	131	33	131
Distributaries	Arrah	467½	63	467½	58	467½	54
	Buxar	343	44	341½	37	333½	53
	Eastern Sone	353	43	358	55	357	43

The increase in the mileage rates, where such occur, is wholly due to the larger quantity of silt removed, which is itself a consequence of the larger area irrigated during the last two years.

CLOSURES OF CANALS.

89. The Western Main series of canals were closed from the 1st to the 12th June 1888, the Eastern Main series from the 17th April to the 25th May 1888, and the Arrah canal from the 28th mile downwards from the 2nd May to the 12th June 1888.

FLOODS.

90. There were high floods during the year both in the river Sone and in the river Ganges. Little or no damage, however, was caused to the canal works. The highest readings on the gauges are noted below :—

RIVER SONE.

LOCALITY.	1888-89—17TH AUGUST 1888.		1887-88—18TH JULY 1887.		HIGHEST KNOWN, 1876-77—7TH JULY 1876.	
	Above weir.	Below weir.	Above weir.	Below weir.	Above weir.	Below weir.
Dehree	340·50	339·50	338·40	337·40	342·10	341·00
Baroon	342·60	340·40	340·13	338·10	343·50	342·70

RIVER GANGES.

LOCALITY.	Date.	Reading.	HIGHEST KNOWN SINCE 1874.	
			Date.	Reading.
Buxar	20th September 1888 ..	119 21	6th September 1875...	200·71
Deegah	19th „ „ ...	168·53	14th August 1879...	169·20
Hajipore, confluence of rivers Ganges and Gunduck.	19th „ „ ...	165·60	August „ ...	166·20

The Dehree canal head sluices were closed for 58½ hours and the Baroon canal head sluices for 136 hours during floods to avoid the influx of water heavily charged with silt.

CALCUTTA AND EASTERN CANALS.

CAPITAL ACCOUNT.

91. The Capital and Revenue Accounts of these canals are given below :—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1888-89.	Outlay to end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.
Old outlay prior to the year 1861-62	.....	24,91,012
I.—Works	40,448	20,35,313
II.—Establishment	10,765	3,85,196
III.—Tools and plant	229	3,45,816
IV.—Profit and loss	.....	847
V.—Suspense accounts	(—) 3,580	10,797
Total ...	47,862	52,68,981
Less receipts on Capital account	.....	41,553
Net total direct charges ...	47,862	52,27,428
INDIRECT CHARGES.		
Leave and pension allowances	1,507	61,057

2—REVENUE ACCOUNT—(ACTUALS).

REVENUE ACCOUNT.

	EXPENDITURE			RECEIPTS.	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
I.—Works, Maintenance and Repairs.					
Old outlay prior to the year 1861-62 ..	...	13,63,615	Old revenue prior to the year 1861-62	...	80,17,101
Works (extensions and improvements) ...	4,573	9,01,017	Navigation ...	5,69,920	1,18,16,300
Repairs	1,63,656	29,72,469	Miscellaneous	5,224	4,17,028
Establishment, including direction and accounts...	46,981	10,23,917	Total ...	5,75,144	2,02,50,429
Tools and plant ...	29,054	90,759	*Less* refunds of revenue ...	19	19
Total ...	2,44,264	63,51,777			
II.—Revenue Management.					
Navigation establishment	37,684	11,61,263			
Total direct charges ...	2,81,948	75,13,040			
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ...	...	...			
Leave and pension allowances	11,853	1,90,064			
Total direct charges ...	11,853	1,90,064			
Total working expenses...	2,93,801	77,03,104			
Profit	2,81,324	1,25,47,306			
Total ...	5,75,125	2,02,50,410	*Net* total receipts ...	5,75,125	2,02,50,410

* These are now shown under the suggestion of the Government of India

92. The following statement shows the financial results of these canals for the last ten years. The figures are both for direct and indirect charges:— FINANCIAL RESULTS.

YEAR.	CAPITAL OUTLAY		RECEIPTS AND WORKING EXPENSES.			Percentage of net revenue to capital outlay to end of year.
	During the year.	To end of the year.	Gross revenue.	Charges (direct and indirect).	Net revenue.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1879-80	2,60,998	35,89,495	3,44,565	1,92,949	1,51,616	4·2
1880-81	6,26,886	42,16,381	4,14,145	2,19,323	1,94,821	4 6
1881-82	5,58,268	47,74,649	4,82,467	3,32,221	1,50,246	3 1
1882-83	3,21,341	50,96,090	5,64,194	3,26,597	2,37,597	4 6
1883-84	1,55,514	52,51,514	5,64,101	2,32,031	3,32,070	6·3
1884-85	9,013	52,60,547	(a) 5,69,736	2,91,214	2,78,512	5·3
1885-86	(−)42,566	52,17,981	(b) 4,79,484	1,96,209	2,83,275	5·4
1886-87	5,293	52,23,274	4,83,634	1,92,264	2,91,390	5·5
1887-88	15 842	52,39,116	5,79,934	2,24,656	3,55,278	6 7
1888-89	49,369	52,88,485	5,75,125	2,03,801	2,81,324	5 3

(a) Is Rs. 35,185 larger than it should be by reason of error of amount.
(b) Is Rs. 35,185 smaller than ditto ditto ditto.

The expenditure on Capital account was larger than it has been of recent years, and amounted to Rs. 49,369. Of this sum, Rs. 27,745 was spent on two wrought-iron caissons, to be used for closing the large locks at Dhappa and Chitpore, when these are under repair, and Rs. 12,258 on buildings, of which the chief are the new Dhappa toll-house, an inspection bungalow at Busseerhaut on the Eastern canals boat route, and a godown at Bhangore for the storage of goods recoverod from wrecks.

The gross revenue, though less than that of 1887-88, is greater than that of any other preceding year since 1879-80, while the net revenue, though better than that of the first six years of the decade, is worse than that of either of the

Although there has been a small reduction in the number of boats entering the canals, yet the result of a further reduction in the cost of establishments is again a small decrease in the cost per boat measured from 3·68 to 3·58 annas.

WRECKS. 99. The total number of boats wrecked owing to various causes during the year was 106, against 128 of the previous year.

MAINTENANCE CHARGES. 100. From the statement already given in paragraph 86, it will be seen that the working expenses, including all charges, direct and indirect, have increased from Rs. 2,24,656 to Rs. 2,93,801, and that this increase has taken place mainly in the cost of maintenance and repairs, which has risen from Rs. 1,04,527 to Rs. 1,63,656. Under "Channels and Banks," on which the increase in the cost of maintenance is Rs. 39,158, is included the greater portion of the outlay on the Bhyrub and Assassooni khalls, two links in the chain of rivers and tidal creeks forming the Eastern boat route, both of which were laid dry and the work carried out at the end of 1887-88, the silt being cleared by hand. The clearance of the Tetooa khall and some extensive piling work near Hastings on Tolly's Nullah were also charged under this sub-head. Under "Towpaths," on which the increase is Rs. 5,616, much of the repairs carried out in 1887-88 was paid for in 1888-89, while on "Rustic Bridges," on which only ordinary charges had been incurred for some years, the renewals now found necessary caused an increase of Rs. 8,671.

DREDGING. 101. On "Dredging" the expenditure has increased from Rs. 4,254 to Rs. 10,979. 979,700 cubic feet of silt were dredged by two dredgers for Rs. 8,698; an average rate of Rs. 8-14 per thousand cubic feet. The quantity dredged in the previous year was 350,700 cubic feet, and the rate Rs. 9-8-4 per thousand.

ORISSA COAST CANAL.

CAPITAL ACCOUNT. 102. The Capital and Revenue accounts of this canal are given below:—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1888-89.	Outlay to end of 1888-89
	Rs.	Rs.
DIRECT CHARGES.		
I.—Works	70,302	32,19,103
II.—Establishment	24,963	7,26,121
III.—Tools and plant	3,464	1,74,816
IV.—Suspense accounts	(—) 911	37,311
Total ...	97,818	41,57,351
V.—*Less* receipts on Capital account	7	3,278
Net total direct charges ...	97,811	41,54,073
INDIRECT CHARGES.		
Capitalized abatement of land revenue ...	.....	784
Leave and pension allowances	3,495	1,01,572
Total indirect charges	3,495	1,02,356

A revised estimate for this canal was sanctioned by the Secretary of State in August 1889, and amounted to Rs. 43,46,873 (direct charges), or Rs. 1,92,800 over the total expenditure to end of the year 1888-89. The canal has been open throughout its entire length of 97½ miles during the year. The works in progress under "Original works" comprised the finishing up of the canal banks, locks, and ferry ghâts, and the completion of the Panchpara supply pipe.

The canal is practically complete, though certain details, such as the provision of accommodation for the tolls establishment, ferry ghâts, &c., remain to be carried out. Some 2,900,000 cubic feet too of earth has still to be taken out of the bed, but as it offers no serious obstacle to navigation, and to dredge it would be expensive, its removal has been deferred.

The expenditure has been entirely from Provincial Funds with the exception of Rs. 8,66,000 contributed from Imperial Protective Funds. There is no interest account.

2—REVENUE ACCOUNT (ACTUALS). REVENUE ACCOUNT.

	EXPENDITURE.			RECEIPTS.	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
I.—Maintenance and Repairs.					
Maintenance and repairs	42,606	1,63,007	Navigation ...	65,047	1,60,088
Establishment, including direction and accounts	11,377	41,112	Miscellaneous ...	1,381	3,400
Tools and plant ...	14,462	27,428	Total ...	66,428	1,63,488
Total ...	68,445	2,31,547	*Less*—Refunds of revenue ...	254	271
II.—Revenue Management.					
Navigation Establishment	6,123	13,474	Net total receipts	66,174	1,63,217
Total direct charges ...	74,568	2,45,021	Deficit ...	10,844	89,446
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ...	.....	.....			
Leave and pension allowances ...	2,450	7,642			
Total indirect charges...	2,450	7,642			
Total working expenses	77,018	2,52,663	Total ...	77,018	2,52,663

* These are now shown under the suggestion of the Government of India

103. The receipts and working expenses of the Orissa Coast canal since the year 1885-86, when the Revenue account was first opened, are shown in the following statement:— FINANCIAL RESULTS.

	1888-89.	1887-88.	1886-87.	1885-86
RECEIPTS.	Rs.	Rs.	Rs.	Rs.
Water-rates	...	...	(—)1	1
Navigation	65,010	52,828	28,587	13,663
Miscellaneous	1,418	1,026	902	54
Total ...	66,428	53,854	29,488	13,718
Less refunds of revenue ...	254	17	...	...
Net total receipts ...	66,174	53,837	29,488	13,718
WORKING EXPENSES.				
DIRECT CHARGES.				
I.—Maintenance and Repairs.				
Repairs	42,606	53,277	43,969	23,155
Establishment, including direction and accounts	11,377	14,289	10,120	5,326
Tools and plant	14,462	8,743	3,432	791
Total ...	68,445	76,309	57,521	29,272
II.—Revenue Management.				
Navigation establishment ...	6,123	4,559	2,183	609
Total direct charges ...	74,568	80,868	59,704	29,881
INDIRECT CHARGES.				
Capitalized abatement of land revenue	...	...	...	...
Leave and pension allowances ...	2,450	2,639	1,722	831
Total indirect charges ...	2,450	2,639	1,722	831
Total working expenses ...	77,018	83,507	61,426	30,712
Net revenue	(—)10,844	(—)29,670	(—)31,938	(—)16,994

RECEIPTS. The increase in the navigation receipts is satisfactory. The Superintending Engineer, however, notices that out of Rs. 66,428, which were the toll-takings of the whole canal, no less than Rs. 45,275 were derived from Range III. The traffic still seems to be almost entirely local, and the only vessels which perform the through journey from Calcutta to Chandbally are the steamers of the Calcutta Steam Navigation Company. The question of encouraging through boat-traffic may now be considered, and it may be that a reduction of through tolls would result in an increase of revenue.

MAINTENANCE. There is a decrease of Rs. 6,252 in the working expenses, including direct and indirect charges. The cost of repairs declined from Rs. 53,277 to Rs. 42,606, and the average cost per mile from Rs. 546 to Rs. 437. Some of the expenditure on repairing cyclone damages of previous years was incurred during the year under review. The expenditure on tools and plant was greater by Rs. 5,719. Heavy repairs to barges and steam launches, and renewals of ferry boats were carried out.

TRANSPORT SERVICE. 104. The bi-weekly service of steamers maintained by two Calcutta companies between Calcutta and Cuttack attracted 27,747 passengers, chiefly pilgrims. The Executive Engineer states:—"No sufficient attention is paid by the companies to the service of such a town as Balasore on this route. The accommodation provided for pilgrims at stopping places is scanty and insufficient and detrimental to their health, and complaints of overcrowding were by no means few."

FLOODS. 105. The disastrous inundation of the country traversed by Range III of the Orissa Coast Canal, which followed the heavy rainfall of August 1888, has already been mentioned, in the remarks on the Hidgellee Canal. It is generally admitted that the silting of the main drainage outlets which causes these floods, is chiefly due to the excessive land reclamation which has taken place about the mouths of these channels, and to the construction of bunds across the channels after the flood season, according to custom from an early period. Certain modifications have been suggested, and some are being carried out, in the works of the Coast Canal, so that the canal shall assist in relieving the country as far as possible. The Superintending Engineer states that the works were not appreciably injured by the floods.

SARUN CANALS.

CAPITAL ACCOUNT. 106. The Capital and Revenue accounts of these canals are given below :—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1888-89.	Outlay to end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.
I—Works	...	4,79,946
II—Establishment	.....	1,64,170
III—Tools and plant	.....	25,612
Total ...	...	6,69,728
V—*Less* receipts on Capital account ...	...	498
Net total direct charges ...	.....	6,69,230
INDIRECT CHARGES.		
Capitalized abatement of land revenue	.....	97
Leave and pension allowances	...	27,086
Total indirect charges ...	.....	27,183

2.—REVENUE ACCOUNT (ACTUALS).

REVENUE ACCOUNT.

	EXPENDITURE			RECEIPTS	
	During 1888-89	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
Maintenance and repairs	23,976	1,92,784	Water-rates ...	20,415	1,52,151
Establishment ...	10,248	53,911	Navigation ...	...	263
Tools and plant ...	673	(—)6,831	Miscellaneous ...	399	7,441
Total direct charges ...	34,897	2,39,864	Total ...	20,814	1,59,855
INDIRECT CHARGES.*			*Less* refunds of revenue ...	...	...
Capitalized abatement of land revenue ...	...	...			
Leave and pension allowances	1,435	8,261	Net total receipts	20,814	1,59,855
Total indirect charges ...	1,435	8,261	Deficit ...	15,518	88,270
Total working expenses	36,332	2,48,125	Total ...	36,332	2,48,125

* These are now shown under the suggestion of the Government of India.
No works chargeable to Capital Account were carried out during the year.

FINANCIAL RESULTS.

107. The receipts and working expenses of the Sarun canals since the year 1880-81, when the Revenue account was first opened, are shown in the following statement:—

	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates	20,415	21,070	11,072	39,737	8,397	22,057	16,268	3,585	9,560
Navigation	...	...	...	...	1	13	19	230	...
Miscellaneous	399	(—)405	1,355	1,406	943	971	1,740	502	530
Total ...	20,814	20,665	12,427	41,143	9,341	23,041	18,027	4,317	10,090
Less refunds of revenue	...	...	...	...	...	...	...	...	...
Net total receipts	20,814	20,665	12,427	41,143	9,341	23,041	18,027	4,317	10,090
WORKING EXPENSES.									
Direct charges.									
Maintenance and repairs	23,976	18,601	23,481	18,014	19,983	20,659	29,828	38,242	...
Establishment	10,248	9,119	5,400	4,144	4,506	4,751	6,860	8,793	...
Tools and plant	673	400	(—)978	593	371	(—)2,009	(—)3,086	(—)2,795	...
Total direct charges ...	34,897	28,120	27,903	22,751	24,950	23,401	33,602	44,240	...
Indirect charges.									
Capitalisation of abatement of land revenue.	...	...	...	...	...	...	...	...	...
Leave and pension allowances.	1,435	1,277	756	580	643	665	1,346	1,559	...
Total indirect charges ..	1,435	1,277	756	580	643	665	1,346	1,559	...
Total working expenses ..	36,332	29,397	28,659	23,331	25,593	24,066	34,948	45,799	...
Net revenue ...	(—)15,518	(—)8,732	(—)16,232	17,812	(—)16,252	(—)1,025	(—)16,921	(—)41,482	10,090

The increased cost of repairs is due to extensive repairs to the protective works at Siswa, the head of the Main canal, and to the construction of a bund at Chuttahi just above the Gundaki feeder above the Rupan Chap *sota*, which is *de facto* the main canal, and which broke into the river Gunduck during the rains of 1888. This cut has, notwithstanding the efforts made to prevent it, further developed during the current year, and is certain to be a cause of much trouble and expense.

The cost of silt clearing was moderate, 1,092,134 cubic feet of silt having been removed at a cost of Rs. 3,684. against 1,489,000 cubic feet costing Rs. 5,452 in 1887-88.

IRRIGATION.

108. These canals were, as last year stated, primarily intended for the supply of water for the manufacture of indigo. The water available is to a certain extent used for irrigation, but the areas returned as irrigated are not reliable, there being no special establishment employed to assess water-rates, which are collected by the gentlemen who have guaranteed a revenue of Rs. 21,850. There are no distributaries and but few village channels, and the guarantors are understood to have considerable difficulty in assessing lands watered direct from the canals, which are in fact the old nullahs of the country.

There was a complete failure of the *Hutia* rain, and in consequence a demand for water for rice irrigation, and also to a limited extent for rabi irrigation, as seeds could not be sown in many places for want of moisture without artificial irrigation.

The areas irrigated for all years since 1881-82 are shown below:—

	Acres.
1881-82	666
1882-83	1,741
1883-84	21,122
1884-85	7,223
1885-86	4,565
1886-87	2,146
1887-88	4,218
1888-89	7,213

COLLECTIONS.

109. The amount of the guarantee is recovered by the Collector of Sarun. The assessments, remissions, and recoveries for the canals are shown below:—

	Rs.
Balance unrecovered on the 1st April 1888	24,321
Assessment of the year's guarantee	21,850
Miscellaneous revenue collected by Executive Engineer ...	399
Total ...	46,570
Remitted	Nil
Net demand ...	46,570
Recovered on account of guarantee by Collector	...
Guarantee paid by canal managers	19,384
Fisheries	4
Miscellaneous	20
Realized by guarantors for water-rates	83
Realized by Collector for water-rate under Certificate Act ...	924
	20,415
Recovered by Executive Engineer	399
Total collections ...	20,814
Balance on 1st April 1889	25,756

The outstanding balance has increased slightly during the year.

PLANTATIONS.

110. The plantations are of but trifling extent. The number of trees in existence is shown in the table below:—

	1888-89.	1887-88.
	Rs.	Rs.
Trees over 12 feet in height	3,988	1,710
Saplings between 4 and 12 feet	1,751	694
Seedlings under 4 feet	3,693	1,915
Total ...	9,432	4,319

The expenditure on plantations up to the end of the year has amounted to Rs. 1,485.

FLOODS.

111. There were no floods during the year of any importance. The river Gunduck did not even reach the embankment; the highest flood was on 20th July 1888 when the gauge registered 240·50, which was 2·10 feet below the highest flood on record, viz., 242·60 in August 1883.

GENERAL.

112. The guarantee expires on the 1st of April 1890. Preparations have been made to build a regulator at Hatpokur, but it will be necessary to determine what measures will be necessary to prevent the Rupan Chap *sota* forcing a passage into the river Gunduck at Chattahi before expending a considerable sum of money on a regulator below that place.

NUDDEA RIVERS.

113. The channels comprising the Nuddea rivers system are situated in the districts of Moorshedabad and Nuddea. Their approximate lengths are as follows:—

Bhagiruthee	...	167 miles to Nuddea.
Bhyrub-Jellinghee ...	...	41 ditto.
Matabhanga	...	138 miles to outfall on the Hooghly.
Hooghly	...	31 miles from Nuddea to Chogda.
		477 miles.

The management of the revenue has passed from the hands of the Board of Revenue to the Public Works Department. A revenue account also has been opened for these rivers. Both changes were effected at the commencement of the year under report.

REVENUE ACCOUNT.

The Revenue Account is given below:—

	Expenditure			Receipts	
	During 1888-89.	To end of 1888-89.		During 1888-89.	To end of 1888-89.
DIRECT CHARGES	Rs.	Rs.		Rs.	Rs.
I.—Works, Maintenance and Repairs.			Old revenue prior to the year 1870-71 ...	...	38,79,660
Old outlay prior to the year 1870-71 ...	...	23,95,857	Navigation ...	1,91,791	39,25,243
Works (extensions and improvements) ...	...	29,124	Miscellaneous ...	97	17,305
Repairs .	88,933	9,00,167	Total ...	1,91,888	78,22,208
Establishment, including direction and accounts ...	20,389	3,51,049	*Less*—Refunds of revenue	...	...
Tools and plant ...	2,380	1,66,515			
Suspense accounts .	(—)14	4,891	Net total receipts ...	1,91,888	78,22,208
Total ...	1,11,688	38,47,603			
II.—Revenue Management.					
Navigation Establishment	23,006	3,96,603			
Total direct charges ...	1,34,694	42,44,206			
INDIRECT CHARGES.*					
Capitalized abatement of land revenue ...	...	...			
Leave and pension allowances ...	6,075	2,21,813			
Total indirect charges	6,075	2,21,813			
Total working expenses	1,40 769	44,66,019			
Profit	51,119	33,56,189			
Total ...	1,91,888	78,22,208			

* These are now shown under the suggestion of the Government of India.

MADHUBAN CANAL.

120. This a small canal of which no capital or revenue accounts are kept. The special repairs to the weir mentioned in last year's report were completed early in the year, and the canal was opened for irrigation on the 15th August 1888. Water was continually running until the 31st January 1889, when 2½ inches of rain fell and stopped the demand for water. The area irrigated was 8,560 acres, including 3,830 acres of opium. The expenditure incurred on maintenance was Rs. 4,194 against Rs. 9,821 spent in the year previous, which, however, included Rs. 4,729 for special repairs against Rs. 582 required for this purpose in 1888-89.

GENERAL REMARKS.

NET REVENUE

121. The working of the canals classed as Major irrigation works in Bengal resulted in a net deficit of Rs. 23,721, as below:—

	Rs.
Gross direct receipts	13,94,369
Ditto charges	14,18,090
Deficit ...	23,721

The budget estimate of net revenue was (—) Rs. 42,000, and the revised estimate, which provided for an additional Rs. 26,000 in working expenses, was (—) Rs. 68,000.

In 1887-88 the revenue on the Sone canals had been seriously affected by the local agitation against the canal administration, and consequently the net result of the year on Major works had been a loss of Rs. 4,00,356. The budget estimate for 1888-89 was framed with the expectation that this adverse influence would gradually be brought to rest; and though many indications in the course of the year made it clear that this expectation was being fulfilled, and that the benefits of irrigation were being freely admitted by the users of water, still the state of the collections at the time the revised estimate was issued was not such as to justify any substantial advance on the figures of the original estimate. Ultimately the receipts exceeded the estimate by Rs. 36,369, while the working expenses were less by Rs. 7,910.

	Budget estimate.	Revised estimate.	Actuals.
	Rs.	Rs.	Rs.
Direct receipts	13,58,000	13,58,000	13,94,369
Do. charges	14,00,000	14,26,000	14,18,090
Net revenue ...	—42,000	—68,000	—23,721

EARNINGS.

122. The net income from Major works calculated on the earnings of the year is shown below—

	1888-89. Rs.
Orissa canals	(—)70,282
Midnapore canal	82,123
Hidgellee Tidal canal	(—)22,943
Sone canals	83,080
	71,978

The result shown in this statement is calculated on the actual navigation and miscellaneous receipts, as well as the whole amount of the water-rates assessable on crops raised by canal water supplied during the year. In the Revenue Reports of previous years, earnings have been calculated on the demand on which it was possible to make recoveries. In the present report the whole of the liability incurred, whether recoverable within the year or not, is taken as revenue earned, less actual refunds. This is in accordance with the instructions

of the Government of India, and is the same as the method followed in the Upper Provinces. On the expenditure side actual charges, direct and indirect, have been taken.

123. The approximate value of crops irrigated by Major irrigation works during the last two years is shown below:— VALUE OF CROPS.

CANALS.	1887-88.		1888-89.	
	Area irrigated.	Value of crops.	Area irrigated.	Value of crops.
	Acres.	Rs.	Acres.	Rs.
Orissa canals	109,506	19,06,362	159,292	51,64,168
Midnapore canal	65,864	13,17,280	69,777	17,44,425
Sone canals	315,380	76,89,808*	355,909	1,10,07,607
Total ...	490,750	1,09,13,450	584,978	1,79,16,200

* This is the correct figure.

This statement is compiled from returns submitted for the Orissa and Midnapore canals by the Deputy Revenue Superintendents, and for the Sone canals by the Superintending Engineer. The percentage of increase shown in the area irrigated is 18, while that of the value of crops raised by canal water is 64; a result brought about by a general rise in prices, as well as a general improvement in the outturn from irrigated lands. Several glaring inaccuracies in the returns of valuation for 1887-88, some of which were noticed in the Chief Engineer's note of that year, have been corrected in the comparative statement given above. For instance, Rs. 12 per acre, given by the Deputy Revenue Superintendent as the value of the Orissa rice crop of 1887-88, is now admitted to have been much too low an estimate, and is raised to Rs. 18 per acre, which compares to Rs. 32 per acre, the valuation of the same crop in 1888-89. Similar errors noticed in the returns received from the Sone canals have also been corrected. The following abstract, compiled from the corrected figures, shows that on these canals there has been an increase in the value per acre of food-grains and sugarcane and a decrease in the value of opium:—

CROPS.	RATES PER ACRE.					
	1887-88.			1888-89.		
	Eastern Sone.	Arrah.	Buxar.	Eastern Sone.	Arrah.	Buxar.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Sugarcane	96·6	50	100	105·4	100	100
Wheat	28	17·5	28	28	24	28
Barley	22·5	12·5	22	22	15	22
Rice	24	19	22	30	29·8	28
Miscellaneous cereals	12·5	12	14	24	18·4	13·7
Opium	75	40	48	49	39·	48

124. The state of the canal plantations on Major works is shown in the following statement:— PLANTATIONS.

CANALS.	1887-88.			1888-89.		
	Trees 12 feet high and above.	Saplings between 4 and 12 feet.	Seedlings.	Trees 12 feet high and above.	Saplings between 4 and 12 feet.	Seedlings.
	No.	No.	No.	No.	No.	No.
Orissa Canals ...	46,329	23,039	59,459	50,318	21,571	49,992
Midnapore Canal ...	6,959	4,640	4,788	8,128	5,517	6,315
Hidgellee Tidal Canal	1,172	3,875	3,121	1,632	4,290	2,594
Sone Canals ...	105,476	58,373	132,011	120,787	60,719	137,854
Total ...	159,936	89,927	199,379	180,865	92,106	196,695

NAVIGATION RECEIPTS.

125. The toll collections on each canal system, with the percentage of cost of collection on receipts, and the cost of measuring each boat, are given below:—

	TOLL COLLECTIONS.		PERCENTAGE OF CHARGES FOR COLLECTION TO AMOUNT COLLECTED.		COST OF MEASURING EACH BOAT.	
	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.
Works partly for Irrigation and partly for Navigation.	Rs.	Rs.	Rs.	Rs.	Annas.	Annas.
Orissa Canals	66,628	69,830	13·7	13·6	5·8	7·1
Midnapore Canal	1,26,574	1,46,760	6·1	5·1	2·5	2·2
Sone Canals	50,984	52,162	28·0	25·1	28 2	25·8
Total ...	2,44,186	2,68,752	12·7	11·2	6·0	5·8
Works for Navigation only.						
Hidgellee Tidal Canal ...	40,406	53,910	7·4	5 9	3·5	3·1
Calcutta and Eastern Canals ...	5,71,872	5,65,491	6·8	6·7	3·7	3 5
Orissa Coast Canal	52,828	65,010	8 6	9·4	6·0	7·2
Nuddea Rivers	1,98,318	1,91,749	11·1	12 0	5 4	6·0
Total ...	8,63,424	8,76,160	7·9	8·0	4·2	4·3
GRAND TOTAL ...	11,07,610	11,44,912	.....	.....	.....	.....

The revival of trade on the Midnapore canal, which had set in in the previous year, has continued to gain strength. The two river systems alone show decreased incomes, and it is probable that the introduction of lower rates on the railways which compete with these routes was beginning to make itself felt in 1888-89, since it is found to have caused a very sensible decrease on the boat traffic in 1889-90.

126. It has not been the custom, at least of late years, to bring to notice in the Revenue Report the names of members of the establishment who may have specially distinguished themselves by their conduct of their duties; and, finding such the case, I have hitherto refrained from altering the custom, although I have by no means failed to appreciate the good work of those who have been serving under me. Where officers, as a body, are so earnest, conscientious, self sacrificing, and hard-working, as those with whom I have been connected during my stay in the province, and where the men who do not give satisfaction are so few and far between, it must always be felt a somewhat invidious duty to select officers for special mention, and the custom of omitting all individual notice has, I confess, afforded me a sense of relief. Now, however, that I am about to sever my connection with the province, I feel that I ought not to lose this opportunity, when submitting the last Revenue Report of the province which will issue under my signature, of showing my appreciation of the more special services which some members of the establishment have rendered, and of thanking all, with but few exceptions, for their excellent work, and all without exception for their good-will, kindliness and thorough loyalty towards one, who, however anxious he might be not to appear in that character, could scarcely fail to be considered as somewhat of an interloper.

The officers in charge of Circles during my tenure of office have been:—

Orissa Circle—Major McArthur, Mr. Rhind.

South-Western Circle—Messrs. Wickes and Vertannes (now retired) and Major McArthur.

Sone Circle—Mr. Odling and Major McArthur, the latter for a short time only.

One and all have conducted their duties to my entire satisfaction; but if any one is to be specially noticed, I would mention Mr. Odling for the exceptionally able manner in which he has managed his Circle at a most trying period in the existence of the Sone Canals.

Amongst officers who have been in charge of divisions during the same period, whilst nearly all have conducted their duties in an excellent manner, I would specially mention Messrs. Faulkner, Horn, Inglis, Livesay, Scotland, Shawe, Stephen, Frost, Carter; and amongst sub-divisional officers, Messrs. A. S. Thomson, Lees, Coy, Frost, Carter, C. A. White, Arnott, Silk, Barlow, Clowes, Stawell, and Searight.

During the year under review and its predecessor, the strain on the canal officers, divisional and sub-divisional, has been specially severe, and excellent service has been rendered by all in a very trying season More especially has this been the case on the Sone Canals, where, owing to the system in force, the work thrown on the engineering staff is heavier than it is elsewhere, and the Superintending Engineer brings prominently to notice the excellent service rendered by the divisional and sub-divisional canal officers in an exceptionally trying season.

I travelled over the greater part of the main canals in 1888, just when the severe demand was commencing to subside, so that I have personal konwledge of the difficulties experienced. The Divisional Engineers, Mr. Horn, Buxar; Mr. Inglis, Arrah; and Mr. Frost, Eastern Sone, are distinctly entitled to praise for the successful exertions they made to extend the benefits of irrigation as widely as possible, and Mr. Stephen, the Executive Engineer at Dehree, is equally deserving of credit for the promptitude with which he conducted the difficult operation of closing the vents in the under-sluices at Dehree. The Superintending Engineer's commendation of the sub-divisional officers was well earned.

Lastly, I thank heartily for their good work the officers who have performed the duties of Under-Secretary—Major McArthur and Messrs. Buckley and Shawe. I have invariably found them most helpful and loyal, and of the greatest assistance in every portion of the duties of my office.

127. The date for the submission of Revenue Reports to the office of the Chief Engineer is the 15th September. The dates when the different reports were received are shown below:—

		In 1888.	In 1889.
Orissa Circle ...	Commissioner's report ...	26th October...	3rd October.
	Superintending Engineer's report	3rd ditto ...	9th ditto.
South-Western Circle	Commissioner's report ...	24th September	16th September.
	Superintending Engineer's report	24th ditto ..	28th ditto.
Sone Circle ...	Commissioner's report ...	6th October .	28th September.
	Superintending Engineer's report	17th September	14th ditto.

The reports were punctual, with the exception of those of the Commissioner of the Orissa Division and the Superintending Engineer, Orissa Circle. The Finance and Administrative Accounts of the year 1888-89 due on the 1st were received from the Examiner on the 22nd August.

C. W. I. HARRISON, Lt.-Col., R.E.,

The 6th January 1890. *Offg. Chief Engineer.*

IA.

PUBLIC WORKS DEPARTMENT.

STATEMENT OF CANALS IN THE PROVINCE OF BENGAL

	Orissa Canals.			Midnapore Canal.	Ridgelles Tidal Canal.	Sone Canals.			Sarun Canals.	Calcutta and Eastern Canals.	Orissa Coast Canal.
	Mahanuddy Series.	Brahmini-Byturni Series.	Total			Eastern Main Canal Series.	Western Main Canal Series.	Total.			
Source of supply of water ...	River Mahanuddy.	Rivers Brahmini and Byturni		River Cossye.	Rivers Rupnarain and Russulpore.	River Sone.			River Gunduck.	River Hooghly and Soonderbund Creeks.	Rivers Russulpore, Subunreka, Panchpara, Burrabolong, and Metai.
Minimum discharge of river—cubic feet per second ... ... Kharif ...	Not observed	1,205 82	1,25 802	700	Tidal canal for navigation only.	5,257, October 22nd, 1883.			5,082	Tidal canal for navigation only.	Tidal canal for navigation only.
Rabi ...	1,558	725 56	2,283·56	200		1,868, February 16th, 1884					
Hot-weather	417	172·33	589 33	100		447, May 27th, 1879.					
Maximum discharge of canal—cubic feet per second	3,902	2,156·00	6,058·00	1,400		1,613	4,342	5,955	1,084		
Average annual rainfall ... Inches	48·36	51·40	49·88	62·13		41 68	41·06	41·25	41·36		
Gross area commanded ... Acres	373,772	137,500	511,272	180,000		406,155	1,322,354	1,728,509	64,000		
Culturable ditto ... ,,	439,951	137,500	577,451	173,160		317,307	1,033,089	1,350,396	50,000		
Area irrigable by complete project ... ... ,,	439,951	137,500	577,451	125,000		309,040	707,360	1,016,400	50,000		
Area irrigable at present ... ,,	208,419	42,500	250,919	125,000		309,040	707,360	1,016,400	30,000		
Sanctioned estimate—											
Direct charges ... Rs.	3,13,96,220		3,13,96,220	83,16,768	17,72,699	2,78,88,697		2,78,88,697	6,63,521	.....	34,45,742
Indirect do. ... ,,	9 19.625		9,19,625	1,84,215	44,607	13,99,607		13,99,607	33,111	. ....	1,56,555
Interest during construction ... ... ,,	1,21,54,723		1,21,54,723	38,60,294	2,17,460	29,67,227		29,67,227	...	.....	.....
Total estimate ... ,,	4,44,70,568		4,44,70,568	1,23,61,277	20,34,966	3,22,55,531		3,22,55,531	6,96,632	.....(a)	36,02,297

Expenditure to end of 1888-89—												
Direct charges ...	Rs.	2,35,37,322		2,35,37,322	82,66,010	17,95,489	2,52,84,682		2,52,84,682	6,69,230	52,27,428	41,54,073
Indirect do ...	„	5,31,481		5,31,481	1,83,711	44,807	8,98,559		8,98,559	27,183	61,057	1,02,356
Interest during construction	„	1,37,83,108		1,37,83,108	54,17,730	2,17,460	1,35,32,306		1,35,32,306	.....	.....	.....
Total expenditure ...	„	3,78,51,911		3,78,51,911	1,36,67,451	20,57,756	3,97,15,547		3,97,15,547	6,96,413	52,88,485	42,56,429(b)
Works as now sanctioned—												
Main canals, irrigation ...	Miles	138½	31½	170	53(c)	29(c)	86½	132½	218½	6½	27	99(a)
Branch do., do ...	„	107½	6½	114	19	Nil	Nil	148½	148½	12½	Nil	Nil
Distributaries ...	„	1,763	384	2,147	304·59	Nil	358	827½	1,185½	....	Nil	Nil
Of above—												
Navigable channels ...	Miles	199½	38	237½	72	29	86½	132½	218½	.. ...	27	99
Works completed at end of 1888-89—												
Main canals, irrigation ...	Miles	114	31½	145½	53	29	86½	132½	218½	6½	27	97½
Branch do., do ...	„	100	6½	106½	19	Nil	Nil	148½	148½	12½	Nil	Nil
Distributaries ...	„	713	47½	760½	283·19	Nil	358	810½	1,168½	.....	Nil	Nil
Of above—												
Navigable channels ...	Miles	139	38	177	72	29	86½	132½	218½	.....	27	97½

(a) There is no general sanctioned estimate for this project.
(b) Includes Rs 8,66,000 expended from famine relief funds.
(c) Includes length of river crossings.

IB.

PUBLIC WORKS DEPARTMENT, BENGAL.

CAPITAL ACCOUNTS OF IRRIGATION WORKS IN BENGAL FOR AND TO END OF 1888-89.

		Direct Charges—net expenditure.						Indirect charges, exclusive of interest.	Total capital, excluding interest.	Simple interest.
		Works.	Establishment.	Tools and plant.	Suspense account.	Loss by exchange.	Total.			
Major Irrigation Works.		Rs.	Rs	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa project ...	To end of previous year	1,63,78,368	41,83,995	19,58,232	1,25,218	2,68,070	2,29,13,883	5,16,202	2,34,30,085	1,28 54 084
	During 1888-89 ..	4,80,714	1,06,375	15,043	21,307	.... .	6,23,439	15,279	6,38,718	9,29,024
Midnapore canal ..	To end of previous year	53,30,800	19,15,054	8,82.328	40,363	94,800	82,63,345	1,83,658	84,47.003	50187,143
	During 1888-89 ..	—40	1	—429	3.133	..	2,665	53	2.718	3.30,587
Tidal canal ...	To end of previous year	12,66,239	4.49,790	56,670	.....	22,790	17,95,489	44,807	18,40,296	12,58 963
	During 1888-89 ...	.....	. ...	... ..	.. ...	.....	.....	.....	.....	71 820
Sone project ..	To end of previous year	1,79,22,464	50,28,525	19 57,439	1,75,571	52,240	2,51,36,239	8,95 662	2,60,31,901	1,25,23,888
	During 1888-89 ..	93,206	20,691	21,776	12,770	...	1,48,443	2,897	1,51,340	10,08,418
Total ...	To end of previous year	4,08,97,871	1,15,77,364	48,54,669	3,41,152	4,37,900	5,81,08,956	16,40,329	5,97,49,285	3,17.24,078
	During 1888-89 ...	5,73,880	1,27,067	36,490	37,210	.....	7,74,547	18,229	7,92,776	2 1,39,849
Minor Works and Navigation.										
Tirhoot project ...	To end of previous year	90,685	4,33,943	6.797	.....	.....	5,31,425	74,650	6,06,075	.....
	During 1888 89	... ..	.. ...	.. ...	.....	.....	.....	.....	.. ...	... ..
Damudar project...	To end of previous year	52,677	94,864	4,800	.....	.....	1,52,341	16,239	1,68,580	.....
	During 1888-89 ...	—1,200	.....	...	.....	.....	—1,200	.....	—1,200	.....
Sarun project ...	To end of previous year	4,79,448	1,64,170	25,612	.....	.....	6,69,230	27,183	6,96,413	.. ...
	During 1888-89 ...	. ..	.	... .	.....	.....	... ..	.....	.....	.....
Orissa coast canal	To end of previous year	31,45,795	7,00,898	1,71,347	38,222	.. ...	40,56,262	98,861	41,55,123	.....
	During 1888-89 ...	70,295	24,963	3.464	—911	.....	97,811	3,495	1,01,306	.....
Calcutta and Eastern canals.	To end of previous year	44,45,171	3,74,431	3,45,587	14,377	.....	51,79,566	59,550	52,39,116	... ..
	During 1888-89 ...	40.448	10,765	229	—3,580	.....	47,862	1,507	49,369	...
Total ...	To end of previous year	82,13,776	17,68,306	5,54,143	52,599	... ..	1,05,88,824	2,76,483	1,08,65,307	.....
	During 1888-89 ...	1,09,543	35,728	3,693	—4 491	.....	1,44,473	5,002	1,49,475	.....
Grand Total	To end of previous year	4,91,11,647	1,33,45,670	54,08,812	3,93,751	4,37,900	6,86,97,780	19,16,812	7,06,14,592	3,17,24,078
	During 1888-89 ...	6,83,423	1,62,795	40,083	32,719	... ..	9,19,020	23,231	9,42,251	23,39,849

NOTE.

Receipts on capital account deducted from the following heads:—

		Works.	Establishment.	Tools.	Total.
		Rs.	Rs.	Rs.	Rs.
Orissa project ...	To end of previous year...	36,459	13,300	28,280	78,039
	During 1888-89 ...	7,738	.....	.....	7,738
Midnapore canal	To end of previous year...	11,874	7,300	11,590	30,764
	During 1888-89 ...	29	... ...	.....	29
Tidal canal ...	To end of previous year...	.....	.....	915	915
	During 1889-89 ...	.....	.....	.....	.....
Sone project ...	To end of previous year...	1,40,842	32,711	1,33,640	3,07,193
	During 1888-89 ...	44	.....	.....	44
Tirhoot project ...	To end of previous year...	45	74	39	158
	During 1888-89 ...	.....	.....	.....	.....
Damudar project	To end of previous year...	37,949	.....	2,300	40,249
	During 1888-89 ...	1,200	.....	.....	1,200
Sarun project ...	To end of previous year...	498	.....	.....	498
	During 1888-89 ...	.....	.....	.....	.....
Orissa coast canal	To end of previous year...	3,006	260	5	3,271
	During 1888-89 ...	7	.....	.....	7
Calcutta and Eastern canals.	To end of previous year...	41,553	.....	.....	41,553
	During 1888-89 ...	.....	.....	.....	.....

I

PUBLIC WORKS

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

Realisations under Main heads of

Irrigation Works.	Revenue (actual receipts).									
	Irrigation.			Navigation.	Plantations and land.	Water-power.	Miscellaneous.	Total.	Refunds of revenue.	Gross revenue, less refunds.
	Water-rates directly paid.	Share of land revenue.	Total.							
1	2	3	4	5	6	7	8	9	10	11
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Irrigation Works.										
Orissa project	1,51,365	.....	1,51,365	77,906	1,450	.....	12,792	2,43,513	221	2,43,294
Midnapore canal	91,016	.....	91,016	1,49,480	44	.....	11,255	2,51,795	285	2,51,510
Tidal	.....	.....	.....	53,921	64	.....	1,185	55,170	73	55,097
Sone project	7,59,556	.....	7,59,556	57,829	383	835	25,286	8,43,889	12,611	8,31,278
Total ...	10,01,937	.....	10,01,937	3,39,136	1,941	835	50,518	13,94,369	13,190	13,81,179
Minor Works and Navigation.										
Tirhoot project	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Damoodar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sarun	20,415	.....	20,415	.....	6	.....	393	20,814	.....	20,814
Orissa coast canal	.....	.....	.....	65,047	.....	....	1,381	66,428	254	66,174
Calcutta and Eastern canals	.....	.....	.....	5,69,990	711	.....	4,518	5,75,144	19	5,75,125
Nuddea rivers	.....	.....	.....	1,91,791	.....	.....	97	1,91,888	.....	1,91,888
Total ...	20,415	.....	20,415	8,26,758	717	.....	6,384	8,54,274	273	8,54,001
Grand Total ...	10,22,352	.....	10,22,352	11,65,896	2,658	835	56,902	22,48,643	13,463	22,35,180

(a) Irrigation revenue officers specially

Note.—The charges for "Direction" and "Executive" establishment have been equally

C.

DEPARTMENT, BENGAL.

WORKS IN BENGAL FOR THE YEAR ENDING 31ST MARCH 1889.

Revenue and Working expenses.

WORKING EXPENSES.																	
REVENUE MANAGEMENT.					MAINTENANCE OF WORKS.												
Establishment.					Establishment.												
Direction.	Executive.	Navigation.	Civil Officers (a).	Total revenue management.	Direction.	Executive.	Medical.	Total.	Works.	Repairs.	Sundries.	Tools and plant.	Plantations.	Total cost of maintenance.	Indirect charges.	Grand total, working expenses.	Net revenue.
15	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
5,917	29,185	15,724	43,161	93,995	5,918	29,183	...	35,101	.....	2,35,092	...	21,156	1,602	2,92,951	18,073	4,05,019	-1,61,798
2,654	15,402	7,530	25,027	51,533	2,653	15,402	...	18,055	.....	1,05,104	...	24,135	1,015	1,48,529	9,742	2,09,804	41,706
1,316	6,970	3,195	.....	11,481	1,316	6,970	...	8,286	1,718	50,468	...	2,808	452	63,732	2,767	78,040	-22,942
8,465	90,373	14,165	1,53,249	2,71,252	8,465	90,374	...	98,839	10,426	3,19,166	..	33,920	9,016	4,71,367	51,813	7,94,432	36,846
18,352	1,41,929	40,644	2,27,337	4,28,261	18,352	1,41,929	...	1,60,281	12,144	7,09,830	...	82,279	12,105	9,76,630	82,395	14,87,295	-1,06,116
.....	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	...	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	...	.....	.....	.....	...	.....	.....	.....	.....	.....	.....
600	4,523	.....	.....	5,123	599	4,524	...	5,123	.....	22,737	...	673	1,339	29,772	1,455	36,352	-15,518
1,065	4,623	6,123	.....	11,811	1,065	4,624	...	5,689	.....	42,648	...	14,463	.....	62,787	2,450	77,018	-10,944
4,205	19,285	37,694	.....	61,174	4,206	19,285	...	23,491	4,573	1,63,230	...	29,054	426	2,20,774	11,353	2,93,801	2,81,32
2,223	7,971	23,006	.....	33,200	2,224	7,971	.	10,195	.....	88,933	--14	2,380	.....	1,01,494	0,075	1,40,769	51,119
8,093	36,404	66,813	.	1,11,310	8,094	36,404	...	44,498	4,573	3,17,506	—14	46,569	1,665	4,14,797	21,813	5,47,9 0	
26,445	1,78,333	1,07,457	2,27,337	5,39,571	26,446	1,78,333	...	2,04,779	16,717	10,27,336	—14	1,28,848	13,770	13,91,436	1,04,208	20,35,215	1,99,365

employed in collection of revenue.
(approximately) apportioned under he heads "Revenue Management" and "Maintenance."

IIC.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION WORKS IN BENGAL FOR THE YEAR 1888-89 BASED ON ACTUAL RECEIPTS.

Principal results of operations for the year ended 31st March 1889.

Irrigation Works.	Direct and indirect outlay to end of 1888-89.	Gross receipts, direct and indirect, from all sources.	Working expenses, direct and indirect.	Net revenue (excluding charges for interest).	Interest at 4 per cent. on direct capital outlay at commencement of year and at 2 per cent. on outlay during the year.	Surplus revenue after paying interest on direct capital outlay.		Excess charges, including interest on direct capital outlay.	
						Amount.	Percentage on total sum at charge.	Amount.	Percentage on total sum as charge.
1	2	3	4	5	6	7	8	9	10
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In operation.									
Tidal Canal	18,40,296	55,097	78,040	—22,943	71,820	.....	.....	94,763	5·15
In progress.									
Orissa Project	2,40,68,803	2,43,294	4,05,019	—1,61,725	9,29,024	.....	.....	10,90,749	4·53
Midnapore Canal	84,49,721	2,51,510	2,09,804	41,706	3,30,587	.....	.....	2,88,881	3·42
Sone Project	2,61,83,241	8,31,278	7,94,019	36,846	10,08,418	.....	.....	9,71,572	3·71
Total ...	6,05,42,061	13,81,179	14,87,295	—1,06,116	23,39,849	.....	.....	24,45,965	4·04
Minor Works and Navigation.									
In operation.									
Sarun Project	6,96,413	20,814	36,332	—15,518	.....	.....	.....	.....	.....
Calcutta and Eastern Canals ...	52,88,485	5,75,125	2,93,801	2,81,324	.....	.....	.....	.....	.....
Nuddea Rivers	.....	1,91,888	1,40,769	51,119	.....	.....	.....	.....	.....
In progress.									
Orissa Coast Canal	42,56,429	66,174	77,018	—10,844	.....	.....	.....	.....	.....
Abandoned or held in abeyance.									
Tirhoot Project	6 06,075	.....	.....	.....	.....	.....	.....	.....	.....
Damoodar Project	1,67,380	.....	.....	.....	.....	.....	.....	.....	.....
Total ...	1,10,14,782	8,54,001	5,47,920	3,06,081	.....	.....	.....	.....	.....

IIIC.

PUBLIC WORKS DEPARTMENT, BENGAL.

DEMANDS AND REALIZATIONS DURING THE YEAR 1888-89.

	Balance of demand unrealized at commencement of year.	Demands of the year.	Total.	Deduct remissions not including cash refunds.	Net total.	Deduct amount unrealised at close of the year.	Actual receipts of the year.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Major Irrigation Works.							
Orissa project	92,109	2,88,915	3,81,024	22,912	3,58,112	1,14,597	2,43,515
Midnapore canal	56,493	2,84,116	3,40,609	4,041	3,36,568	84,773	2,51,795
Tidal do	.....	55,170	55,170	.....	55,170	.....	55,170
Sone project	4,11,281	8,37,550	12,48,831	24,329	12,24,502	3,80,613	8,43,889
Total ...	5,59,883	14,65,751	20,25,634	51,282	19,74,352	5,79,983	13,94,369
Minor Works and Navigation.							
Sarun project	33,492	22,249	55,741	.....	55,741	34,927	20,814
Orissa Coast canal	.....	66,428	66,428	.....	66,428	.....	66,428
Calcutta and Eastern canals ..	.....	5,75,144	5,75,144	.....	5,75,144	.....	5,75,144
Nuddea rivers	.....	1,91,888	1,91,888	.....	1,91,888	.....	1,91,888
Total ...	33,492	8,55,709	8,89,201	.....	8,89,201	34,927	8,54,274
GRAND TOTAL ...	5,93,375	23,21,460	29,14,835	51,282	28,63,553	6,14,910	22,48,643

NOTE A.—Refunds of revenue have not been deducted from actual receipts of the year.
NOTE B.—The demand of the year, as shewn in this table, is that portion of the demand which was both legally recoverable and of which the assessments were completed, within the year.

IVC.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION WORKS IN BENGAL FOR THE YEAR ENDED 1888-89 BASED ON ASSESSMENTS OF THE YEAR.

Principal results of operations for the year ended 31st March 1889.

Irrigation Works.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.								Working expenses, direct and indirect.	Net assessed revenue of the year.	Percentage on capital outlay to end of the year.
		Direct Assessed Revenue.						Indirect revenue. Land revenue due to operations of canal.	Grand Total.			
		Occupiers' rate (water-rates.)	Owners' rate.	Plantations.	Water power.	Navigation.	Miscellaneous.	Total.				
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Orissa project	2,40,68,803	2,42,808	.....	1,450	.....	77,908	12,792	3,34,958	.....	3,34,958	4,05,019	—70,061	·29 Deficit.
Midnapore canal	84,49,721	1,31,433	.....	44	.....	1,49,480	11,255	2,92,212	.....	2,92,212	2,09,804	82,408	·97
Tidal canal	18,40,296	.....	.....	64	.....	53,921	1,185	55,170	.....	55,170	78,040	—22,870	1·24 Deficit.
Sone project	2,61,83,241	8,05,790	.....	383	835	57,829	25,286	8,90,123	.....	8,90,123	7,94,432	95,691	·36
Total ...	6,05,42,061	11,80,031	.....	1,941	835	3,39,138	50,518	(a)15,72,463	.....	15,72,463	14,87,295	—85,168	·14
Minor Works and Navigation.													
Sarun project	6,96,413	21,850	.....	6	.....	.....	393	22,249	.....	22,249	36,332	—14,083	2·02 Deficit.
Orissa Coast canal	42,56,429	.....	.....	.....	.....	65,047	1,381	66,428	.....	66,428	77,018	—10,590	·24 Deficit.
Calcutta and Eastern canals ...	52,88,485	.....	.....	66	.....	5,69,920	5,158	5,75,144	.....	5,75,144	2,93,801	2,81,343	5·32
Nuddea rivers	... ..	.....	.....	.....	.....	1,91,791	97	1,91,888	.....	1,91,888	1,40,769	51,119	.....
Total ...	1,02,41,327	21,850	.....	72	.....	8,26,758	7,029	(a)8,55,709	.....	8,55,709	5,47,920	3,07,789	3 00

(a) Refunds and remissions of revenue have not been deducted from the gross assessments shown above.

Note.—In this table the water-rates shown as assessed during the year are the amounts for which occupiers have rendered themselves liable in return for canal water supplied during the year, and include some demands which were not legally recoverable, and others of which the assessment papers were not completed, till after the close of the year.

ID.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF TRAFFIC ON CANALS IN BENGAL DURING THE YEAR 1888-89.

	Orissa canals.	Midnapore canal.	Hidgellee Tidal canal.	Sone canals.	Calcutta and Eastern canals.	Orissa Coast canal.	Total.	Nuddea rivers.
Length of canal open for navigation ... ... Miles	177	72	29	218½	(a)27	97½	621	477
Receipts—Tollage on private boats ... ... Rs.	62,130	(b)1,44,684	53,448	34,746	5,65,337	64,217	9,24,563	1,90,910
,, Government boats ... ... ,,	5,476	.....	206	9,232	.....	453	15,369	.....
,, Rafts ... ... ,,	2,218	2,076	254	8,184	154	340	13,226	529
Carrying operations or transport services. } Government boats ... ,,	8,078	.....	.....	(c)5,667	.....	.....	13,745	.....
Fines and sundries ... ... ,,	.....	2,720	11	.....	4,429	37	7,197	42
Total receipts ... ,,	77,908	1,49,490	53,921	57,829	5,69,920	65,047	9,74,105	1,91,791
Maintenance charges, including special navigation establishment ... ... ,,	46,606	12,480	78,040	40,173	2,93,801	77,018	5,48,318	1,40,769
Net revenue of year ... ... ,,	31,302	1,37,000	(—)24,119	17,656	2,76,119	(—)11,971	4,25,787	51,022
Total number of boats plying cargo ... ... No.	10,156	21,977	15,411	4,010	104,349	12,188	168,091	28,269
,, ,, passenger ... ... ,,	1,319	13,483	1,070	411	8,687	1,479	26,449	19,955
,, registered tonnage of boats by canal measurement, cargo ... ... Tons	123,684½	318,520	153,955	83,775	2,778,743	120,854	3,579,731½	826,196
,, registered tonnage of boats by canal measurement, passenger ... ... ,,	20,799½	73,023	11,680	9,474	23,235	20,307	167,508½	13,196
Ton mileage—Up ...	1,906,462	5,477,255	1,920,386	1,549,826	22,135,832	2,216,041	35,214,802	.....
Down ...	2,400,666	3,849,311	1,220,153	3,892,809	2,994,862	1,585,910	15,443,702	.....
Total ...	4,307,128	9,326,566	3,149,539	4,942,626	25,130,694	3,801,951	50,658,504	.....
Estimated value of cargoes—Up ... Rs.	22,47,397	60,56,943	16,14,108	20,95,402	6,28,62,526	13,11,721	7,61,88,196	1,43,89,845
Down ... ,,	22,92,402	70,27,234	10,60,290	34,48,954	82,13,003	10,42,269	2,36,93,151	2,33,04,456
Total ... ,,	45,39,799	1,30,84,196	32,83,407	55,44,446	7,10,75,529	23,53,990	9,98,81,347	3,66,94,301
Number of passengers—Total ... No.	69,203	167,259	84,032	40,635½	83,937	52,670	415,736½	50,555
Rafts, feet×feet×feet—Up ... c. ft.	47,745	182,974	5,373	18,425	21,032	16,240	291,789	7,485
,, ,, ,, Down ... ,,	288,783	3,701	28,244	2,701,651	21,222	10,109	3,053,710	106,102
Total ... ,,	336,528	186,675	33,617	2,720,076	42,254	26,349	3,345,499	113,587
Estimated value of rafts—Total ... Rs.	60,158	86,073	17,716	2,59,563	70,306	9,579	5,12,415	1,04,248
Tollage on boats per ton per mile ...	3·01 pies	2·9 pies	3·3 pies	1·7 pies	.....	3·3 pies	.....	.....
Tollage on rafts per 100 cubic feet ...	0·65 rupees	1-1-9 rupee	1·4 annas	4·7 annas	.....	1·20 rupees	.....	0·84 rupees

(a) This length is that of the Calcutta and new canals and Tolly's nullah. The Eastern canals are 313 miles in length, of which the inner boat route 166 miles, outer boat route 187 miles, and steamer route 350 miles,—total length 690 miles.
(b) Includes toll, amounting to Rs. 21,428, paid by Messrs. Hoare, Miller & Co., who maintain a transport service on the canal.
(c) This consists of (1) hire of three Government steamers, Rs. 4,000; (2) hire of four Government cargo boats, Rs. 1,160; and (3) hire of the accommodation, jolly-boats and mud punts, Rs. 307.

IID.

PUBLIC WORKS DEPARTMENT, BENGAL.

DESCRIPTION AND QUANTITIES OF GOODS, &c., CARRIED ON CANALS IN BENGAL DURING THE YEAR 1888-89.

	ORISSA CANALS.						MIDNAPORE CANAL.						HIDGELLEE TIDAL CANAL.						SONE CANALS.					
	TOTAL.				PRIVATE.		TOTAL.				PRIVATE.		TOTAL.				PRIVATE.		TOTAL.				PRIVATE.	
	Quantity—Tons.			Value.	Quantity.	Value.	Quantity—Tons.			Value.	Quantity.	Value.	Quantity—Tons.			Value.	Quantity.	Value.	Quantity—Tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.	Rs.	Tons.	Rs.	Up.	Down.	Total.	Rs.	Tons.	Rs.	Up.	Down.	Total.	Rs.	Tons.	Rs.	Up.	Down	Total	Rs.	Tons.	Rs.
Grain	14,801	7,685	22,486	12,27,000	22,486	12,27,000	67,388	6,665	74,053	33,65,036	74,053	33,65,036	37,551	48	37,599	14,04,500	37,599	14,04,500	824	12,719	13,383	10,47,029	13,553	10,47,029
Cotton ...	1½	55½	57	11,968	57	11,968	26	45	71	29,863	71	29,863	...	...	...	...	...	...	45	4	49	40,660	49	40,660
Oilseeds	401½	1,350	1,751½	1,73,357	1,751½	1,73,357	1,214	1,654	2,868	3,24,861	2,868	3,24,861	48	4	52	3,250	52	3,250	87	6,972	7,059	6,90,252	7,059	6,90,252
Salt	371½	1,741½	2,113	1,95,292	2,113	1,95,292	...	16,244	16,244	15,06,964	16,244	15,06,964	...	4,515	4,515	5,00,915	4,515	5,00,915	3,788	148	3,936	3,79,976	3,936	3,79,976
Piece-goods ...	24½	428½	453	64,778	453	64,778	78	300	378	11,69,081	378	11,69,081	...	388	388	2,75,950	388	2,75,950	2,298	206	2,503	7,83,769	2,467	7,81,269
Metals	2	...	2	1,240	2	1,240	506	870	1,376	12,64,225	1,376	12,64,225	22	69	91	18,237	69	12,237	142	29	173	7,05 437	108	6,98,412
Building materials	1,037½	22,636½	23,674	1,32,430	17,817	1,08,967	3,158	328	3,486	16,582	3,486	16,582	500	357	857	6,622	815	6,432	1,597	3,113	4,710	52,215	2,662	22,944
Miscellaneous ..	7,276½	7,538½	14,815	27,24,962	14,767	27,20,719	12,859	9,693	22,552	53,61,113	22,552	53,61,113	6,964	5,766	12,730	10,61,366	12,726	10,60,866	2,824	11,835	14,659	17,96,555	10,720	17,86,706
Fuel	1,640	586	2,226	8,713	1,976½	6,275	1,331	2,592	3,923	44,472	3,923	44,472	441	1,280	1,721	12,567	1,571	11,196	589	2,681	3,270	23,543	2,890	18,155
Timber	C. ft. 7,056 / No. 6,715	C. ft. 27,462 / No. 11,948	C. ft. 34,518 / No. 18,663	45,917	C. ft. 34,518 / No. 18,640	45,884	C. ft. 165,377	C. ft. 3,271	C. ft. 168,648	85,403	C. ft. 168,648	85,403	C. ft. 3,473	C. ft. 21,619	C. ft. 25,092	16,873	24,876	16,583	498	8,077	8,575	79,987	8 119	63,856
Bamboos	No. 1,600	No. 758,536	No. 760,136	14,290	No. 760,136	14,290	C. ft. 17,597	C. ft. 430	C. ft. 18,027	670	C. ft. 18,027	670	C. ft. 1,900	C. ft. 6,625	C. ft. 8,525	843	8,225	843	897	12,899	13,796	2,04,606	13,796	2,04,606
Total — Tons ...	25,556	42,021½	67,577½	45,99,957	55,417	45,69,799	86,560	38,391	124,951	1,31,70,269	124,951	1,31,70,269	45,526	12,427	57,953	33,01,123	57,735	33 92,784	13,600	59,685	73,285	58,04,029	65,229	57 33,925
Total — C. ft. ...	7,056	7,462	34,518		34,518		182,974	3,701	186,675		186,675		5,373	28,244	33,617		33,161		...	...	...	...	...	...
Total — No. ...	8,315	770,484	778,799		778,776		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

IID—*concluded.*

PUBLIC WORKS DEPARTMENT, BENGAL.

DESCRIPTION AND QUANTITIES OF GOODS, &c., CARRIED ON CANALS IN BENGAL DURING THE YEAR 1888-89.

	ORISSA COAST CANAL.						CALCUTTA AND EASTERN CANALS.						NUDDEA RIVERS.					
	TOTAL.				PRIVATE.		TOTAL.				PRIVATE.		TOTAL.				PRIVATE.	
	Quantity—Tons.			Value.	Quantity.	Value.	Quantity—Tons.			Value.	Quantity.	Value.	Quantity—Tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.	Rs.	Tons.	Rs.	Up.	Down.	Total.	Rs.	Tons.	Rs.	Up.	Down.	Total.	Rs.	Tons.	Rs.
Grain	32,414	2,692	35,106	12,89,972	35,106	12,89,972	327,264	81	327,345	2,91,97,911	327,345	2,91,97,911	6,711	100,384	107,095	62,42,813	107,095	62,42,813
Cotton	...	7	7	2,200	7	2,200	717	...	717	3,61,550	717	3,61,550	1	19	20	4,080	20	4,080
Oilseeds	154	...	154	12,435	154	12,435	9,582	89	9,971	10,85,358	9,971	10,85,358	599	29,932	30,531	28,66,198	30,531	28,66,198
Salt	10	2,583	2,593	2,21,858	2,593	2,21,858	12,832	65,340	78,172	75,16,884	78,172	75,16,884	39,824	675	40,499	35,74,866	40,499	35,74,866
Piece-goods	...	217	217	1,53,215	217	1,53,215	...	...	...	...	...	...	27	3	30	42,275	30	42,275
Metals	11	24	35	8,465	24	6,750	668	344	1,012	2,32,060	1,012	2,32,060	1,461	254	1,715	7,42,104	1,715	7,42,104
Building materials	207	338	545	9,690	345	9,405	91,229	1,305	92,534	11,56,829	92,534	11,56,829	2,782	1,554	4,336	60,376	4,336	60,376
Miscellaneous ...	2,007	4,222	6,229	6,36,610	6,228	6,36,322	242,319	12,873	255,192	3,00,21,360	255,192	3,00,21,360	44,654	131,104	175,758	2,39,00,913	175,758	2,39,06,913
Fuel	564	1,265	1,829	19,545	1,695	17,660	162,354	24,702	187,056	15,03,577	187,056	15,03,577	13,547	1,287	14,794	1,60,676	14,794	1,60,676
Timber	C. ft. 8,678	C. ft. 2,037	C. ft. 10,715	8,211	C. ft. 10,715	8,211	C. ft. 10,062	C. ft. 21,222	C. ft. 31,284	78,208	C. ft. 31,284	78,208	C. ft. 5,949	C. ft. 49,744	C. ft. 55,693	98,622	C. ft. 55,693	98,622
Bamboos	C. ft. 7,562	C. ft. 8,072	C. ft 15,634	1,368	C ft. 15,634	1,368	C. ft. 10,970	...	C. ft. 10,970	1,098	C. ft. 10,970	1,098	C. ft. 1,536	C ft. 56,358	C. ft. 57,894	5,626	C. ft. 57,894	5,626
Total { Tons ...	35,367	11,548	46,715	23,63,509	46,367	23,39,397	847,265	104,734	951,999	7,11,54,835	951,999	7,11,54,835	109,566	265,712	374,778	3,67,98,549	374,778	3,67,98,549
C. ft. ..	16,240	10,109	26,349		26,349		21,032	21,222	42,254		42,254		7,485	106,102	113,587		113,587	

Supplementary statement giving details of "Miscellaneous" articles of traffic on the Calcutta and Eastern Canals.

DESCRIPTION.	Quantity.	Value.
	Tons.	Rs.
Jute	137,854	1,63,63,405
Jaggery	12,205	13,27,185
Sugar	1,162	2,82,830
Tobacco	1,532	3,01,026
Fish	1,904	5,03,139
Hides	209	49,114
Poultry	306	2,06,613
Hay and straw	16,548	3,58,148
Oil	13,195	18,47,495
Earthenware	3,190	67,116
Other miscellaneous	67,127	87,15,289
Total ...	255,193	3,00,21,360

IE.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN BENGAL DURING THE YEAR 1888-89.

Name of Canal.	Areas irrigated in acres.							Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.			
	Kharif.	Rabi.	Total.	Flow.	Lift.	Double-cropped.		At Head.		Utilised.		Discharge at head.		Utilised.	
						Area irrigated.	Percentage of total area.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.
Kendrapara Canal and its branches	70,274	2,522	72,796	68,524	4,272	.....	.....	759·34	231·42	700·97	213·33	92·48	10·89	100·25	11·82
Taldundah ditto ditto	40,165	226	40,391	38,930	1,461	.....	.....	486·25	62·25	184·75	17·00	82·60	3·63	217·40	13·29
High Level Canal, Range I	18,091	1	18,092	16,451	1,641	.....	.....	255·76	146·12	161·48	36·51	70·73	.....	112·03	0·02
Total Mahanuddy Series ...	128,530	2,749	131,279	123,905	7,374	.....	.....	1,501·35	439·99	1,047·20	266 83	85·58	6·24	122·73	10·30
High Level Canal, Range II	2,355	30	2,385	2,334	51	.....	.....	75·97	14·84	75·97	2·30	30·99	2·02	30·99	13·04
Ditto, ditto III	25,623	.....	25,623	25,426	202	.....	.....	128·09	38·46	128·09	38·27	200·07	.....	200·07	.....
Total Brahmini-Byturni Series ...	27,983	30	28,013	27,760	253	.....	.....	204·06	53·30	204·06	40·57	137·13	0·56	137·13	0·74
Total Orissa Canals ...	156,513	2,779	159,292	151,665	7,627	.....	.....	1,705·91	493·29	1,251·26	307·40	91·74	5·63	125·08	9·04
Under Midnapore weir	60,263	.....	60,263	60,263	.....	.....	.....	370	.....	344	.....	162	.....	164	.....
Under Panchkoorah weir	9,514	.....	9,514	9,450	64	.....	.....	50	49	30	3	111	68	185	1,123
Total Midnapore Canal ...	69,777	.....	69,777	69,713	64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eastern Main Series	55,559	11,456	68,995	65,972	3,023	.....	.....	1,123	525	996	275	49·4	29·6	55·7	56·5
Western ditto	191,363	97,551	288,914	268,473	20,441	.....	.....	2,664	1,733	2,216	1,246	71·8	60·09	86·3	83·5
Total Sone Canals ...	246,922	108,987	355,909	332,445	23,464	.....	.....	3,787	2,258	3,212	1,521	65·2	53·	76·8	78·7
Sarun Canals	3,897	3,316	7,213	.....	.....	.....	.....	282	333	282	333	13·8	9·9	13·8	9·9

IIE.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT SHOWING INCIDENCE OF WORKING EXPENSES AND ASSESSED WATER-RATES ON CANALS IN BENGAL DURING 1888-89.

Name of Canal.	Average discharge of the year at canal head in cubic feet per second.	Water-rate assessed in 1888-89.					Gross assessed revenue from all sources.	Working expenses, direct and indirect.	Area irrigated during the year 1888-89.	Working expenses.			Occupier's rate (water-rate).		Total water-rates, direct and indirect.	
		Occupiers (water-rate).	Owners.	Total direct.	Indirect.	Total of direct and indirect.				Per cent. on gross revenue.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.
Major Irrigation Works.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Acres.							
Orissa project	.....	2,42,808	.....	2,42,808	.....	2,42,808	3,34,958	4,05,019	159,292	120·92	2·54	.....	1·52	.....	1·52	.....
Midnapore canal	.....	1,31,433	.....	1,31,433	.....	1,31,433	2,92,212	2,09,804	69,777	71·80	3·00	.....	1·88	.....	1·88	.....
Tidal canal	.....	.....	.....	.....	.....	.....	55,170	78,040	.....	141·45	.....	.....	.....	.....	.....	.....
Sone project	.....	8,05,790	.....	8,05,790	.....	8,05,790	8,90,123	7,94,432	355,909	89·25	2·23	.....	2·26	.....	2·26	.....
Total	.....	11,80,031	.....	11,80,031	.....	11,80,031	15,72,463	14,87,295	584,978	94·58	2·54	.....	2·02	.....	2·02	.....
Minor Works and Navigation.																
Sarun project	.....	21,850	.....	21,850	.....	21,850	22,249	36,332	7,213	163·29	5·03	.....	3·03	.....	3·03	.....
Orissa coast canal	.....	.....	.....	.....	.....	.....	66,429	77,018	.....	115·94	.....	.....	.....	.....	.....	.....
Calcutta and Eastern canal	.....	.....	.....	.....	.....	.....	5,75,144	2,93,801	.....	51·08	.....	.....	.....	.....	.....	.....
Nuddea rivers	.....	.....	.....	.....	.....	.....	1,91,888	1,40,769	.....	73·36	.....	.....	.....	.....	.....	.....
Total	.....	21,850	.....	21,850	.....	21,850	9,55,709	5,47,920	7,213	64·03	.....	.....	.....	.....	.....	.....

Note A.—Columns 2, 13, 15 and 17 cannot be filled in.

Note B.—In this table the water-rates shown as assessed during the year are the amounts for which occupiers have rendered themselves liable in return for canal water supplied during the year, and include some demands which were not legally recoverable, and others of which the assessment papers were not completed, till after the close of the year.

IIIE.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED IN BENGAL DURING THE YEAR 1888-89.

Description.	Orissa canals.		Midnapore canals.		Sone canals.		Sarun canals.		Total.	
	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Value.
	Acres.	Rs.	Acres.	Rs	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
Gardens and orchards ...	102	18,360	...	...	33	940	...		135	19,300
Sugarcane	196	78,400	...	...	22,468	22,69,245	...	...	22,664	23,47,645
Cereals ... Wheat ...	...	..	...	...	42,742	11,51,410	...	...	42,742	11,51,410
Barley ...	...	...	...	...	15,521	2,87,002	.	...	15,521	2,87,002
Rice ...	156,308	50,01,856	65,865	16,46,625	221,961	65,14,164	3,785	68,130	447,919	1,32,30,775
Maize ...		...	...	...	...	...	...	...	...	..
Juar ...	.	...	...	...	...	...	...	...	..	...
Cheena ..	1	12	...	...	6	60	...	...	7	72
Miscellaneous ..	26	260	...	...	4,355	65,347	2,808	56,160	7,189	1,21,767
Pulse ... Gram ...	...	...	...	.	4,640	60,186	...	...	4,640	60,186
Peas .	...	...	...	...	2,169	1,31,855	...	...	2,169	1,31,855
Miscellaneous...	292	8,760	...	...	4,027	4,788	...	...	4,319	13,548
Fodder crops... Grass, lucerne	...		.	...	...	...	...	..	...	...
Fibres ... Cotton, &c. ...	2,125	42 505	...	...	1	30	..	...	2,126	42,535
Dyes ... Indigo, &c. ...	186	12,825	...	...	1,001	40,012	112	5,600	1,299	58,437
Drugs ... Opium ...	...	...	...		1,785	81,479	...	..	1,785	81,479
Tobacco ...	...	...	...	...	...		371	61,215	371	61,215
Oilseeds ... Mustard ...	2	60	...	.	216	6,430	...	...	218	6,490
Linseed, &c. ...	44	880	...	...	13	195	...	...	57	1,075
Miscellaneous ...	10	250	...	...	24,209	3,94,464	137	2,740	24,356	3,97,454
Total ...	159,292	51,64,168	65,865	16,46,625	345,147(a)	1,10,07,607	7,213	1,93,845	577,517	1,80,12,245
Land insufficiently irrigated ...	...	...	3,912	97,800	..	...	..		3,912	97,800
Grand Total ..	159,292	51,64,168	69,777	17,44,425	345,147	1,10,07,607	7,213	1,93,845	581,429	1,81,10,045

(a) 345,147 acres together with 10,762 acres *hot-weather irrigation* make up the total 355,909 The *hot weather irrigation* is not valued, as it is almost entirely sugarcane which is already included in the above statement.

IVE.

PUBLIC WORKS DEPARTMENT, BENGAL.

COMPARATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1888-89 AND 1887-88 IN BENGAL.

Works supplying irrigation.	Civil districts.	Total area in acres.	Cultivated area in acres.	Areas irrigated in acres.						Rainfall.	
				1888-89.			1887-88.				
				Kharif, inclusive of sugarcane.	Rabi, inclusive of hot-weather.	Year.	Kharif, inclusive of sugarcane.	Rabi, inclusive of hot-weather.	Year.	1888-89.	1887-88.
										Inches.	Inches.
Orissa canals ...	Cuttack	.....	.....*	130,885	2,779	133,664	101,435	502	101,937	47·34	46·52
	Balasore	.. ...	... ..	25,628	.....	25,628	7,569	.....	7,569	51·77	53·20
	Total Orissa Canals ...	. ...	.....	156,513	2,779	159,292	109,004	502	109,506	49·55	49·86
Midnapore canal ...	Midnapore	.....	... .	66,408	3,369*	69,777	64,702	1,162*	65,864	68·00	55·38
Sone canals ...	Shahabad	2,806,400	2,192,500	191,363	97,551	288,914	190,702	63,477	254,179	44·78	41·23
	Patna	1,329,920	1,039,000	25,793	5,637	31,390	25,583	2,537	28,120	48·91	39 47
	Gya	3,015,680	2,356,000	29,806	5,799	35,605	29,150	3,931	33,081	51·88	38·95
	Total Sone canals ...	7,152,000	5,587,500	246,922	108,987	355,909	245,435	69,945	315,380	... .	.....
Sarun canals ...	Sarun	1,680,000	1,312,500	3,897	3,316	7,213	1,904	2,314	4,218	42·40	39·66
	Grand Total ...	.....	.. ...	473,740	118,451	592,191	421,045	73,923	494,968	.....	.....

* Boro rice.

No. IF (*vide* GOVERNMENT OF INDIA'S ORDER No 1101, DATED 6TH JUNE 1889.)

STATEMENT SHOWING THE WATER-RATES PER ACRE IN FORCE ON CANALS IN BENGAL DURING THE YEAR 1888-89.

Canals.	Description of leases and crops	Occupiers' rates per acre.	
		Flow irrigation.	Lift irrigation.
	ORISSA CIRCLE.		
		Rs. A. P.	Rs. A. P.
Orissa canals ...	I.—For the whole irrigable or rice cultivated area of any village if application is made for a lease of five years	1 8 0	1 0 0
	For the rice crop.		
	II.—For any fractional area of a village or for other terms	3 0 0	2 0 0
	For cold-weather crops.		
	III.—Dalua rice	1 8 0	1 0 0
	IV.—For cotton, tobacco, huldi, ginger, wheat, vegetables, indigo, and all garden produce grown in villages the rice lands of which are leased under rate I ...	1 0 0	0 10 0
	V.—For the above produce when grown in villages the rice lands of which are not leased under rate I	2 0 0	1 8 0
	VI.—For linseed, oilseed, dál and all pulses grown in villages the rice lands of which are not leased under rate I ...	0 8 0	0 5 0
	VII.—For the above produce when grown in villages the rice lands of which are not leased under rate I	1 0 0	0 10 0
	For perennial crops.		
	VIII.—For sugarcane	6 0 0	4 0 0
	IX.—The charge of filling tanks is Re. 1 per 10,000 cubic feet of water used.		
	SOUTH-WESTERN CIRCLE.		
	For the rice crop.		
Midnapore canal	I.—Under five-year leases	1 8 0	1 0 0
	II.—Under annual leases	2 8 0	1 10 0
	For winter crops.		
	III.—In exceptional cases when water is available	1 8 0	1 8 0
	IV.—The charge for the unauthorised use of canal water is Rs. 5 per acre per annum or such less sum as is fixed by the Collector.		

Canals.	Description of leases and crops.	Occupiers' rates per acre.	
		Flow irrigation.	Lift irrigation.
	SONE CIRCLE.		
		Rs. A. P.	Rs. A. P.
	For water supplied between the 25th June and the 1st April.		
	I.—Leases for one year.		
Sone canals ...	Rice	3 0 0	2 0 0
	Bhadoi, except rice	2 8 0	1 10 8
	Rabi	*2 0 0	1 10 8
	Sugarcane	5 0 0	3 5 4
	II.—Leases for five years.		
	For all crops	2 0 0	2 0 0
	Note.—An extra rate in addition to the above rate is charged for water taken between the 1st April and the 25th June.		
	For water taken between the 1st April and the 25th June.		
	Annual leases only.		
	Special rate for hot months.		
	For all crops	4 0 0	2 10 8
	Note.—For indigo, water is allowed to be taken under this schedule from the 15th March without extra charge. Charges under this schedule are in addition to charges under the Schedules I and II.		
Sarun canals ...	The Sarun canals are not primarily irrigation canals, and the return to Government is in the shape of a guarantee amounting at present to Rs. 21,850 per annum. Guarantors are authorised to charge Re. 1 per acre irrigated, or in the case of water being used for manufacture, Rs. 2 per maund of indigo manufactured.		

* The rate for flow irrigation was reduced from Rs. 2-8 to Rs. 2 per acre for the current season only—*vide* Bengal Government Notification No. 50, dated 19th February 1889.

List of Officers in charge of Irrigation Circles and Divisions during 1888-89.

Circle or Division.	Name of Officer.	Period of charge.
	SECRETARIAT.	
Joint-Secretary, Irrigation Branch.	Colonel J. M. McNeile, R.E.	On special leave.
Officiating ditto, ditto ...	Lieutenant-Colonel C. W. I. Harrison, R.E.	From 1st April 1888 to 31st March 1889. [Acted as Secretary in the Public Works Department, in addition to his other duties, from 15th April to 1st June 1888.]
Under-Secretary, ditto ...	Major A. D. McArthur, R.E.	From 1st April to 3rd June 1888.
Officiating ditto, ditto ...	Mr. G. A. G. Shawe ...	„ 4th August 1888 to 31st March 1889.

Circle or Division.	Name of Officer.	Period of charge.
SUPERINTENDING ENGINEERS IN CHARGE OF CIRCLES.		
Orissa Circle	Mr. R. H. Rhind ...	From 1st April 1888 to 31st March 1889.
Ditto, Personal Assistant	„ J. T. Boase	„ 26th June 1888 to 31st March 1889.
South-Western Circle ...	„ T. H. Wickes ...	„ 1st April to 3rd June 1888.
	Major A. D. McArthur, R.E.	„ 4th June 1888 to 31st March 1889.
Ditto, Personal Assistant	Mr. J. T. Boase ..	„ 7th to 25th June 1888.
	Rai Sahib Krith Chunder Chowdry.	„ 17th December 1888 to 22nd January 1889.
Sone Circle	Mr C. W. Odling ...	„ 1st April 1888 to 31st March 1889.
Ditto, Personal Assistant	„ K. H. Stephen ...	„ 14th January to 28th February 1889.
EXECUTIVE ENGINEERS IN CHARGE OF DIVISIONS.		
Orissa Circle.		
Mahanuddy Division ...	Mr. G. W. Faulkner ...	From 1st April 1888 to 31st March 1889.
Acquapada-Jajepore Division	„ A. Monies	„ 1st April to 15th July 1888.
	J. P. Cleghorn	„ 16th July 1888 to 31st March 1889.
Pooree Division	Rai Sahib Raj Kissen Banerjee.	„ 1st to 8th April 1888.
	Mr. J. R. Swinden ...	„ 9th April 1888 to 31st March 1889.
Brahmini-Byturni Division ...	„ C. Taylor	„ 1st April to 24th July 1888.
	„ A. Monies	„ 26th July 1888 to 31st March 1889.
South-Western Circle.		
Cossye Division	Mr. J. P. Scotland	From 1st April 1888 to 31st March 1889.
Northern Drainage and Embankment Division.	„ R. E. Carter	„ 1st to 30th April 1888.
	„ T. M. L. Thompson ...	„ 1st May 1888 to 31st March 1889.
Nuddea Rivers Division ...	„ C. E. Livesay	„ 1st April 1888 to 31st March 1889.
Circular and Eastern Canals Division.	„ G. A. G. Shawe	„ 1st April to 3rd August 1888.
	„ C. Taylor	„ 4th August 1888 to 31st March 1889.
Balasore Division	„ A. Hayes	„ 1st April 1888 to 31st March 1889.
Sone Circle.		
Arrah	Mr. W. A. Inglis	From 1st April 1888 to 31st March 1889. (On privilege leave from 10th October 1888 to 10th January 1889.)
	„ K. H. Stephen	From 10th October 1888 to 13th January 1889.
Buxar	„ D. B. Horn	From 1st April 1888 to 31st March 1889.
Eastern Sone	„ M. J. Monckton... ...	„ 1st April to 30th June 1888.
	„ H. F. B. Frost	„ 1st July 1888 to 31st March 1889.
Gunduck	„ M. J. J. P. Norman ...	„ 1st April 1888 to 31st March 1889.
Canal Revenue Officers.		
Deputy Collector, Shahabad...	Baboo Sarada Prasad Chatterjee.	From 1st April 1888 to 31st March 1889.
Sub-Deputy Collector, Shahabad.	Baboo Siva Sunker Sing ...	Ditto ditto. (On privilege leave from 13th to 29th September 1888.)
	„ Jagdam Sahai ...	From 1st April 1888 to 31st March 1889.
Circle Officer, Patna district...	Syud Mahomed Kabeer ...	Ditto ditto.
Ditto, Gya do. ...	Baboo Moti Lall	Ditto ditto.
Deputy Revenue Superintendent, Orissa.	Mr. S. C. Roberts	Ditto ditto.
Ditto, Midnapore ...	Baboo K. C. Ghose	Ditto ditto. (On privilege leave from the 24th January to 31st March 1889.)
	„ Rajendra Nath Roy ...	From 24th January to 31st March 1889.
Collector of Tolls, Calcutta ...	Mr. W. R. Cooksey	„ 1st April 1888 to 31st March 1889.

STATEMENT SHOWING THE ACTUAL RECEIPTS AND EXPENDITURE OF PROVINCIAL SERVICES FOR 1888-89, AND THE REVISED ESTIMATES FOR 1889-90.

Receipts.	Actuals, 1888-89.	Revised estimate, 1889-90.
	Rs.	Rs.
Opening balance .	33,08,091	26,58,000
Principal Heads of Revenue—		
I.—Land Revenue	90,92,398	88,08,000
III.—Salt	88,193	1,18,000
IV.—Stamps	1,03,79,239	1,05,75,000
V.—Excise	27,22,910	25,50,000
VI.—Provincial Rates	41,56,323	42,27,000
VII.—Customs	46,891	50,000
VIII.—Assessed Taxes	19,55,808	20,00,000
IX.—Forests	3,38,454	3,65,000
X.—Registration	5,46,772	5,75,000
Total ..	2,93,26,880	2,91,48,000
XII.—Interest	97,383	1,15,000
Post Office, Telegraph and Mint—		
XIV.—Telegraphs	926	1,000
Receipts by Civil Department—		
XVI.—Law and Justice—		
Courts of Law	7,80,538	7,90,000
Jails	7,75,021	7,45,0 0
XVII.—Police	3,38,197	4,00,000
XVIII.—Marine	9,11,734	8,60,000
XIX.—Education	6,11,884	5,70,000
XX.—Medical	1,38,165	1,36,000
XXI.—Scientific and other Minor Departments.	1,05,154	1,76,000
Total ...	37,27,693	36,83,000
Miscellaneous—		
XXII—Receipts in aid of Superannuation	48,819	46,000
XXIII.—Stationery and Printing	1,75,074	1,60 000
XXV.—Miscellaneous	8,34,785	8,28,000
Total ..	10,58,708	10,34,000
Railways—		
XXVI.—State Railways (gross earnings)		
Eastern Bengal State Railway ...	61,64,804	63,50,000
Other Railways	55,69,065	59,39,000
Total ...	1,17,33,869	1,22,89,000
Irrigation—		
XXIX.—Major Works (direct receipts) ...	13,94,369	14,26,000
XXX.—Minor Works and Navigation—		
By Public Works Department ...	8,67,844	8,39,000
„ Civil Department	1,02,154	1,03,000
Total ...	23,64,367	23,68,000
Buildings and Roads—		
XXXII.—Civil Works—		
By Public Works Department ...	4,74,639	3 50,000
„ Civil Department		3,00,000
Total ...	4,74,639	6,50,000
Contributions	.....	.....
Total ...	4,87,84,465	4,91,88,000
Grand Total ...	5,20,93,456	5,21,46,000

Expenditure.	Actuals, 1888-89.	Revised estimate, 1889-90.
	Rs.	Rs.
Direct demand on the Revenues—		
1. Refunds and drawbacks ...	1,40,150	1,38,000
2. Assignments and Compensations	1,39,300	1,54,000
3. Land Revenue	35,13,059	35,24,000
5. Salt	21,223	89,000
6. Stamps	3,70,334	3,71,000
7. Excise	1,08,601	1,81,000
8. Provincial Rates	3,17,410	3,25,000
9. Customs	5,24,020	5,35,000
10. Assessed Taxes	74,865	81,000
11. Forests	1,87,702	2,25,000
12. Registration	2,99,729	3,15,000
Total ...	58,96,599	58,88,000
13. Interest on ordinary debt ...	45,802	75,000
Post-office, Telegraph and Mint—		
16. Telegraphs	884	1,000
Salaries and expenses of Civil Department—		
18. General Administration ...	15,71,096	15,93,000
19. Law and Justice—		
Courts of Law	81,01,737	81,01,000
Jails	17,95,795	17,60,000
20. Police	48 34,069	51,12,000
21. Marine	10,71,199	11,48,000
22. Education	24,78,209	24,75,000
24. Medical	14,87,730	15,02,000
25. Political	24,402	24,000
26. Scientific and other minor Departments	3,10,050	3,05,000
Total ...	2,16,54,378	2,22,16,000
Miscellaneous—		
29. Superannuation, &c.	13,70,007	14,26,000
30. Stationery and Printing ..	10,21,438	10,13,000
32. Miscellaneous	2,40,632	2,19,000
Total ..	26,32,077	26,58,000
Famine Relief and Insurance—		
33. Famine relief	54,338	3,75,000
37. Construction of railways ...	—10,893	—2,000
Railways (Revenue account)—		
38. State Railways—		
Working expenses { Eastern Bengal State Railway ..	31,64,804	33,50,000
Working expenses { Other Railways ...	27,84,203	27,81,000
Interest on debt ..	32,81,383	34,45,000
40. Subsidised Companies—Land, &c.	—366	1,000
41. Miscellaneous Railway expenditure	1,42,693	92,000
Total ...	93,52,716	96,69,000
Irrigation—		
42. Major Works—		
Working expenses	14,18,060	14,36,000
Interest on debt	23,39,849	23,63,000
43. Minor Works and Navigation—		
By Public Works Department	14,75,746	18,18,000
„ Civil Department ...	1,911	2,000
Total ...	52,37,566	56,24,000
Buildings and Roads—		
45. Civil Works—		
By Public Works Department	39,04,303	30,10,000
„ Civil Department ...	1,19,658	60,000
Total ...	40,23,961	30,70,000
Contributions	7,50,184	7,45,000
Total ...	4,94,35,522	5,03,21,000
Closing balance	26,57,934	18,25,000
Grand Total ...	5,20,93,456	5,21,46,000

Published for general information.

Financial Dept.,
Finance;
The 30th January 1890.

H. J. S. Cotton,
Offg. Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 1st February, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Dtvn. 1	Burdwan Feb. 1, '90	0·06	Weather—cold. Outturn of *amun* 10 annas. *Rubbi* not favourable. Sugarcane and potato fair. Prices of common rice :— Srs. Burdwan ... ... 16½ Culna ... . 16 Cutwa ... ... 15½ Raneegunge ... ... 20 } per rupee.
2	Bankoora „ 1, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops continue good. Coarse rice 20 seers per rupee at Sudder and 18 seers at Bissenpore.
3	Birbhum „ 1, '90	Nil	Weather—very cold. Prospects of cold-weather crops, especially sugarcane very good. Prices of rice 16½ seers per rupee at Sudder and 16 seers at Rampore Haut.
4	Midnapur „ 1, '90	Nil	Weather—seasonable. General prospects fair. Harvesting of rice going on in Contai. Indigo and *rubbi* doing well. Prospects of silk cocoons improved. Prices of rice :— Srs. Sudder ... ... 16 Contai ... ... 26 (new) Tamluk .. .. 18 Ghatal ... ... 19 } per rupee.
5	Hooghly „ 1, '90	Nil	Weather—cold. Harvesting of paddy over. Outturn of *rubbi* very hopeful. Prices of common rice :— Srs. Sudder and Serampore ... ... 12½ Jehanabad ... ... 17¼ } per rupee.
	Serampore ...	0·36	
	Jehanabad ...	0·45	
	Howrah „ 1, '90	Nil	Weather—cold. Prospects of crops good. Common rice sold at Howrah at 12½ seers per rupee during the week.
	Central Districts.		
Presidency Dtvn. 6	24-Pergns. Feb. 1, '90	Nil	Weather—cool. Prospects good. Yield of *amun* has averaged 16 annas. *Rubbi* crops doing well. Price of ordinary rice 16 seers per rupee.
7	Nuddea „ 1, '90	Nil	Weather—cold. *Moong*, *kalai*, mustard, and sugarcane harvested with fair out turn. Other winter crops doing well.
	Ranaghat ...	0·30	
	Khoolna „ 1, '90	Nil	
8	Bagirhat ...	0·98	Weather—seasonable *Amun* harvest nearly completed ; outturn good. Prospects of *boro* and *rubbi* crops satisfactory.
	Satkhira ...	2·03	
9	Jessore „ 1, '90	Nil	Weather—very cold. The rainfall of the week will be beneficial to the spring crops. Mustard being gathered. Price of rice stationary.
	Magura ...	0·17	
	Narail ...	2·51	
	Bongong ...	1·63	
10	Moorshedabad „ 1, '90	Nil	Weather—bright and cold. Wind N.-W. All the *rubbi* crops on the ground are doing well. *Haimanti dhan* nearly all harvested.
Rajshahye Dtvn. 11	Dinagepur „ 1, '90	Nil	Weather—getting cooler. Outturn of *amun* is estimated at 16 annas. Prospect of mustard not favourable. Pressing of sugarcane continues.
	Thakurgaon ...	0·34	
12	Rajshahye „ 1, '90	Nil	Weather—cold with fresh breeze. Condition of spring crops good. Harvesting of *amun* nearly over with good outturn. Sugarcane being reaped all over the district. Ganja and tobacco at Nowgong in good condition. Common rice sells at 16 seers 9 chittacks per rupee.
13	Rungpur „ 1, '90	Nil	Weather—seasonable. *Amun* rice is estimated to have yielded a 15-anna crop. Tobacco is flourishing. Sugarcane is being cut and crushed, and mustard gathered with a fair outturn.
	Kurigram ...	0·65	
	Nilphamari ...	0·80	
14	Bogra „ 1, '90	Nil	Weather—very cold ; days somewhat cloudy. Reaping of *amun* almost finished ; probably not more than one anna remaining to be cut. Other crops also being gathered. Common rice is being sold at head-quarters at 21 seers per rupee.
	Sherpur ...	0·01	
	Nowkhilla ...	0·34	
15	Pubna „ 1, '90	Nil	Weather—fine and cool. *Amun* outturn estimated at 13 annas. Mustard and tobacco expected to yield 12 annas. Sugarcane will not be above 8 annas. Prices slightly lower.
16	Darjeeling „ 1, '90	Nil	Weather—very cold and bright. Crops doing well and prospects generally good.
17	Jalpigoree „ 1, '90	Nil	Weather—cold. Cutting of *haimanti* paddy completed ; 14 annas outturn obtained. Winter crops doing well. Some damage to tobacco reported from Falacutta owing to recent hailstorm. Prices stationary.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts.		
Dacca Divn.	18	Dacca Feb. 1, '90	2·54	Weather—very cold. Heavy rain in the Sudder subdivision. Sowing of *boro* paddy nearly completed. Mustard and pulses being gathered. Rain has done good to the standing crops. Fodder is available. No special change in the prices of food-grains. Common rice sold at from 13 to 16 seers per rupee.
	19	Furreedpur „ 1, '90	Nil	Weather—colder and clearer. Produce of date trees below average owing to floods of rainy season. *Boro* rice being sown on churs. Sugarcane being cut. Prospects of cold-weather crops on the ground fair. Tillage for early rice and jute progressing.
	20	Backergunge „ 1, '90	Nil	Weater—cool with foggy mornings. Prospects of crops good. Harvesting of *amun* nearly completed; outturn estimated at 16 annas. Common new rice selling at 16 seers per rupee.
	21	Mymensingh „ 1, '90	0·22	Weather—very cold. Prospects of crops good. Common rice sells at 14 seers per rupee. Transplantation of *boro dhan* continues.
Chittagong Divn.	22	Chittagong „ 1, '90	Nil	Weather seasonable. State of miscellaneous crops good.
	23	Noakholly „ 1, '90	0·02	Weather—seasonable. State of *rubbi* crops good. Rain has done good to them. Price of rice stationary.
	24	Tipperah „ 1, '90	0·35	Weather—seasonable. Winter crops doing well. Transplantation of *boro dhan* still going on.
	25	Chittagong Hill Tracts. Jan. 31, '90	Nil	Weather—very cold and foggy up to 10 A.M. in the morning. Wind steady from N. Gathering of mustard commenced. Tobacco and chillies progressing.
		Hill Tipperah Feb. 1, '90	Nil	Weather—cold. Chillies and tobacco doing well. *Jum*-cutting commenced in the hills.
BEHAR.				
Patna Divn.	26	Patna „ 1, '90	Nil	Weather—cold. Prospects of *rubbi* continue good. A shower of rain would, however, much benefit the crops Peas and mustard are in pods. Wheat in ear in some places. Poppy is flowering and looks well. Prices of food-grains almost stationary.
	27	Gya „ 1, '90	Nil	Weather—cold. Harvesting of paddy nearly finished. Prospects of *rubbi* and poppy favourable. Food-stocks sufficient.
	28	Shahabad „ 1, '90	Nil	Weather—very cold and bright all the week, but milder and rather cloudy to-day (1st). Cutting of peas commenced. Other *rubbi* crops and poppy doing well. Sugarcane being pressed. Prices stationary.
	29	Durbhunga „ 1, '90	Nil	Weather—very cold with west wind. The late rain has greatly benefited the *rubbi* crops. Mustard is being harvested in places Prospects of poppy continue good. Common rice selling at 19 seers per rupee.
	30	Muzafferpur „ 1, '90	0·06	Weather—seasonable. All standing crops doing very well. Mustard being cut. Prospects of poppy good, except the late sowings in Hajipur.
		Hajipur ...	0·05	
		Sitamarhi ...	0·39	
	31	Sarun „ 1, '90	Nil	Weather—clear and cold; very seasonable with west winds. *Rubbi* prospects excellent. Poppy rather backward, but fair. Sugarcane pressing going on.
	32	Chumparun „ 1, '90	Nil	Weather—cold, with passing clouds. Rainfall of the past week has been decidedly beneficial to all crops, and has caused no damage to wheat according to latest reports. Early poppy plants coming into flower. Prices stationary.
	33	Monghyr „ 1, '90	Nil	Weather—cool and cloudy at times. *Rabbi* crops doing well, but want rain, especially in the Begusarai subdivision, where the standing crops on high lands do not look very promising, and mustard has been damaged by *lahi* insects. Poppy flowering.
Bhagulpore Divn.	34	Bhagulpur „ 1, '90	Nil	Weather—cool with west winds. Prospects of crops promising, but rain wanted for wheat. Mustard harvested; yield about 12 annas. Linseed flowering and weather favourable.
	35	Purneah „ 1, '90	Nil	Weather—cold. Mustard still being harvested with good outturn. Tobacco and other *rubbi* crops have benefited, especially in Kissengunge, from recent rain. Tobacco a good crop. Ploughing going on.
		Kissengunge (on 24th Jan.)	1·30	
		Arrareah (ditto)	0·14	
	36	Maldah Feb. 1, '90	Nil	Weather—somewhat cooler. Gathering of *kalai* and mustard continues; in thana Kharba it is just over. Other *rubbi* crops (wheat, barley, gram, &c.) doing well, but require rain. Transplantation of *boro* paddy going on. Common rice selling at an average of 17 seers per rupee
	37	Sonthal Perghs. „ 1, '90	Nil	Weather—very cold and dry; warm in the day time. *Rubbi* crops doing well. Mustard is a short crop in Pakour, estimated at 8 annas. Mangoes are in blossom.

	No.	District and date of return.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Feb. 1, '90	Nil	Weather—seasonable. Estimated outturn of *guru sarad* is as follows :— Jajpore . ... . 17 annas Kendrapara ... ... 12 „ Sudder ... ... 13 „ On the whole a 14-anna crop has been reaped over the whole district.
	39	Pooree ...	...	Report not received.
	40	Balasore „ 1, '90	Nil	Weather—unusually cold. Outturn of *guru* rice estimated at 14 annas in the Bhuddruck subdivision and 11 annas in the Sudder subdivision Outturn of *rabi* crops averages generally about 12 annas.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Feb. 1, '90	Nil	Weather—seasonable. Crops in good condition everywhere
	42	Lohardugga „ 1, '90	Nil	Weather—seasonable; mornings very chilly. Prospects of *rabi* crops good at head-quarters. In Palamow they are somewhat affected by want of rain.
	43	Singbhoom „ 1, '90	Nil	Weather—seasonable. Prospects of winter crops favourable. Prices stationary.
	44	Manbhoom „ 1, '90	0·06	Weather—cold. Mustard fully harvested, with 16 annas outturn. Sugarcane being pressed; outturn about 10 to 12 annas. *Rabi* crops doing well; probable outturn 14 annas. Price of rice falling.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 4th February, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 26th January to 1st February 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Jan	26th	129·5	9·6	29·931	63·9	71·6	16·4	55·2	57·2	0·384	51·6	66	NNW and NNE ...	75	Nil	Clear, D.
,,	27th	130·4	9·3	·932	60·5	71·3	20·9	50·4	52·9	·304	45·4	60	N by E, WNW and calm	47	,,	Clear, D.
,,	28th	131·7	9·6	·976	60·1	73·4	25·8	47·6	52·9	·308	45·7	63	NNW and calm ...	42	,,	Chiefly clear, D.
,,	29th	132·3	9·4	30·041	61·9	73·3	22·9	50·4	52·7	·277	42·9	53	NNE and NNW ...	119	,,	Clear, D.
,,	30th	131·0	9·5	·011	63·8	75·8	23·2	52·6	55·9	·346	48·8	60	N and NNE ...	81	,,	Cl ar.
,,	31st	130·2	9·6	·042	64·2	76·2	22·7	53·5	57·0	·370	50·6	69	NNE and N ..	6	,,	Clear, D.
Feb	1st	132·6	9·4	·068	64·1	76·7	24·7	52·0	55·9	·338	48·2	60	NNE and N by W .	53	,,	Clear, D.

	Inches.
The mean pressure of the seven days	30·000
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·994
	Hours.
The total number of hours of bright sunshine	66·4
The maximum possible number of hours of sunshine	77·4
	°
The mean temperature of the seven days	62·6
The average temperature of the corresponding period for 24 years, S.-G.'s Office	68·8
The extreme variation of temperature	29·1
The maximum temperature	76·7
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	62
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 26th January to 1st February 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·26
The total fall from 1st January to 1st February 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·45

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

D. dew.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 3rd February 1890.

Meteorological Report of the Province of Benga

Meteorological Division.	District.	Representative station.	Station Observations. Air Pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A. M., temperature.
Orissa.	Pooree	Pooree ...	30·002	30·015	—	N	264	84·7	25th Jan.	53·0	28th, 30th Jan.	80·8	66·9	68·9	—	61·9
		Gopalpore .	29·992	30·019	+·010	NNW	305	84·2	26th ,,	55·0	31st ,,	79·8	60·7	70 3	—1·6	66·0
		False Point ...	30·006	30·028	—·043	NW	202	83·9	25th ,,	50 0	27th, 28th Jan.	76 6	54·1	65·4	—4·7	59·2
	Cuttack	Cuttack ...	29·959	30 045	—·009	NW	81	88 4	25th ,,	50·9	28th, 30th Jan.	82·2	55·5	68 8	—4·3	59 8
	Balasore	Balasore ...	29·987	30 049	—·016	NNW	124·7*	86·4	25th ,,	46·9	28th ,,	79·2	51·7	65·5	—3·0	57·3*
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Sangor Island	30·003	30 030	—·024	N & NNE	285	81·7	25th ,,	51·7	28th, 29th Jan.	75·1	56·7	65 9	—3·4	60 7
	Midnapore	Midnapore ..	29 883	30·043	—·035	N	33·3	87·3	25th ,,	46·1	28th ,,	79·4	51·3	65·4	—2·3	58·3
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta	30·008	30 031	—·015	Northerly	89 0	81 5	25th ,,	47·8	28th ,,	74·7	53·2	64·0	—3·3	58·1
	Burdwan	Burdwan	29 931	30 038	— 032	North-westerly.	56·1	85·0	25th to 28th Jan.	46·7	28th ,,	81·3	51·8	66·6	—0·7	57 1
	Bankoora	Bankoora ..	29·701	30·026	—·034	Westerly	05	86·0	25th ,,	46·2	27th ,,	77·3	50·8	64 1	—2·7	55·2
	Beerbhoom ... ... / West Burdwan	Kaneegunge	29·701	30·056	—·019	NW	84·9	85·5	25th ,,	46·7	29th ,,	76·1	50·5	64·4	—2·8	56 2
	Moorshedabad	Berhampore...	29·955	30·027	— 038	NW	65·2	81·6	25th ,,	47·1	28th ,,	75·7	50·6	63·1	—2·5	53·9
	Nuddea	Krishnaghur...	29·984	30·054	—·007	WNW	92·5	84·5	25th ,,	43·8	27th, 29th Jan.	77·2	49·3	63·2	—2·0	56·5
	Jessore ... ... / Khoolna	Jessore .	29·982	30 018	—·038	NNW	48·8	81·2	25th ,,	48·4	29th ,,	76 0	54·0	65·0	—1·4	56·5
East Bengal.	Chittagong	Chittagong	29·905	30·000	—·060	Calm	48·8	80·6	28th ,,	50·2	28th ,,	76·9	55·3	66 1	—0·8	60·3
	Chittagong Hill Tracts	Demagiri .						Observations not received.								
	Backergunge	Barrisal ..	29·992	30·005	—·036	North-westerly.	55·0	79·3	25th Jan.	48·1	28th ,,	74·4	53 9	64·2	—0 7	60 9
	Noakholly	Noakholly ..	29·934	30·000	—	N	89·8	79·0	26th, 31st Jan.	46·0	29th ,,	77·3	51·3	64·3	—	59·9
	Furreedpore	Furreedpore...	29 978	30·020	—·025	N	57·0	73 5	31st ,,	40·0	28th, 29th Jan.	72·2	53·4	62·8	—1·5	57·5
	Dacca	Dacca .	29 970	29 994	—·057	NNW	66 8	80·6	25th ,,	48·2	28th ,,	76·0	53 1	64 6	—2·3	58·8
	Tipperah	Commillah	29·870	30 007	—·035	NE	31·0	78·9	25th ,,	43·1	28th, 30th Jan.	75·6†	52·7	64·2†	—1·0	58·7
	Mymensingh	Mymensingh	29·947	30·009	—·037	Variable	42 8	77·4	31st ,,	48·8	30th ,,	73·5*	51·7	63·0*	—0·7	55·9
North Bengal.	Bogra	Bogra	29·922	29·990	—·035	North-westerly.	43·4	77·5	31st ,,	43·5	28th ,,	73·4	50·3	61·9	—3·5	54·6
	Pubna	Serajgunge ..	29·953	30·002	—·045	SW	31·2	79·0	25th ,,	45·0	28th ,,	75·0	50·0†	62·2†	—1·4	55·5
	Rajshahye	Rampore Beauleah.	29 946	30·020	—·017	N	117·3	79·1	25th ,,	44·9	27th ,,	74·8	49·6	62·2	—0·6	55 0
	Maldah	Maldah ...	29·943	30·030	—	NW	85·4	76·7	31st ,,	42·9	27th, 28th Jan.	74·4	47·1	60·7	—	56·4
	Dinagepore	Dinagepore	29 897	30·027	—·035	SW	54·0	77·1	31st ,,	43·9	28th ,,	73·2	47·4	60 3	—2·6	53·4
	Rungpore	Rungpore	29·896	30 031	—·007	ENE	21·0	77 6	31st ,,	41·2	27th ,,	72·7	47·3	60·0	—1·4	53·2
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	2· ·713	30 021	—·017	Northerly	89·5	?	?	44·0	28th ,	?	46·9	?	?	53·0
	Darjeeling Hill Tracts ...	Darjeeling	22·894	—	—	WSW	144·7	53·3	25th to 31st Jan.	29·1	28th ,,	53·3	33·7	43·0	+4·0	30·2
Purnea Bihar.	Purneah .. ... / North Bhagulpore ...	Purneah ..	29·900	30·037	—·026	Calm & westerly.	58·5	76·4	27th ,,	40·5	28th ,,	72·7	44·4	58·5	—2·7	49·8
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga	29·887	30·047	—·029	W	82	75·4	25th, 31st Jan.	45·8	27th ,,	73·2	49·0	61·1	—1·2	54·0
	Chumparun ...	Motihari ..	29·796	30·012	—·014	Variable	126·0	75·7	25th ,,	41·0	28th ,,	72·1	45·5	58·7	—1·1	51·8
	Sarun ...	Chupra ..														
South Behar.	Shahabad	Dehree ..	29·698	30·061	—·002	SSW	179 4	77·8	25th ,,	44·0	28th ,,	74·4	48·1	61·3	—0·4	52·6
		Buxar ..	29·808	30·071	—·001	W	118 6	78 9	25th ,,	41·9	28th ,,	74·1	45·5	59·8	—2·2	52·2
		Arrah ..	29 840	30·052	—·002	WSW	91·1	78·5	25th ,,	41·9	29th ,,	73 7	44·9	59·3	—1·6	50·6
	Gya ..	Gya ..	29 864	30·069	—·025	W & S	146·3	76·1	25th ,,	47·9	29th ,,	73·9	51·0	62·5	—2·0	56 3
	Patna . .	Bankipore .	29 858	30·050	—·038	W	67·4	76·7	25th ,,	43·3	29th ,,	72·9	47·0	59·9	—1·7	54·0
	South Bhagulpore / Monghyr ..	Bhagulpore ...	29·856	30·030	—·027	Calm	24	76·3	31st ,,	39·2	28th ,,	73·9	46·9	60·4	—1·9	53·7
	Sonthal Pergunnah ...	Doomka ..	29·807	30·043	—	NW	71·4	80·3	25th ,,	42·4	29th ,,	75·0	47·4	61·2	—	53·7
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·954	30 077	—·031	North-westerly.	203·4	76·4	25th ,,	42·9	27th ,,	70 9	46·4	58 6	—3·0	52·8
	Lohardugga ... ... / Manbhoom	Ranchee ..	27 825	30 036	—·029	Calm	122·7	77·3	25th ,,	37·9	27th ,,	70·8	44·8	57·7	—4·3	54·8
	Singbhoom	Chyebassa ..	28·261	30·067	—	South-westerly.	39·1	85·0	25th ,,	44·0	28th ,,	78·3	48·1	63·2	—	58·0†

* Means of six days. † Means of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 31st of January 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15 h May 1889. Mean for district.	Since 15 h May 1889. Normal mean.	Since 15 h May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
73	1·3	0·10	0·00	0·17	0·16	0·31	−0·25	74·94	55·48	+19·46	0·5	0·4	Pooree ...	Pooree	Orissa.
68	0·1	Nil											Gopalpore ...		
79	1·7	0·13											False Point ...		
65	1·2	Nil	0·15	0·20	0·15	0·36	−0·21	66·39	51·91	+14·48	0·4	0·4	Cuttack ...	Cuttack	
67*	0	Nil	0·07	0·25	0·07	0·44	−0·37	49·96	53·04	−3·08	0·2	0·4	Balasore ..	Balasore	
81	1·3	Nil	0·14	0·20	0·14	0·43	−0·29	58·57	62·44	−3·87	0·7	0·4	Saugor Island ...	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
80	0·3	Nil	0·10	0·18	0·10	0·49	−0·39	46·39	51 56	−5·17	0·7	0·5	Midnapore ..	Midnapore	
75	0·9	0·77	0·72	0·18	0·72	0 50	+0·22	54·10	51·68	+2·42	1·0	0·5	Calcutta ...	24-Pergunnahs	
														Howrah	
														Hooghly	
58	0·3	0·06	0·02	0·17	0·06	0 38	−0 32	43·89	46·69	−2·80	0·3	0·5	Burdwan ...	Burdwan	
63	0	0·06	0·02	0·20	0 05	0·40	−0·35	55·91	52·69	+3·24	0·2	0·4	Bankoora ...	Bankoora	
58	0	0·02	0·01	0·12	0·02	0·44	−0·42	52 46	51·62	+0 84	0·2	0·4	Raneegunge ...	Beerbhoom	
														West Burdwan ...	
84	0	Nil	Nil	0·07	0·02	0·44	−0·42	51·17	50·46	+0·71	0·0	0·4	Berhampore	Moorshedabad .	
76	1·4	Nil	0·06	0·14	0·12	0·34	−0·22	51 61	49 23	+2·38	0·2	0·4	Krishnaghur ...	Nuddea	
90	1·6	1·55	1·21	0·18	1·36	0·50	+0·86	54·75	53 17	+1·58	1·0	0·5	Jessore ...	Jessore	
														Khoolna	
83	1·3	0·76	0·33	0·23	0·33	0·69	−0·36	100 35	113·71	−13·36	0·5	0·5	Chittagong ..	Chittagong	East Bengal.
			Nil	0 23	0·04	0 65	−0·61	65·17	81·28	−16·11	0·0	0·5	Demagiri ...	Chittagong Hill Tracts	
84	1·1	3 01	0·35	0·22	0·49	0·67	−0·18	78·31	76·99	+1·32	0·8	0·5	Barrisal ...	Backergunge	
85	0·4	0·15	0·17	0·16	0·53	0 72	−0·19	90·82	106 5o	−15 73	1·5	0·6	Noakholly	Noakholly	
90	1·4	0·21	0·45	0·17	1·90	0 42	+1 80	62·22	55·83	+6·39	0·7	0·5	Furreedpore ...	Furreedpore	
79	1·3	1·10	0·93	0·18	1·37	0·41	+0·96	75·96	59 64	+16·32	1·0	0·5	Dacca ..	Dacca	
86	1·0	0·39	0·58	0·22	1·17	0·67	+0·50	50·62	63 49	−12·87	1·0	0·6	Commillah .	Tipperah	
89	1·9	0·24	0·64	0·11	1 15	0·38	+0·77	88·78	67·59	+21 19	1 0	0·4	Mymensingh ..	Mymensingh	
81	0	0·03	0·39	0 09	0·81	0·36	+0 45	65·62	57·29	+8·33	1·0	0·3	Bogra ...	Bogra	North Bengal.
86	1·4	0 17	0·09	0·13	0·30	0·41	−0 11	55·37	53 33	+2·04	0·5	0 4	Serajgunge ..	Pubna	
76	0·1	Nil	Nil	0·18	0 05	0·60	−0·55	54·35	53·02	+0 43	0·0	0 4	Rampore Beauleah	Rajshahye	
73	0	Nil	Nil	0·12	Nil	0·48	−0 48	39·76	54 21	−14 47	0·0	0·5	Maldah ..	Maldah	
82	0·3	0·69	0·12	0·27	0·12	0·56	−0·44	57·49	57 16	+0·33	0·4	0·4	Dinagepore ...	Dinagepore	
86	0	0·19	0·21	0·19	0·71	0·50	+0 21	85 87	74 23	+11·65	0·5	0·5	Rungpore ...	Rungpore	
90†	0	Nil	0·04	0·30	0·60	0·54	+0·06	117·73	111·74	+5·99	0·4	0·5	Julpigoree ..	Julpigoree	
														Cooch Behar	
78	5·3	0·70	0·19	0·40	0·71	0·99	−0·28	133·46	121·27	+12 19	1·0	1·0	Darjeeling ..	Darjeeling Hill Tracts	
85	0	0·02	Nil	0·15	0·29	0·49	−0·20	75·00	58·63	+16·37	0·0	0·4	Purneah ...	Purneah	North Bengal.
														North Bhagulpore ...	
			0·06	0·25	0·17	0·67	−0·50	48·83	43 28	+5·55	1·0	0·4	Mozufferpore ...	Mozufferpore	
73	1·4	0·23	0·13	0·23	0·27	0·64	−0·37	52·11	44 68	+7 43	1·0	0·4	Durbhunga ...	Durbhunga	
81	0	0 45	0·03	0·28	0·41	0·68	−0·27	63·96	46·81	+17 15	0 5	0·5	Motiharí .	Chumparun	
			Nil	0·36	Nil	0·76	−0 76	40·13	42·97	−2 84	0 0	0 5	Chupra ...	Sarun	
66	0	Nil											Dehree ...		South Behar.
59	0·7	Nil	Nil	0·13	Nil	0·67	−0·67	40·07	40·27	−0·20	0·0	0·5	Buxar ...	Shahabad	
64	0·9	Nil											Arrah ..		
83	0	Nil	Nil	0 22	Nil	0·69	−0·69	37·07	41 58	−4·51	0·0	0·5	Gya ...	Gya	
59	0·9	Nil	Nil	0·18	Nil	0·58	−0·58	43·49	41 36	+2·13	0·0	0·5	Bankipore ...	Patna	
68	0	Nil	Nil	0·19	Nil	0·56	− 0 56	42·43	43·64	−1·21	0·0	0·5	Bhagulpore ...	South Bhagulpore ...	
														Monghyr	
63	0	Nil	Nil	0 07	Nil	0·37	−0·37	54·15	50·71	+3·44	0·0	0·4	Doomka ...	Southal Pergunnahs ...	
46	0	Nil	Nil	0·18	Nil	0·63	−0·63	43 03	50·74	−7·71	0·0	0·4	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
48	0	0·01	Nil	0 20	Nil	0·80	−0·80	44·54	49·14	−4·10	0·0	0·4	Ranchi ...	Lohardugga	
			0·03	0·17	0·03	0·49	−0·46	38 36	46 94	−8·58	0·5	0·4		Manbhoom	
50	0·6	Nil	Nil	0·28	Nil	0·72	− 0·72	48·76	51 50	−2·74	0·0	0·6	Chyebassa ...	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

decoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of January 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 25th January.	Sunday, 26th January.	Monday, 27th January.	Tuesday, 28th January.	Wednesday, 29th January.	Thursday, 30th January.	Friday, 31st January.	Total number of rainy days.	Total rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1889.	Average rainfall from 16th May to date.
Orissa ...	Pooree ...	Pooree ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·08	0·24	80 71	51·32
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 26	76·57	56 50
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	65·50	40 01
		False Point ...	0·15	.....	.....	.....	.....	.....	.....	1	0·15	0·20	0·63	77 00	65·98
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Cuttack ...	Jagatsingpore	0·53	.....	.....	.....	.....	.....	.....	1	0 53	0·53	0·35	74·49	47·06
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	52·43	40·50
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 33	75·18	56 35
		Kendrapara ...	0·21	.....	.....	.....	.....	.....	.....	1	0·21	0·21	0·44	72 24	53·32
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	57·64	53·45
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·47	?
	Balasore ...	Chandbali ...	0·40	.....	.....	.....	.....	.....	.....	1	0·40	0·40	0·51	55·04	52·47
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	57 66	51·70
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	46·05	51·12
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	46·61	57·96
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	39·59	53 92
		Raripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	54 79	53·77
South-West Bengal.	Midnapore ...	Contai ...	0 05	.....	.....	.....	.....	.....	.....	1	0·05	0·05	0·29	55·18	61·27
		Saugor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	56·74	67·09
		Tumlook ...	0·20	.....	.....	.....	.....	.....	.....	1	0·20	0 20	0·29	49·60	51·20
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 59	46·26	48 91
		Ghattal ...	0·11	.....	.....	.....	.....	.....	.....	1	0·11	0·11	0·50	45 30	54·56
		Kukrahaty ...	0·19	.....	.....	.....	.....	.....	.....	1	0·19	0 19	?	59·54	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·73	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46 29	?
	24-Pergunnahs	Diamond Harbour ...	0·38	.....	.....	.....	.....	.....	.....	1	0·38	0·38	0·65	53·79	58·54
		Canning Town	0·05	.....	.....	.....	.....	.....	.....	1	0·05	0·05	?	57·83	?
		Alipore Jail ..	1·07	.....	.....	.....	.....	.....	.....	1	1·07	1 07	0·58	52·87	55·35
		Barrackpore...	0·33	.....	.....	.....	.....	.....	.....	1	0·33	0 33	0·48	52 13	49·36
		Dum-Dum ...	0·55	.....	.....	.....	.....	.....	.....	1	0·55	0·55	0·58	65·43	51·70
		Baraset ...	1·10	.....	.....	.....	.....	.....	.....	1	1·10	1·10	0·61	58·71	49·97
		Bussirhat ...	1·49	.....	.....	.....	.....	.....	.....	1	1·49	1·49	0 43	63 41	54·55
	Howrah ...	Howrah ...	0·52	.....	.....	.....	.....	.....	.....	1	0·52	0·52	0·58	59·64	51·91
		Mohesreka ... (*Goloberiah.*)	0·40	.....	.....	.....	.....	.....	.....	1	0·40	0·40	0 50	55·04	52·90
	Hooghly ...	Serampore ...	0·36	.....	.....	.....	.....	.....	.....	1	0·36	0·36	0·43	55·61	50·13
		Hooghly ...	0·61	.....	.....	.....	.....	.....	.....	1	0·61	0 61	0 38	57 53	48·17
		Jehanabad ...	0·45	.....	.....	.....	.....	.....	.....	1	0·45	0·45	0 39	41 61	55·05
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	41·22	44·25
		Burdwan ...	0·06	.....	.....	.....	.....	.....	.....	1	0·06	0·18	0·30	47·25	47·23
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 44	48·11	47·79
		Raneegunge ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	0·07	0 35	55 90	49·02
		Manbur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·09	?	53·80	?
	Sankoora ...	Sankoora ...	0·07	.....	.....	.....	.....	.....	.....	1	0·07	0·07	0·34	50·96	51·49
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 38	57·49	51·98
		Malara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·35		51·93
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	65·91	54·21
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48 40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40 44	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·17	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Vonamukhi ...	0·11	.....	.....	.....	.....	.....	.....	1	0·11	0·11	?	54·44	?
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	59·06	58·71
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	47·07	54·30
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	47·78	51·34
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	?	55·04	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·19	?
	Nuddea ...	Ranaghat ...	0·30	.....	.....	.....	.....	.....	.....	1	0·30	0·30	0·45	56·10	47·06
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	42·95	46 04
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0 30	49·86	50·99
		Moherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·29	53·15	47·48
		Kooshtea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	0·34	56·06	54·41
	Khoolna ...	Satkhira ...	2·03	.....	.....	.....	.....	.....	.....	1	2·03	2·03	0·40	54·54	55·16
		Bagirhat ...	0·98	.....	.....	.....	.....	.....	.....	1	0 98	1·48	0·69	55 48	61·50
		Khoolna ...	0·79	.....	.....	.....	.....	.....	.....	1	0·79	1·04	0 63	56·82	54·82
		Nakipur ...											?	?	?
		Rampal ...	0·37	.....	.....	.....	.....	.....	.....	1	0·37	0·37	?	?	?
	Jessore ...	Narail ...	2·51	.....	.....	.....	.....	.....	.....	1	2 51	2·54	0·69	51·01	45·97
		Jessore ...	1·55	.....	.....	.....	.....	.....	.....	1	1·55	1·55	0·60	63·90	54·35
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·18	0 36	50·74	53·36
		Magoorah ...	0·17	.....	.....	.....	.....	.....	.....	1	0·17	0·43	0 29	56·90	49·17
		Bongong ...	1·63	.....	.....	.....	.....	.....	.....	1	1·63	1·63	0·34	47·64	51·76
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	55·38	51·08
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·13	0·53	46·28	51·30
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	47·13	50·75
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	?	51·39
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 45	55·01	49·13
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	59·02	50·94
		Jugunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	?	43·29	?
		Akhrigunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·25	?	43·06	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	?	?	?
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 77	123·39	135·61
		Chittagong ...	.....	0·66	.....	.....	.....	.....	.....	1	0·66	0·66	0·63	77·08	94·43
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63 66	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·60	63 12	53·74
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	67·20	60·51
	Backergunge ...	Patuakhally ...	0·46	.....	.....	.....	.....	.....	.....	1	0·46	0·46	0·67	87·66	87·79
		Perozepore ...	0·43	.....	.....	.....	.....	.....	.....	1	0 43	0·43	0·69	73·64	70·03
		Burrisal ...	0 50	.....	.....	.....	.....	.....	.....	1	0 50	0·50	0·78	73·21	67·75
		Bhola ...	0·41	.....	.....	.....	.....	.....	.....	1	0·41	0·13	4·56	79·68	83·01

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of January 1890—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 25th January 1890.	Sunday, 26th January.	Monday, 27th January.	Tuesday, 28th January.	Wednesday, 29th January.	Thursday, 30th January.	Friday, 31st January.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL—concld.		*Gournaddi*	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·31	?
		Bauphal	0·23	......	......	......	......	......	......	1	0·23	0·23	?	93·12	?
	Noakholly	Noakholly	0·12	0·02	......	......	......	......	......	2	0·14	0·41	0·61	102·58	107·80
		Fenny	0·20	......	......	......	......	......	......	1	0·20	0·65	0·81	79·03	100·72
		Harishpore	0·36	......	......	......	......	......	......	1	0·36	0·36	?	81·33	?
		Ramganj	......	......	......	......	......	......	......	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore	1·13	......	......	......	......	......	......	1	1·13	2·12	0·61	62·98	55·55
		Furreedpore	......	......	......	......	......	......	......	Nil	Nil	1·80	0·34	65·60	56·26
		Goalundo	0·21	......	......	......	......	......	......	1	0·21	1·76	0·38	58·05	52·94
	Dacca	Munshigunge	0·58	......	......	......	......	......	......	1	0·58	1·18	0·52	77·51	70·08
		Dacca	2·54	......	......	......	......	......	......	1	2·54	2·76	0·34	76·45	58·38
		Naraingunge	0·34	......	......	......	......	......	......	1	0·34	0·78	0·33	81·14	59·78
		Manickgunge	1·17	......	......	......	......	......	......	1	1·17	1·68	0·43	69·67	50·00
		Joydebpore	0·78	......	......	......	......	......	......	1	0·78	1·94	?	68·55	?
	Hill Tipperah	Agartola	0·12	......	......	......	......	......	......	1	0·12	0·30	0·64	44·38	61·55
	Tipperah	Comilla	0·35	......	......	......	......	......	......	1	0·35	0·80	0·68	62·97	76·11
		Chandpore	0·60	......	......	......	......	......	......	1	0·60	1·15	0·54	65·97	75·79
		Brahmunberia	1·25	......	......	......	......	......	......	1	1·25	2·44	0·79	53·12	61·71
		Ramchandrapore	0·39	......	......	......	......	......	......	1	0·39	0·68	?	60·82	?
		Nasirnagar	1·50	......	......	......	......	......	......	1	1·50	1·80	?	32·39	?
		Daudkandi	0·72	......	......	......	......	......	......	1	0·72	1·44	?	53·73	?
		Kasba	......	......	......	......	......	......	......	Nil	Nil	Nil	?	62·44	?
		Laksham	0·09	......	......	......	......	......	......	1	0·09	0·39	?	69·48	?
	Mymensingh	Kishoregunge	1·24	......	......	......	......	......	......	1	1·24	1·24	0·59	70·80	70·12
		Atia (*Tangail*)	0·85	......	......	......	......	......	......	1	0·85	1·79	0·45	62·69	55·41
		Mymensingh	0·22	......	......	......	......	......	......	1	0·22	1·38	0·35	97·93	73·06
		Jamalpore	0·53	......	......	......	......	......	......	1	0·53	0·87	0·43	86·01	64·16
		Netrakona	0·35	......	......	......	......	......	......	1	0·35	0·55	0·13	126·47	72·74
		Subornakhali	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·43	?
		Durgapore	......	......	......	......	......	......	......	Nil	Nil	0·30	?	150·28	?
		Sherepore Town	0·44	......	......	......	......	......	......	1	0·44	1·08	?	88·17	?
		Dewanganj	......	......	......	......	......	......	......	Nil	Nil	0·77	?	57·08	?
NORTH BENGAL	Pubna	Pubna	......	......	......	......	......	......	......	Nil	Nil	0·33	0·35	50·20	53·64
		Seraigunge	0·17	......	......	......	......	......	......	1	0·17	0·25	0·40	60·51	53·80
	Bogra	Sherepore	0·01	......	......	......	......	......	......	1	0·01	0·01	0·34	62·07	57·42
		Nowkhilla	0·34	......	......	......	......	......	......	1	0·34	1·48	0·35	62·44	54·25
		Bogra	0·50	......	......	......	......	......	......	1	0·50	0·70	0·43	71·33	60·59
		Panchbibi	0·70	......	......	......	......	......	......	1	0·70	1·02	0·32	65·98	55·72
	Rajshahye	Beauleah	......	......	......	......	......	......	......	Nil	Nil	0·14	0·39	46·34	52·91
		Nattore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·61	58·34	54·92
		Naogaon	......	......	......	......	......	......	......	Nil	Nil	Nil	0·78	57·87	51·42
		Lalpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	36·72	?
		Mande	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·27	?
	Maldah	Maldah	......	......	......	......	......	......	......	Nil	Nil	Nil	0·43	50·53	51·72
		Chanchal	......	......	......	......	......	......	......	Nil	Nil	Nil	0·51	28·96	56·71
		Gajol	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·77	?
	Dinagepore	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·57	53·63	56·39
		Churamon	......	......	......	......	......	......	......	Nil	Nil	Nil	0·66	51·82	52·58
		Raigunge	0·12	......	......	......	......	......	......	1	0·12	0·12	0·57	52·37	57·84
		Dinagepore	0·49	......	......	......	......	......	......	1	0·49	0·49	0·40	68·33	63·42
		Baloorghat	......	......	......	......	......	......	......	Nil	Nil	0·01	0·62	61·29	51·82
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	0·34	?	57·81	?
	Rungpore	Bhawanigunge (*Gyabanda*)	0·64	......	......	......	......	......	......	1	0·64	0·84	0·37	88·39	61·06
		Rungpore	0·20	......	......	......	......	......	......	1	0·20	0·57	0·59	74·98	74·56
		Kurigram	......	......	......	......	......	......	......	Nil	Nil	0·65	0·51	91·62	73·34
		Bagdogra (*Nilphamari*)	......	......	......	......	......	......	......	Nil	Nil	0·80	0·50	88·40	85·14
		Ulipore	......	......	......	......	......	......	......	Nil	Nil	0·10	?	79·10	?
	Julpigoree	Julpigoree	......	......	......	......	......	......	......	Nil	Nil	0·18	0·55	123·45	117·00
		Alipore Door	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Fallacotta	......	......	......	......	......	......	......	Nil	Nil	0·80	?	128·23	?
		Debiganj	......	......	......	......	......	......	......	Nil	Nil	1·02	?	90·94	?
		Bhagatpore (Nagrakatta)	......	......	......	......	......	......	......	Nil	Nil	0·71	?	139·22	?
	Cooch Behar	Dinhatta	0·16	......	......	......	......	......	......	1	0·16	0·83	0·67	98·83	96·39
		Cooch Behar	......	......	......	......	......	......	......	Nil	Nil	0·55	0·44	125·89	115·30
		Mekligunge	0·03	......	......	......	......	......	......	1	0·03	1·07	0·53	123·40	105·74
		Matabhanga	......	......	......	......	......	......	......	Nil	Nil	0·40	0·48	118·03	111·64
	Darjeeling Hill	Buxa	0·03	0·04	......	......	......	......	......	2	0·07	1·28	1·14	192·37	192·86
		Silliguri	0·24	......	......	......	......	......	......	1	0·24	0·31	0·90	121·02	103·40
		Darjeeling	......	......	......	......	......	......	......	Nil	Nil	0·40	0·63	128·27	108·75
		Kalimpong	0·43	......	......	......	......	......	......	1	0·43	0·79	1·31	92·15	83·97
		Kurseong	......	......	......	......	......	......	......	Nil	Nil	1·08	?	170·23	?
NORTH BEHAR	Purneah	Kissengunge	......	......	......	......	......	......	......	Nil	Nil	1·30	0·62	103·67	70·43
		Arrareah	......	......	......	......	......	......	......	Nil	Nil	0·14	0·42	70·78	63·08
		Purneah	......	......	......	......	......	......	......	Nil	Nil	0·02	0·45	62·47	61·00
		Gondwara	......	......	......	......	......	......	......	Nil	Nil		?		?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil		?		?
		Matiari	......	......	......	......	......	......	......	Nil	Nil		?		?
		Kaliaganj	......	......	......	......	......	......	......	Nil	Nil	0·20	?		?
	North Bhagulpore	Maddapore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·47	60·85	40·55
		Soopool	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	67·26	48·18
		Protabganj	......	......	......	......	......	......	......	Nil	Nil	0·31		88·16	?
	Durbhunga	Tajpore	0·13	......	......	......	......	......	......	1	0·13	0·13	0·65	42·57	43·21
		Durbhunga	0·23	......	......	......	......	......	......	1	0·23	0·23	0·52	50·24	45·86
		Madhubani	0·04	......	......	......	......	......	......	1	0·04	0·45	0·76	63·56	45·08
		Bahera	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·96	?
		Roshera	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi	0·06	......	......	......	......	......	......	1	0·06	0·30	0·55	55·45	47·12
		Mozufferpore	0·06	......	......	......	......	......	......	1	0·06	0·06	0·81	48·47	45·38
		Hajipore	0·05	......	......	......	......	......	......	1	0·05	0·05	0·65	42·57	43·05
		Paru	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·69	?
		Mahua	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·09	?
		Seahar	0·10	......	......	......	......	......	......	1	0·10	0·40	?	?	?
		Pupri	......	......	......	......	......	......	......	Nil	Nil	0·54	?	48·14	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of January 1890 —concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 25th January.	Sunday, 26th January.	Monday, 27th January.	Tuesday, 28th January.	Wednesday, 29th January.	Thursday, 30th January.	Friday, 31st January.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date
North Behar —concluded.	Chumparun	Motihari	.....	...	.....	...	.....	...	..	Nil	Nil	0·54	0·04	75·33	44 81
		Bettiah	0·00	...	...	...	...	...	.	1	0·06	0·28	0 09	38·57	48 [illegible]
		Bagaha	.....	.....	.....	.....	...	.....	..	Nil	Nil	0·37	?	70·24	?
		Narkatwa	.....	.....	...	.....	.....	...	.....	Nil	Nil	Nil	?	51·70	?
	Saran	Gopalgunge	.....	.....	...	.....	...	...	.....	Nil	Nil	Nil	0·86	35·44	43·59
		Sewan	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	0 78	44 20	44 01
		Chuprah	.....	.....	.....	...	.....	..	..	Nil	Nil	Nil	0·06	40·75	40· 0
South Behar	Shahabad	Buxar	.....	...	.....	.....	...	...	.....	Nil	Nil	Nil	0 70	47·44	38 62
		Dehree	.....	.....	.....	.....	...	...	..	Nil	Nil	Nil	0·72	4. 06	40·01
		Bhaboosh	.....	.	...	.....	.....	.....	...	Nil	Nil	Nil	0 00	34·16	40·97
		Sasseram	.....	.....	...	.....	.....	.....	.	Nil	Nil	Nil	0·51	39·41	40·[illegible]
		Arrah	.....	...	.....	...	.....	.....	.	Nil	Nil	Nil	0 06	42·69	40·35
		Mohanish	.....	...	.....	.....	.....	...	...	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 62	35·42	42 92
		Gya	.....	...	...	...	.....	.....	...	Nil	Nil	Nil	0 00	39·8[illegible]	4 ·07
		Nowadah	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	0·70	39·59	40 14
		Jehanabad	.....	...	.....	...	...	.....	.....	Nil	Nil	Nil	0·74	31·40	40 17
		Arwal	.....	.....	.....	...	.....	.....	...	Nil	Nil	Nil	?	34 34	?
		Daudnagar	.....	...	.....	...	...	...	...	Nil	Nil	Nil	?	2[illegible] 89	?
		Sherrghati	.....	.....	...	.....	.....	...	.....	Nil	Nil	Nil	?	29·29	?
		Rajauli	.....	.....	.....	.....	...	.....	...	Nil	Nil	Nil	?	17 92	?
		Pakri Barawan	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	?	31·90	?
	Patna	Patna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 60	51·49	42·01
		Dinapore	.....	.....	.....	...	...	.....	.....	Nil	Nil	Nil	0·56	45·53	41·38
		Behar	.....	...	...	.....	.....	.....	...	Nil	Nil	Nil	0·67	41·08	41·49
		Barrh	.....	.	.	.....	.....	.....	.	Nil	Nil	Nil	0 46	35 8[illegible]	39·81
		Bukraon	.....	.....	.....	.....	.....	.....	.	Nil	Nil	Nil		41·24	?
		Hilsa	.....	...	.....	.....	...	.....	.....	Nil	Nil	Nil		35·.1	?
	Monghyr	Begoosarai	.....	.....	.....	.	.....	...	.....	Nil	Nil	Nil	0 59	47·62	40 23
		Monghyr	.....	.....	.....	...	.....	.....	...	Nil	Nil	Nil	0·49	41·67	40·56
		Jamui	.....	.....	.....	...	.....	.....	...	Nil	Nil	Nil	0 68	39·48	41·01
		Gogri	.....	.....	.....	.....	.....	...	...	Nil	Nil	Nil	?	39·19	?
		Sheikpura	.....	.....	.....	.....	.....	...	...	Nil	Nil	Nil	!	43·22	?
	South Bhagulpore	Bhagulpore	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	0 69	45 06	42·25
		Banka	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	0·57	38·34	43·78
		Kalgong	.....	.....	...	...	.....	.....	.....	Nil	Nil	Nil	?	40·97	?
		Bangaon	.....	...	.....	.	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	0·19	39·90	38·25
		Godda	.....	.....	.....	...	...	.....	.....	Nil	Nil	Nil	0·36	49 04	47 80
		Pakour	.....	...	...	.....	.....	.....	.....	Nil	Nil	Nil	0·25	73·50	35·[illegible]
		Nya Doomka	.....	...	.....	.....	.	.....	.....	Nil	Nil	0·02	0·56	56 77	53 30
		Deoghur	.....	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	0·44	40·40	50 64
		Jamtara	.....	.....	.....	.....	...	...	.....	Nil	Nil	Nil	0·40	44·21	40 14
		Mohagama	.....	.....	.....	.....	...	...	.....	Nil	Nil		?	56 41	?
		Nanihat	.....	...	.....	...	.....	.....	.....	Nil	Nil	Nil	?	55 87	?
Chutia Nagpur.	Hazaribagh	Pachamba (*Garhi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	38·90	47·39
		Hazaribagh	.....	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	0·38	49·10	47 13
		Semtagurah	.....	...	...	...	.....	.....	.....	Nil	Nil	Nil	0·51	36·24	46·92
		Mahudi Hills	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	0·33		48·10
		Jhoomra Hills	.....	.....	.....	...	.....	...	...	Nil	Nil	Nil	0 81	45·00	62 84
		Barhi	.....	.....	.....	...	...	...	.....	Nil	Nil	Nil	?	31·16	?
		Chatra	.....	.....	.....	.....	.....	.....	...	Nil	Nil	Nil	?	4··04	?
		Karagdeha	.....	.....	.....	.....	.....	.....	..	Nil	Nil	Nil	!	39 35	!
		Kamghar	.....	.....	.....	.....	.....	.....	.	Nil	Nil	Nil	?		?
	Lohardugga	Lohardugga	.....	.....	...	.....	.....	.....	...	Nil	Nil	Nil	0·99	45·24	51·45
		Ranchi	.....	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	0·60	53 61	53 19
		Palamow	.....	.....	.....	...	.....	...	.....	Nil	Nil	Nil	0·76	54·16	41·.8
		Silli	.....	.....	.....	...	.....	...	...	Nil	Nil	Nil	?	34·80	?
		Balumat	...	.....	.....	.....	...	...	...	Nil	Nil	Nil	?	?	?
		Hazaribagh	.....	...	...	.....	.....	...	.....	Nil	Nil	Nil	?	44·40	?
		Garwah	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	?	24·77	?
	Singbhoom	Chyebassa	.....	...	...	.....	.....	..	...	Nil	Nil	Nil	0·72	46·76	51·70
		Chakradharpore.	.....	.....	.....	.....	.....	...	...	Nil	Nil	Nil	?	40·80	?
		Ghatsilla	.....	...	...	.....	.....	...	.....	Nil	Nil	Nil	?	58·70	?
		Baharagura	...	.....	.....	.....	.....	.....	..	Nil	Nil	Nil	?	53·80	?
	Manbhoom	Purulia	0 00	..	..	.....	.....	.....	.....	1	0·06	0·06	0·46	43·58	49·01
		Gobindpore	.....	.....	.....	.....	...	...	...	Nil	Nil	Nil	0·50	35·19	45·01
		Raghunathpore.	...	.....	.....	...	...	.....	...	Nil	Nil	Nil	?	45·91	?
		Barrabhoom	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	?	44·32	?..
		Jhalda	.....	.....	.....	.....	...	..	.....	Nil	Nil	Nil	?	51 42	?
		Chas	.....	...	.	.....	.....	..	.	Nil	Nil	Nil	?	58·56	?

Explanation.—Indicates that no rain has fallen If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 4th February* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 31st JANUARY 1890.

It was noticed in the report for the previous week that on Friday, the 24th January, a disturbance which had originated in Northern India had commenced to pass over the province, moving in a south easterly direction. The disturbance consisted of an area of low pressure, or perhaps of two distinct areas accompanied by a feeble form of cyclonic circulation of winds. On the Friday there thus appeared to be a tendency to two distinct whirls, one of which had a centre in South Behar, while there was a second in Chutia Nagpur. On the first day of the present week, or on Saturday morning, the 25th instant, the disturbance had again moved in a south-easterly direction, and there was a distinct barometric depression lying over South-East Bengal which was accompanied by a well-marked circulation of winds the centre of which was a little to the south of Dacca. A second feeble depression also appeared to exist off the Ganjam coast, and there also was a tendency to cyclonic circulation along the coast. With the passage of these disturbed conditions through the province, numerous rain showers, in many instances accompanying local storms and in some instances with hail, occurred over the province, and on the 25th rain was generally reported in East Bengal, while very numerous stations in South-West Bengal, North Bengal, and Orissa and a few stations in North Behar also, received rain. On the 26th the disturbance had advanced over Burmah, and rather heavy rain was reported at such stations as Bassein Rangoon, etc., but in Bengal with the disappearance of the depression, weather conditions rapidly improved, and a rather strong northerly wind current set in, bringing with it a great reduction of temperature, the rapid fall of temperature being due to the fact that a moderately heavy fall of snow had been brought to the line of hills to the north and north-west of the province, which caused a cold wave of northerly winds to establish itself completely over the province. So rapid was the fall that the mean temperature of the 24 hours ending at 8 a m of the 26th was at many stations 5°, and at some stations as much as 9° and nearly 10° below the temperature of the previous 24 hours. At this time, therefore, the cold weather conditions set in over the province in a very pronounced form, and they have continued to exist till quite the end of the week. From the 26th, therefore, temperature has been decidedly low, while humidity was also only moderate in amount; pressure became steadily higher, and was by the middle of the week very high, though it fell somewhat towards its close. Skies were almost cloudless, and after the disappearance of the disturbed conditions absolutely no rain fell

Pressure.—Notwithstanding the very high pressure which occurred in the middle of the week after the disappearance of the depression, the mean pressure for the period has been somewhat below the normal at almost all stations. The usual defect has not been larger than about two or three-hundredths of an inch, but at some of the stations in North Bengal it equals four-hundredths, and at Chittagong it even equals six-hundredths of an inch. These larger defects are probably connected with the depression above referred to

Temperature—As stated previously, fell very rapidly on the 26th, and for the remainder of the week it has been decidedly low The mean temperature of the whole province for the week has been 2·4° below the normal, and in such districts as Chutia Nagpur and Orissa the defects have almost equalled four degrees.

The actual temperatures during the week, the range from day to night, and their variation from the normal values are best seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with the normal values From the figures given it will be seen that the night temperatures have generally been in larger defect than those of the day, and that the mean minimum temperatures of the week have been decidedly low.

The lowest temperature recorded during the week was 37·9° at Ranchi :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 31st January 1890.

	Normal mean maximum temperature for the week ending 31st January.	Actual mean maximum temperature for the week ending 31st January 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 31st January.	Actual mean minimum temperature for the week ending 31st January 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 31st January.	Actual mean daily temperature for the week ending 31st January, 1890.	Variation of actual mean from the normal.
Cuttack	80 2	82·2	—4·0	60·3	55·5	—4·8	73·3	68·8	—4·5
Calcutta	78·1	74·7	—3·4	57·0	53 5	—3·5	67 6	64·0	—3·6
Dacca	79·0	76·0	—3 0	55·6	53·1	—2 4	67·3	64·6	—2 7
Burdwan	79·7	81·3	+1·6	55·4	51·8	—3 6	67·6	66·6	—1 0
Patna	73·3	72·9	—0 4	50·5	47·0	—3 5	61 8	59·9	—1 9
Gya	76·3	73 9	—2·4	52·7	51·0	—1·7	64·5	62 5	—2 0
Purneah	75·1	72·7	—2·4	49·0	44·4	—4·6	62·0	58 5	—3 5
Hazaribagh	73·4	70·9	—2·5	51·4	46·4	—5 0	62·5	58 6	—3 9
Darjeeling	42·8	53·3	+10·5	33·5	32 7	+0·8	38·4	43·0	+4 6

The rainfall of the week has been rather important, and the falls in South-West and East Bengal have averaged about half an inch. In other districts the falls are much smaller, and Orissa and North Bengal only average about a tenth of an inch, while in North Behar it is only about half this. Chutia Nagpur and South Behar report no rain at all.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 31st of January 1890 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Of week. Average.	Normal average.	Variation.	Rainy days. Average number in week.	Normal average number in week.	Variation.	Since 1st of month. Average.	Normal average.	Since 1st May 1889. Average	Normal average.
Orissa	88·4	46 9	79·7	55·8	67·8	3·4	0·09	0·21	—0 12	0·3	0 4	—0·1	0·09	0·37	62·10	53·90
South-West Bengal ...	87 3	43 8	77 2	52·1	64 6	—2·3	0·40	0·16	+0·24	0·6	0·5	+0·1	0·44	0·46	52 81	52·01
East Bengal	80·6	46·0	75·1	53·1	64·2	—1·2	0·56	0·18	+0·38	0·9	0·4	+0·5	1·07	0·55	76 60	74 26
North Bengal	79·1	41·2	73·9	48·6	61 2	—1·9	0·13	0·20	—0 07	0·4	0 4	0	0·42	0·50	73 54	70 37
North Behar*	76·4	40·5	72·7	46·2	59·4	—1·7	0·04	0·24	—0·20	0·4	0 5	—0·1	0·23	0 63	57·89	48·82
South Behar	80·3	41 9	74·0	47·3	61·6	—1·6	Nil	0·15	—0·15	0·0	0·4	—0·4	Nil	0·55	44·16	43·89
Chutia Nagpur	77·3°	37 9°	70·9°	45 5°	58·2°	—4·0°	Nil	0·19	—0 19	0·0	0·5	—0·5	Nil	0·65	43·08	49·58

* Chyebassa and Chupra not included.

Meteorological Office, Bengal; *The 4th February* 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 26th January to 1st February 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Jan. 1890 ...	26th ...	30·021	64·7	73·4	17·5	55·9	67 6	57·2	·331	47·6	48	Nil
,, ,, ...	27th ...	·015	61·9	72·9	22·1	50·8	65·1	56·7	·350	49·1	56	.....
,, ,, ...	28th ...	·070	61·4	74·4	23·0	48 4	64·6	54·7	·298	44 8	49	.....
,, ,, ...	29th ...	·131	63·3	74·9	23·2	51·7	66·6	54 7	·272	42·4	41	.....
,, ,, ...	30th ...	·085	64·3	77·1	25·6	51·5	66·6	57·5	·357	49·7	55	.....
,, ,, ...	31st ...	·188	65·9	77·3	22·9	54·4	69·6	59·7	·382	51 5	53	.....
Feb. ,, ...	1st ...	·152	65·5	77·9	24·8	53 1	70·0	61·2	·426	54 5	57	.....

		Inches.
The mean 10 A.M. pressure of the seven days		30·085
		°
The mean temperature of the seven days		63·9
The extreme variation of temperature		29·5
The maximum temperature		77·9
		%
The mean 10 A.M. relative humidity of the seven days		51
		Inches.
The total fall of rain from 26th January to 1st February 1890 ...		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India; *The 3rd February* 1890.

MEMORANDUM

THE returns from the principal Municipalities in Bengal presented, during the week ending 18th January 1890, the following results :—

1. Births were registered in them at the rates of 23·1 per 1,000 of population, as opposed to very nearly the same proportion, viz., 22·8 per 1,000 in the preceding week ending 11th January, and deaths at 21·8 against 25 9 per 1,000, indicating a falling off in the registration of these events.

2. The following Municipalities returned the highest proportions of births and deaths :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Arrah	49·1	Poori	65·0
Naraingani	41·4	Naraingani	58·0
Monghyr	38·0	Jessore	49 0
Utterpara	37·7	Ranaghat	47 9
Serampore	37·3	Utterpara	47 2
Bali	31 6	Serampore	41·2
Comillah	30·8	Chittagong	37 6
Chittagong	30 5	Darjiling	37 0
		Burdwan	36·6
		Comillah	34·7
		Hughli and Chinsurah ...	32·8
		Rampore Beauleah	31 5

3. The only noticeable point, in connection with the incidence of the specific death-causes in comparison with the outcome of the preceding week, is a diminution of mortality from fever and the maladies classed under the head of "Other causes"—*vide* subjoined table :—

	Ratio per *mille* during the weeks ending—	
	18th January 1890.	11th January 1890.
Cholera	2 3	2·4
Small-pox	·6	·4
Fever	8 9	11·5
Bowel-complaints	3 1	3 1
Injury	·3	·4
Other causes	6·6	8 1

4. Of the death-causes above indicated, while small-pox continued to prevail with added severity in the Poori Municipality (mortality 18·9 per 1,000 of population, against 14 7 per 1,000 during the preceding week ending 11th January), cholera, fever and "other causes" proved conspicuously fatal in the following Municipalities :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Jessore	30 6	Ranaghat	29·9	Poori	25 2
Naraingani	20 7	Darjiling	29 6	Naraingani	20 7
Hughli and Chinsurah ...	9·8			Comillah . .	19 3
Chittagong	9·4			Serampore	17·7
Dacca	5·2			Burdwan	16 8
Howrah	4·6			Chittagong	11·7

5. The death-rates in relation to *Sex*, *Class* and *Age* stood as noted below :—

According to Sex.	Ratio per *mille.*	*According to Class*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23·3	Christians	14·9	Under 1 year ...	159 8
Females	20·3	Hindus	21 5	1 and under 5 years ...	23·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	115	Mahomedans ...	22·8	5 „ 10 „ ...	8 9
		Buddhists	51·4	10 „ 15 „ ...	8·6
				15 „ 20 „ ...	9 6
				20 „ 30 „ ...	14 8
				30 „ 40 „ ...	13 9
				40 „ 50 „ ...	20 3
				50 „ 60 „ ...	22 8
				60 years and upwards ..	68 0

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 3rd February 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 18th January 1890

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.*			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.						Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,663	16,617	34,080	7	6	13	16·7	9·1	19·8	116	3	...	7	3	...	11	24	4·5	...	10·7	4·5	..	16·8	36·6	39·7	16	8	46·1	26·0	177
Midnapore ...	Midnapore ..	16,927	16,633	33,560	4	3	7	6·2	4·6	10·8	133	...	...	1	3	...	6	10	...	...	1·5	4·6	...	9·3	15·5	27·9	6	4	18·4	12·5	150
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	5	8	13	8·2	13·1	21·3	63	6	—	9	3	...	2	20	9·8	...	14·7	4·9	...	3·3	32·8	36·1	4	16	13·1	52·6	25
Serampore ...	Serampore ...	13,559	12,937	26,496	8	11	19	15·7	21·6	37·3	72	...	..	7	5	...	9	21	...	...	13·7	9·8	...	17·7	41·2	13·2	10	11	38·4	44·3	86
	Uttarpara	2,046	2,464	5,510	2	2	4	18·3	16·8	37·7	100	...	...	1	2	...	2	5	...	...	9·4	16·8	...	18·8	47·2	10·5	4	1	68·3	21·1	324
Howrah ...	Howrah	53,183	37,660	90,813	23	22	45	13·2	12·6	25·8	104	8	...	16	13	...	10	47	4·6	...	9·2	7·4	...	5·7	26·9	25·8	27	20	26·4	27·6	96
	Bali	7,536	6,979	14,515	3	6	9	1·5	27·1	31·6	50	...	...	2	3	...	1	6	...	...	7·9	10·5	...	3·5	21·1	21·0	5	1	33·2	7·5	471
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	5	2	7	9·4	3·5	13·2	25	...	...	1	...	...	...	1	...	...	1·9	...	...	..	1·9	13·2	...	1	...	3·7	No male death.
	Ranaghat	4,023	4,655	8,678	3	2	5	17·9	12·0	29·9	150	...	...	5	1	...	2	8	...	...	29·9	6·0	...	12·0	47·9	41·9	6	2	77·5	22·3	350
	Santipore	18,708	15,979	29,687	5	3	8	8·3	5·2	14·0	166	3	...	3	...	...	1	7	5·2	...	5·2	...	...	1·8	12·3	10·5	3	5	7·6	16·3	44
Jessore ...	Jessore	4,830	3,665	8,495	2	1	3	12·2	6·1	18·4	200	5	...	2	...	...	1	8	30·6	...	12·2	...	...	6·1	49·0	55·1	4	4	43·1	36·8	77
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	4	7	11	19·5	18·4	28·9	57	...	...	7	4	...	1	12	...	..	18·4	10·5	..	2·6	31·5	26·3	9	3	43·5	17·3	253
Darjiling ...	Darjiling	4,579	2,439	7,018	1	1	2	7·4	7·4	14·8	100	..	...	4	1	...	...	5	...	...	29·6	7·4	..	...	37·0	44·5	4	1	45·4	21·8	214
Dacca ...	Dacca	42,782	37,379	80,161	13	11	24	8·4	7·1	15·6	118	8	..	10	2	1	12	33	5·2	...	6·5	1·3	·6	7·8	21·4	33·7	19	14	23·1	19·5	121
	Narainganj ...	7,695	4,966	12,661	10	...	10	41·4	...	41·4	No female birth.	5	...	3	1	...	5	14	20·7	...	12·4	4·1	...	20·7	58·0	29·0	10	4	69·4	42·0	165
Chittagong ...	Chittagong ...	13,340	8,798	22,138	5	8	13	11·7	18·8	30·5	62	4	...	6	1	...	5	16	9·4	...	14·1	3·3	...	11·7	37·6	42·3	13	3	50·7	17·7	286
Tipperah ...	Comillah	8,153	5,353	13,506	5	3	8	19·3	11·5	30·8	166	2	...	2	...	...	5	9	7·7	...	7·7	...	...	19·3	34·7	38·5	4	5	25·5	45·6	56
Patna	Patna City ...	78,762	81,475	160,237	16	13	29	5·2	4·2	9·4	123	2	1	10	5	1	6	25	·6	·3	3·2	1·6	·3	1·9	8·1	9·4	16	9	10·6	5·7	200
Gya	Gya	38,290	37,831	76,121	17	19	36	11·6	13·0	24·6	89	...	...	24	...	1	9	34	...	...	16·4	...	·7	6·1	23·2	26·0	15	19	20·4	26·1	79
Shahabad ...	Arrah	20,960	22,505	43,465	22	19	41	26·3	22·7	49·1	115	...	...	12	4	1	...	17	...	...	14·3	4·8	1·2	...	20·3	58·6	10	7	24·8	16·2	150
Mozufferpore	Mozufferpore ...	23,064	19,678	42,742	13	7	20	15·8	8·5	24·3	181	..	...	2	4	1	4	11	..	...	2·4	4·9	1·2	4·9	13·4	10·9	7	4	15·8	10·8	150
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	18	20	38	14·2	15·7	29·9	90	...	..	20	...	...	9	29	...	...	15·7	...	...	7·1	22·8	26·0	15	14	25·1	23·5	104
Sarun	Chupra	25,116	26,554	51,670	12	16	28	12·1	16·1	28·2	75	...	2	2	1	...	5	10	...	2·0	2·0	1·0	...	5·0	10·1	15·1	4	6	8·3	11·7	72
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	20	13	33	18·1	11·8	29·9	153	1	...	9	2	...	10	22	·9	...	8·1	1·8	...	9·1	19·9	19·9	14	8	24·6	15·0	160
Monghyr ...	Monghyr	28,154	29,366	57,520	17	25	42	15·4	22·8	38·0	68	...	...	10	4	1	6	21	...	...	9·0	3·6	·9	5·4	19·0	22·6	6	15	11·1	26·6	42
Purneah ...	Purneah	8,463	6,553	15,016	1	...	1	3·5	...	3·5	No female birth.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24·2	...	...	...	...	..
Poori	Poori	13,247	11,537	24,784	1	1	2	2·1	2·1	4·2	100	...	9	8	2	...	12	31	...	18·9	16·8	4·2	...	25·2	65·0	58·7	17	14	66·7	63·1	105
	Total ...	550,986	510,588	1,061,574	242	229	471	11·9	11·2	23·1	105	47	12	183	64	6	134	446	2·3	·6	8·9	3·1	·3	6·6	21·8	25·9	247	199	23·3	20·3	115

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	19	5	...	...	...	41·7	25·3	...	...	6	1	...	1	2	5	1	3	1	4	472·7	23·0	..	20·7	33·3	32·8	7·5	35·3	21·2	146·4
Midnapore ...	Midnapore ...	...	7	3	...	...	...	14·0	21·6	..	..	1	...	...	...	...	1	1	3	2	2	70·0	...	...	...	...	7·1	9·4	41·9	50·4	56·8
Hughli ...	Hughli and Chinsurah	...	15	5	...	...	...	30·9	42·2	...	...	1	3	4	...	1	2	...	2	...	7	64·8	70·3	72·1	...	20·7	16·8		24·9	.	175·6
Serampore ...	Serampore ...	...	19	2	...	..	...	39·2	110·9	...	...	3	3	...	2	...	4	2	3	...	4	219·7	86·4	...	46·9	..	38·6	20·9	46·2	...	149·5
	Utterpara	...	5	...	...	...	...	46·8	...	..	...	1	...	-	...	...	1	2	1	...	...	323·0	...	.	...	..	45·2	98·0	74·2		
Howrah ...	Howrah	1	31	11	...	...	27·5	26·7	27·9	..	...	8	6	2	...	1	9	5	5	4	7	201·0	56·3	8·3	...	7·1	20·6	13·5	22·1	37·9	97·0
	Bali	...	6	...	...	...	...	23·3	...	...	...	2	1	..	...	...	3	..	...	...	...	287·3	52·1	...	...	...	46·6	...	...	...	.
Nuddea ...	Kishnaghur ...	...	1	...	...	...	...	2·8	...	..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	12·1	...	..	.
	Ranaghat	...	4	4	...	...	...	28·4	152·4	.	...	...	2	...	1	...	1	1	...	2	1	...	130·8	..	59·9	...	34·5	41·7	...	148·6	91·4
	Santipore	...	6	1	...	...	...	15·1	5·8	...	...	3	1	...	...	...	2	.	...	1	...	184·6	17·9	...	...	...	21·2	...	.	22·6	..
Jessore ...	Jessore	...	6	2	...	...	...	69·2	27·2	...	...	1	...	...	..	1	2	...	3	1	...	26·0	...	...	...	71·0	51·6	...	148·6	92·4	...
Rajshahye ...	Rampore Beauleah	...	2	10	...	...	...	10·5	53·0	...	...	2	...	2	1	1	1	2	1	1	1	256·3	...	50·0	28·9	31·3	12·5	28·9	21·2	41·9	54·0
Darjiling ...	Darjiling	...	3	2	...	...	...	34·0	169·2	...	...	2	1	...	...	...	...	1	...	...	1	859·5	80·9	...	...	...	...	36·3	...	...	307·7
Dacca ...	Dacca	...	16	17	...	...	...	20·6	22·5	...	...	7	2	1	...	...	9	2	6	4	2	191·8	14·1	5·2	..	...	30·5	8·9	37·2	43·9	18·7
	Narainganj ...	...	9	5	...	...	...	74·0	42·2	...	...	3	...	...	...	...	2	3	1	...	5	559·1	..	...	..	..	39·0	72·9	37·3	...	393·8
Chittagong ...	Chittagong ..	1	5	3	2	...	65·3	44·8	27·2	433·3	...	3	1	..	3	1	2	2	2	...	2	277·1	26·4	...	60·5	21·5	22·5	31·2	46·1	..	130·7
Tipperah ...	Comillah	...	4	5	...	...	...	35·0	35·2	...	...	1	1	...	...	...	5	..	...	...	2	175·1	39·8	...	...	...	94·2	..	...	..	151·4
Patna	Patna City ...	...	18	7	...	...	...	7·9	8·9	...	...	4	1	...	2	1	...	3	1	4	9	45·3	3·6	...	7·2	4·7	...	6·7	2·8	14·7	33·9
Gya ...	Gya	...	24	10	...	...	...	20·8	32·3	..	..	5	3	2	1	3	...	2	8	2	8	145·3	24·6	14·9	7·7	29·8	...	8·2	42·6	15·8	80·8
Shahabad ...	Arrah	...	13	4	...	...	...	21·8	16·8	...	...	2	1	1	...	...	2	2	1	3	5	80·7	11·7	10·1	...	...	13·2	10·2	11·1	50·4	90·2
Mozufferpore ...	Mozufferpore ...	...	5	6	...	...	...	8·7	25·0	..	...	3	2	1	...	1	1	...	...	2	2	108·9	25·7	11·6	...	17·2	6·1	...	...	32·0	42·7
Durbhanga ...	Durbhanga ...	...	19	10	...	...	...	20·4	29·6	...	...	2	2	2	3	1	2	5	3	2	7	66·8	13·7	13·4	25·1	12·9	7·8	23·3	21·0	23·7	114·0
Sarun	Chupra	...	10	...	...	...	...	15·1	...	...	...	5	1	...	...	...	1	...	...	.	3	184·3	10·1	...	...	...	5·6	...	...	...	45·9
Bhagulpore ...	Bhaugulpore ..	...	15	7	...	...	...	19·6	21·1	...	...	6	1	1	1	...	4	3	...	2	4	261·3	9·6	8·9	8·3	...	19·9	16·8	...	24·4	57·7
Monghyr ...	Monghyr	...	16	5	...	...	...	18·6	20·7	...	...	6	3	...	1	1	...	4	1	...	5	210·1	25·1	..	9·1	14·8	...	23·3	8·2	...	72·5
Purneah ...	Purneah	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poori ...	Poori ..																														

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts	Description.	Total Government and Private				Private		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up	Down	Total.	Rupees.	Tons.	Rupees	
1,284	(*a*) Jute ...	23,814	.....	23,814	30,00,510	23,814	30,00,510	
65	(*b*) Jaggery ...	542	7	549	61,500	549	61,500	
3	(*c*) Sugar ...	24	.....	24	6,075	24	6,075	
5	(*d*) Tobacco ...	8	19	27	5,250	27	5,250	
889	(*e*) Fish ...	133	3	136	38,106	136	38,106	
32	(*f*) Hides ..	19	.....	19	4,170	19	4,170	
54	(*g*) Poultry ..	7	.....	7	5,247	7	5,247	
93	(*h*) Hay and straw .	483	.....	483	12 012	483	12,012	
116	(*j*) Oil ...	.....	1,793	1,793	2,51,000	1,793	2,51,000	
30	(*k*) Earthenware ...	2	.....	2	595	2	595	
654	(*m*) Other miscellaneous ...	3,832	312	4,144	4,92,470	4,144	4,92,470	
3,225	Total Miscellaneous...	28,864	2,134	30,998	38,76,935	30,998	38,76,935	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of November 1889.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
871	1. Grain ...	2,809	.....	2,809	2,20,600	2,809	2,20,600	
10	2. Cotton ...	66	.....	66	33,300	66	33,300	
2	3. Oilseeds ...	34	.....	34	3,325	34	3,325	
61	4. Salt ...	535	295	830	87,187	830	87,187	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
387	7. Building materials	3,797	7	3,804	15,912	3,804	15,912	
1,068	8. Miscellaneous* ...	3,546	70	3,616	4,62,827	3,616	4,62,827	
250	9. Fuel ...	2,735	43	2,778	22,772	2,778	22,772	
3 rafts	10. Timber ...	2,175 c. ft.	190 c. ft.	2,365 c. ft.	5,912	2,365 c. ft.	5,912	
7 „	11. Bamboos ...	225 „	.....	225 „	37	225 „	37	
2,649 & 10 rafts.	12. Total ...	13,522 & 2,400 c. ft	415 & 190 c. ft.	13,937 & 2,590 c. ft.	8,51,872	13,937 & 2,590 c. ft.	8,51,872	
4,739 & 8 rafts.	13. Total of same month last year ...	19,745 & 6,880 c. ft.	752 & 2,735 c. ft.	20,497 & 9,615 c. ft.	14,05,133	20,497 & 9,615 c. ft.	14,05,133	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	2,565	84	2,649
14*a*. Ditto empty boats „	1,174	226	1,400
15. Total number of boats plying passenger ... No.	684	21	705
16. Total registered tonnage, cargo ... Tons	38,012	2,685	40,697
17. Total registered tonnage, passenger ... Tons	1,926	81	2,007
18. Ton-mileage	353,608	42,960	396,568
19. Estimated value of cargo Rs.	8,04,145	41,778	8,45,923
20. Number of passengers No.	8,371	210	8,581
21. Rafts, bamboos C. ft.	225	.....	225
22. Do., bullahs „	2,175	190	2,365
23. Estimated value of rafts Rs.	5,474	475	5,949
24. Tollage on boats „	6,436-9-6	678-1-6	7,114-11-0
25. Compounded tollage on boats ... Rs	.....	.....	.....
26. Tollage on rafts „	18-2-6	13-8-0	31-10-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·44
28. Ditto on rafts per 100 cubic feet ... Rs.	.....	.....	1-3-6

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	7,146	5	6
Total tollage of same month last year ...	11,898	4	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	270	11	3
2. Tollage per month ...	7,146	5	6
3. Total	7,417	0	9
4. Amount paid into Treasury during the month ...	7,183	5	9
5. Balance due at the end of the month ...	233	11	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
105	(*a*) Jute ...	465	.....	465	58,590	465	58,590	
54	(*b*) Jaggery ...	389	.....	389	43,600	389	43,600	
.....	(*c*) Sugar ...	.....	.....	.....	.....	.....	.....	
16	(*d*) Tobacco ...	86	29	115	22,575	115	22,575	
135	(*e*) Fish ...	9	7	16	4,614	16	4,614	
.....	(*f*) Hides ...	.....	.....	.....	.....	.....	.....	
10	(*g*) Poultry ...	5	.....	5	1,122	5	1,122	
399	(*h*) Hay and straw...	603	.....	603	14,787	603	14,787	
53	(*j*) Oil ...	593	.....	593	83,000	593	83,000	
70	(*k*) Earthenware ...	94	12	106	1,484	106	1,484	
226	(*m*) Other miscellaneous.	1,302	22	1,324	2,33,055	1,324	2,33,055	
1,068	Total Miscellaneous...	3,546	70	3,616	4,62,827	3,616	4,62,827	

ABSTRACT FOR THE MONTH OF NOVEMBER 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1889-90.		Traffic, 1888-89.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	34,591 11 6	1,91,202 4 3	43,658 14 0	2,35,377 13 6
Tolly's Nullah	7,146 5 6	56,073 4 6	11,898 4 0	81,362 10 0
Total ..	41,738 1 0	2,47,275 8 9	55,557 2 0	3,16,740 7 6

Calcutta,
The 4th February 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st February 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 1st February 1890.			Week ending Saturday, the 2nd February 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,780	3,82,110	6,271	1,797	3,64,825	6,342
Jute	177	1,15,075	2,110	109	85,125	1,536
Firewood	87	53,400	806	146	83,725	1,222
Other articles	856	1,73,495	2,605	1,205	3,27,255	3,710
Total ...	2,900	7,24,080	11,792	3,257	8,60,930	12,810

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 25th January 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ..	*315,167	*3,46,082 6 0	25,13,603 10	5,56,499 3 0	20,612 10 0	9,23,194 3 0	69,719½	90,031½	159,751
Or per mile of railway	.....	228 2 10	.....	364 12 9	13 8 3	606 7 9	.....	.....	..
For previous 3 weeks of half-year	636,976	7,33,240 8 0	66,47,066 20	18,33 899 15 0	50,474 0 0	25,17,513 8 0	166,315½	236,857	403,172½
Total for 4 weeks ..	952,143	10,81,322 9 0	91,60,669 30	20,90,098 2 0	71,086 10 0	33,42,507 5 0	236,035½	326,888½	562,923½
Comparison.									
Total for corresponding week of previous year	238,113½	2,58,219 3 11	29,21,806 30	6,31,838 6 9	14,677 12 4	9,34,735 6 0	65,189	98,610	163,799
Per mile of railway corresponding week of previous year ..	.....	188 14 11	.....	414 3 0	*9 9 11	612 11 10	.....	.....	.....
Total to corresponding date of previous year	870,308	10,42,090 13 9	1,05,53,089 20	23,24,417 4 0	56,080 0 10	34,22,594 2 7	242,702	372,146	614,848

* The increase in coaching traffic is due to the "Magh Mela" held at Allahabad.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th January 1889.			Receipts for week ending 25th January 1890.			Total receipts from 1st April 1888 to 26th January 1889.			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
1,525½	9,34,735	613	1,525½	9,25,194	606	1,525½	3,59,62,319	543	1,525½	3,58,63,574	543	.....	1,98,745

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th January 1890, on 57¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,533	6,936 3 0	34,826 20	2,554 10 0	55 2 0	9,545 15 0	1,790	604	2,394
Or per mile of railway	237	121 4 2	609 0	44 10 7	0 15 5	166 14 2	.....	.....	.....
For previous 3 weeks of half-year	33,749	17,535 3 0	86,392 30	5,869 2 0	124 13 0	23,529 2 0	4,404	2,258	6,722
Total for 4 weeks ...	47,282	24,471 6 0	1,21,219 10	8,423 12 0	179 15 0	33,075 1 0	6,254	2,862	9,116
Comparison									
Total for corresponding week of previous year	11,244	5,917 10 7	62,035 20	2,067 12 0	29 9 0	8,014 15 7	1,947	1,135	3,082
Per mile of railway corresponding week of previous year ...	197	103 7 3	1,084 30	36 2 5	0 8 3	140 1 11	.....	.....	.....
Total to corresponding date of previous year	46,044	24,231 12 5	1,31,237 20	6,887 4 0	131 11 9	31,250 12 2	7,109	2,471	9,580

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th January 1889.			Receipts for week ending 25th January 1890.			Total receipts from 1st April 1888 to 26th January 1889.			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,015	140	57½	9,546	167	57½	4,00,009	133	57½	4,15,506	139	15,497	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 25th January 1890, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,713	5,266 1 0	12,413 30	435 4 0	7 3 0	5,708 8 0	900	84	984
Or per mile of railway	.....	236 10 10	.....	19 9 6	0 5 2	256 9 0	.....	.....	.....
For previous 3 weeks of half-year	48,410	12,163 7 0	27,685 10	1,097 4 0	18 12 0	13,279 7 0	2,321	165	2,486
Total for 4 weeks ...	69,123	17,429 8 0	40,104 0	1,532 8 0	25 15 0	18,987 15 0	3,221	249	3,470
Comparison.									
Total for corresponding week of previous year	20,073½	5,153 2 10	7,783 30	296 9 0	9 8 0	5,458 3 10	895	73	968
Per mile of railway corresponding week of previous year ...	.....	231 8 11	.....	13 5 3	0 6 10	245 5 0	.....	.....	.....
Total to corresponding date of previous year	71,067½	17,745 7 10	34,086 10	1,199 1 0	23 11 9	18,968 4 7	3,329	257	3,586

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 26th January 1889.			Receipts for week ending 25th January 1890.			Total receipts from 1st April 1888 to 26th January 1889.			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	5,458	245	22¼	5,709	257	22¼	2,25,351	230	22¼	2 23,984	233	.....	2,367

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 18th January 1890, on 747 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... ...	146,080	76,880 0 0	6,88,880 0	1,60,500 0 0	15,030 0 0	2,52,410 0 0	22,956	36,949	59,907
Or per mile of railway	196	103 0 0	922 0	215 0 0	*2 0 0	320 0 0	.....	.....	.....
For previous 2 weeks of half-year	270,740	1,18,230 0 0	9,71,200 0	2,36,940 0 0	26,810 0 0	3,81,980 0 0	36,369	58,769	95,138
Total for 3 weeks ..	416,820	1,95,110 0 0	16,60,080 0	3,97,440 0 0	41,840 0 0	6,34,390 0 0	59,327	95,718	155,045
COMPARISON.									
Total for corresponding week of previous year	137,937	67,527 0 0	5,35,573 0	1,20,468 0 0	13,981 0 0	2,01,976 0 0	21,553	27,430	48,983
Per mile of railway corresponding period of previous year ..	205	100 0 0	796 0	179 0 0	*2 0 0	281 0 0	.....	.....	.....
Total to corresponding date of previous year	305,880	1,77,304 0 0	13,07,976 0	3,18,863 0 0	40,034 0 0	5,36,201 0 0	53,679	82,560	141.239

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,01,976	300	747	2,52,410	338	673	87,78,590	311	724	*92,72,553	305	4,93,963	.....

* Audited up to week ending 23rd November 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 18th January 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	24,200	9,740 0 0	40,210 0	2,610 0 0	80 0 0	12,430 0 0	3,736	1,936	5,672
Or per mile of railway	194	78 0 0	322 0	21 0 0	.....	99 0 0	.....	.....	.....
For previous 2 weeks of half-year	48,450	16,840 0 0	67,350 0	4,330 0 0	130 0 0	21,300 0 0	5,870	3,044	8,914
Total for 3 weeks ...	72,650	26,580 0 0	1,07,560 0	6,940 0 0	210 0 0	33,730 0 0	9,606	4,980	14,586
COMPARISON.									
Total for corresponding week of previous year	25,785	9,777 0 0	46,875 0	2,329 0 0	56 0 0	12,162 0 0	3,736	1,940	5,676
Per mile of railway corresponding period of previous year ...	206	78 0 0	375 0	19 0 0	.....	97 0 0	.....	.....	.....
Total to corresponding date of previous year	72,002	26,210 0 0	1,42,645 0	6,029 0 0	2,506 0 0	33,745 0 0	10,161	5,250	15.421

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,162	97	125	12,430	99	125	5,79,900	110	125	*6,00,207	115	26,307	.....

* Audited up to week ending 23rd November 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th January 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	16,250	5,010 0 0	39,210 0	4,800 0 0	120 0 0	10,010 0 0	2,404	1,280	3,684
Or per mile of railway	189	66 0 0	456 0	50 0 0	1 0 0	117 0 0	.....	.....	.....
For previous 2 weeks of half-year	29,270	11,290 0 0	87,640 0	5,740 0 0	500 0 0	17,530 0 0	4,036	1,088	5,124
Total for 3 weeks ...	45,520	16,920 0 0	96,850 0	10,040 0 0	620 0 0	27,580 0 0	6,440	2,368	8,808
Comparison.									
Total for corresponding period of previous year .	14,457	4,322 0 0	21,278 0	2,256 0 0	63 0 0	6,641 0 0	2,479	625	3,104
Per mile of railway corresponding period of previous year . ..	168	50 0 0	247 0	26 0 0	1 0 0	77 0 0	.....	.....	.....
Total to corresponding date of previous year	41,770	13,478 0 0	33,191 0	3,671 0 0	339 0 0	16,988 0 0	6,763	1,696	8,458

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 19th January 1889.			Receipts for week ending 18th January 1890.			Total receipts from 1st April 1888 to 19th January 1889.			Total receipts from 1st April 1889 to 18th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,041	77	86	10,050	117	86	2,39,862	60	86	*3,10,814	87	70,952	.....

* Audited up to week ending 23rd November 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th January 1890 on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P	Mds. S.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	3,002	1,000 0 0	7,377 0	525 0 0	7 0 0	1,393 0 0	809	254	763
Or per mile of railway .	112	39 0 0	271 0	19 0 0	.....	58 0 0	.....	.....	.....
For previous 2 week of half-year	7,719	2,692 0 0	47,505 0	2,789 0 0	44 0 0	5,525 0 0	1,309	653	1,962
Total for 3 weeks ...	10,721	3,752 0 0	54,882 0	3,314 0 0	51 0 0	7,117 0 0	1,818	907	2,725
Comparison.									
Total for corresponding week of previous year	3,178	1,117 0 0	17,241 0	833 0 0	33 0 0	1,981 0 0	809	636	1,145
Per mile of railway corresponding week of previous year ...	117	41 0 0	633 0	31 0 0	1 0 0	73 0 0	.....	.....	.....
Total to corresponding date of previous year	11,731	4,303 0 0	58,629 0	2,937 0 0	71 0 0	7,311 0 0	1,890	2,003	3,893

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 26th January 1889.			Receipts for week ending 25th January 1890			Total receipts from 1st April 1888 to 26th January 1889.			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,981	73	27¼	1,592	58	27¼	62,852	74	27¼	81,905	73	.....	617

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th January 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	47 791	19,063 0 0	2,75 789 0	31,303 0 0	5,441 0 0	55,807 0 0	6,234	8,892	15,126
Or per mile of railway	175	70 0 0	1,003 0	114 0 0	3 0 0	187 0 0*	.....	.....	.....
For previous 2 weeks of half year	114,479	52,909 0 0	5,66,480 0	62,819 0 0	12,359 0 0	1,28,277 0 0	15,166	20,741	35,907
Total for 3 weeks ..	162,270	71,962 0 0	8,40 269 0	94,122 0 0	17,800 0 0	1,84,084 0 0	21,400	29,633	51,033
COMPARISON.									
Total for corresponding week of previous year	37,973	13,580 0 0	1,42,691 0	13,247 0 0	2,795 0 0	29,622 0 0	5,477	5,887	11,364
Per mile of railway corresponding week of previous year ..	139	50 0 0	523 0	48 0 0	1 0 0	99 0 0*	.....	.....	.....
Total to corresponding date of previous year	141,627	50,845 0 0	5,09,451 0	46,177 0 0	11,486 0 0	1,08,508 0 0	19,929	20,598	40,527

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 26th January 1889			Receipts for week ending 25th January 1890			Total receipts from 1st April 1888 to 26th January 1889			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs	Rs.		Rs	Rs	Rs.	Rs.
273	20 623	109	273	55 807	204	264·49	13,58,011	125	273	16,67.289	149	3,09,278	.. ...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for first 11 days of January 1890	9,482
Corresponding period of last year	8,017
Increase	1,465
	Miles.
Miles open first 11 days of January 1890	51
Corresponding period of last year	51
	Rs A. P.
Receipts per mile open first 11 days of January 1890	185 14 9
Corresponding period of last year	157 3 1
Increase	28 11 8

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The Calcutta Gazette.

WEDNESDAY, FEBRUARY 12, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 163A.

GENERAL.—*The 4th February* 1890.—Mr. J. B. Worgan, District and Sessions Judge, Cuttack, is appointed to act as District and Sessions Judge of Dinagepore, during the absence, on deputation, of Mr. J. G. Charles, or until further orders.

Mr. F. J. G. Campbell is appointed to act as District and Sessions Judge of Cuttack, during the absence, on deputation, of Mr. J. B. Worgan, or until further orders, with effect from the date on which he joined the appointment.

Mr. A. H. Collins is appointed to act, until further orders, in the first grade of Joint-Magistrates and Deputy Collectors, and is posted to the Sudder station of the district of Dinagepore, on being relieved of his present appointment as Officiating District and Sessions Judge of that district.

The 5th February 1890.—The Lieutenant-Governor is pleased, under paragraph 16, Special India Army Circular, dated the 16th March 1889, to promote Captain Joseph Binning, Presidency Volunteer Reserve Battalion, to the rank of Major.

Baboo Komul Narain Chuckerbutty, Sub-Deputy Collector, Tipperah, is transferred to the Sudder station of the Chittagong Hill Tracts district.

Mr. H. Lee, Officiating Magistrate and Collector, Midnapore, is allowed leave for nine days, under article 291 of the Civil Service Regulations in extension of the leave granted to him under the orders of the 7th January 1890.

The 6th February 1890.—Mr. W. F. Meres, C.S., has been granted by Her Majesty's Secretary of State for India an extension of furlough for twelve months.

The 7th February 1890.—The services of Captain C. J. Keene of the Eastern Bengal State Railway Volunteer Rifle Corps are placed at the disposal of the Government of the Punjab.

Mr. J. B. Worgan, District and Sessions Judge, is allowed leave for twelve days, under article 108 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 31st January 1890.

The 11th February 1890.—Baboo Okhoy Coomar Bose, Deputy Magistrate and Deputy Collector, on leave, is posted to the Sudder station of the district of Noakholly.

The Lieutenant-Governor is pleased to accept the resignation tendered by Lieutenant H. Stuart of his appointment as Quartermaster, Behar Light Horse.

Lieutenant H. C. Spry is appointed to be Honorary Quartermaster of the Behar Light Horse, with effect from the 2nd January 1890, *vice* Lieutenant H. Stuart, resigned.

Commander E. W. Petley, Calcutta Naval Volunteers, is, with the sanction of His Excellency the Governor-General in Council, appointed Honorary Aide-de-Camp on the staff of His Honour the Lieutenant-Governor of Bengal.

Mr. C. P. Caspersz, Officiating Magistrate and Collector, Chittagong, is allowed furlough for ten months, under article 340 of the Civil Service Regulations, with effect from the 21st March 1890, or such date as he may be relieved.

POLICE.—*The 10th February* 1890.—Mr. R. F. G. Faussett, Officiating Assistant Superintendent of Police, is allowed leave for one year, under article 369 of the Civil Service Regulations, with effect from the 12th December 1889.

Mr. C. E. Briscoe, Officiating Assistant Superintendent of Police, Midnapore, is allowed leave for ten days, under article 273 (*a*) of the Civil Service Regulations, with effect from the date on which he availed himself of it.

ECCLESIASTICAL.—*The 10th February* 1890.—The Revd. W. S. Mitchell, Baptist Missionary, Gya, is hereby licensed, under section 6 of Act XV of 1872, to solemnize marriages between persons one or both of whom is a Christian or are Christians.

The Revd. W. S. Mitchell is also appointed to be a Registrar of Births and Deaths under Act VI of 1886.

The 11th February 1890.—The Revd. F. W. Brown, Minister of the American Baptist Mission, Balasore, is hereby licensed, under sections 6 and 9 of Act XV of 1872, to solemnize marriages between persons one or both of whom is a Christian or are Christians, and to grant certificates of marriages between persons who are Native Christians.

The Revd. F. W. Brown is also appointed to be a Registrar of Births and Deaths under Act VI of 1886.

EDUCATION.—*The 8th February* 1890.—Mr. E. F. Mondy, Officiating Principal, Dacca College, is appointed to act, until further orders, in class III of the Bengal Educational Service, with effect from the 29th December 1889, *vice* Mr. A. C. Edwards, on privilege leave.

The 11th February 1890.—Baboo Syama Churn Ganguli, Principal, Utterpara College, is appointed to act in class II of the Subordinate Educational Service, with effect from the 18th November 1889, *vice* Baboo Mathura Nath Chatterjee, on leave.

Mrs. Stansbury, Head Mistress, Eden Female School, Dacca, is appointed to act in class III of the Subordinate Educational Service, with effect from the 18th November 1889, *vice* Baboo Syama Churn Ganguli, on deputation.

Baboo Upendra Nath Maitra, Lecturer, Dacca College, is appointed to act in class IV of the Subordinate Educational Service, with effect from the 18th November 1889, *vice* Mrs. Stansbury, on deputation.

Dr. A. F. R. Hoernle, Principal, Madrassa College, Calcutta, is allowed furlough for eight months, under article 340 of the Civil Service Regulations, with effect from the 1st July 1890, or such subsequent date as he may avail himself of it.

MEDICAL.—*The 11th February* 1890.—Surgeon-Major A. Tomes, Officiating Civil Surgeon, Howrah, is allowed leave for two months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The following notification is republished from the *Assam Gazette* :—

No. 652G.—*The 31st January* 1890.—Consequent on the recall to duty from privilege leave, for the period from the 1st to the 5th of September 1889, of Mr. J. Kennedy, C.S., the officiating promotions of Messrs. J. D. Anderson, C.S., A. Porteous, C.S., and H. Le Mesurier, C.S., announced in notification No. 351 of the 25th of October 1889, published in the *Assam Gazette* of the 2nd of November 1889, will have effect from the 20th, instead of the 15th of September 1889.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—In the order dated the 24th December 1889, published in the *Calcutta Gazette* of the 25th id., notifying the result of the Half-yearly Departmental Examination of Assistant Magistrates and others held in November last, *for* "Mr. E. E. Slane, Assistant Conservator of Forests, and Mr. R. Quinnell, Assistant Conservator of Forests" *read* "Mr. E. E. Slane, Sub-Assistant Conservator of Forests, and Mr. R. Quinnell, Sub-Assistant Conservator of Forests."

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT,—FORESTS.

NOTIFICATION.

The 5th February, 1890.—In exercise of the powers conferred upon him by section 19 of the Indian Forest Act VII of 1878, the Lieutenant-Governor hereby declares the tracts of land described below, which (on the 26th November, 1880, as regards the Girga Forest, and on the 20th February, 1882, as regards the other four forests) were notified as proposed Reserves, to be Reserved forests with effect from the 1st March, 1890.

Girga Forest.

District.	Pergunnah or other sub-division.	Name of forest	Description of boundaries.
Singbhoom ...	Porahat ...	Porahat (Girga)	*North.*—A demarcated line from the Lohardugga-Singbhoom boundary skirting the village lands of Jojobir, Komdih, Omda, and Sidma to a point north-west of the village of Kamargaon. *East.*—A demarcated line from that point skirting the village lands of Kamargaon, Salking, Usnugir, and Daimar to the Karo river; then that river for about one mile; then a demarcated line skirting the village lands of Sadiuli and Jilingutu to a point near that village. *South.*—A demarcated line skirting the village lands of part of Jilingutu, Tomden, Jojoda (or Bangurda), Kamai, Sinko (or Chindung), Baru Lumin and Bera Lumin. *West.*—The Lohardugga district boundary.

NOTE.—From this area are omitted the lands belonging to the following groups of villages which have been marked off by demarcation :—

Group.	Villages.
I.—Bando	1. Bandu. 2. Baritola. 3. Khanta. 4. Irgi. 5. Lhosod. 6. Kita.
II.—Pandoa	1. Ponda. 2. Aida. 3. Aidatola.

Birda Forest.

District.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
Singbhoom ...	Porahat ...	Birda ...	*North.*—The demarcated boundary of the Kundrugutu-Bundgaon Pirs starting from the trijunction point of these two pirs with the Baring Pir near Jiklatang and running to the hill west of Kairka. *East.*—A demarcated line passing southward for a mile and a half over the hills west of and skirting the village lands of Jalmai and Bandi; then running generally southward past the villages of Loajagda Mamla, Kocha Songra, and Songra to the road near Tuihasa. *South.*—A demarcated line from this point past the villages Tuihasa, Erekora, Karla and Birda. *West.*—A demarcated line from Birda past the villages Birda, Dighi, Kontari, Dargada, again Kontari and Dighi and Kaman to the north boundary at Jiklatang.

NOTE.—From this area are omitted the lands belonging to the following villages which have been marked off by demarcation :—

Group.	Villages.
Chirkubora	1. Chirkubora. 2. Porotoli. 3. Anidih. 4. Akir. 5. Dumreo.

Songra Forest.

DISTRICT.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
Singbhoom ...	Porahat ...	Songra ...	*North.*—A demarcated line from a point on the boundary between Songra and Lagra east of the Harni stream near the village of Dumari and skirting the range of hills past the villages Dumari, Angria, Lagra, Chatma, Saunia, Sinko, Marla and Sarda to the Chaibassa-Bandgaon road at Tupna; thence passing over the Bicha Hill to Tutio. *East.*—The Tamar pergunnah of Lohardugga for about 4 (four) miles; then the Seraikela estate to a hill west of Jonua and south-east of Kurjuli. *South.*—A demarcated line from this hill passing over the Lokudburn Hill and crossing the Tolsadom stream about one mile north of Mundri; then passing between the hills half a mile north of Kutipiri to the Chaibassa-Gudri road; then that road for about a mile. *West.*—A demarcated line skirting the village lands of Roauli, Jamjni, Hoilohr, Sidma, Bandu, Kumar and Buriuli to the Kundrugutu road; then that road to a point at the foot of the Jhanda hill about a mile south of Kundrugutu; then a demarcated line skirting the village lands of Kundrugutu, Bingbu, Kandeon Khandajni, Lota, Chaki, Daraia, Jirai, Kopa, Hesatola and Gupdi to the north boundary near Dumari.

NOTE.—From this area are omitted the lands belonging to the following villages which have been marked off by demarcation:—

Group.	Villages.
I.—Pingu	1. Pingu. 2. Loahatu.
II.—Kocha	1. Kocha. 2. Dudukundih. 3. Goai.
III.—Tarabara	Tarabara.
IV.—Tebo	1. Tebo. 2. Sainkata
V.—Kotagarah	1. Kotagarah. 2. Senkra.
VI.—Halmad	1. Halmad. 2. Rogod.
VII.—Raigora	Raigora.
VIII.—Jonko	Jonko.
IX.—Kurjuli	1. Kurjuli. 2. Kanmail. 3. Burudih.

Kundrugutu Forest.

DISTRICT.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
Singbhoom ...	Porahat ...	Kundrugutu ...	*North.*—A demarcated line starting from a point on the Girga-Baring Pir boundary near the village of Gere, and skirting the lands of the villages Gere, Mamail, Chakomtola, Ichagutu, Siyankel, Longabera, again Siyankel and Ichagutu, Darung, again Chakomtola, Tomrom, Jatanghasa and Champaba to the Raru river near Tondanghatu; then that river for about one and a half miles to a point between Sanhai (deserted village) and Jarakel; then a demarcated line skirting the village lands of Lota, Manmaru, Jarakel and Kundrugutu, joining the western boundary of the Songra forest at a point on the old road about a mile south of Kundrugutu. *East.*—The old road running in a general southerly direction from a point about a mile south of Kundrugutu to Buriuli, and which forms the western boundary of the Songra Reserved forest.

District.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
			South.—A demarcated line from a point on the Kundrugutu road north of Buriuli, and skirting the village lands of Buriuli, Sidma, Hoilohr, Lamda, Dindapani, Dena and Jate; then the Chaibassa-Gudri road from a point near Jate to a stream near Kotagara; then a demarcated line skirting the village lands of Kotagara and Jarakel to the Gompai nadi; then the Gompai nadi for 850 feet near Birkel; then a demarcated line passing over the ridge of the hill north of the village Kiru (or Giru) to the Karo river. *West.*—The Karo river past Roro to a point about a quarter of a mile below the junction of the Karo and Raru rivers; then a demarcated line skirting the village lands of Buru Ururing, Ururing, Biti, Tutukel (deserted), Jomtai, Olmokund and Gere to the north boundary.

NOTE.—From this area are omitted the lands belonging to the following villages which have been marked off by demarcation :—

Group.	Villages.
I.—Tolongjiri	... Tolongjiri.
II.—Kaiom	... 1. Buru Kaiom. 2. Bera Kaiom.
III.—Dharion	... 1. Dharion. 2. Kamrora.
IV.—Kudabera	... 1. Kudabera (or Kodobera). 2. Kukruburu. 3. Diai.
V.—Jonkopai	... Jonkopai.

Bera Forest.

District.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
Singbhoom ...	Porahat ...	Bera ...	*North.*—A demarcated line running from a point near the village of Kichinda south-west of Gudri, skirting the village lands of Kichinda, Tirkera, and Gudri to the Gompai nadi; then up that stream for about 1,400 feet; then again a demarcated line skirting the village lands of Birkel and Jarakel to the Gompai nadi near Jarakel village; then the Gompai nadi for about 1½ miles and on to the Gudri-Chaibassa road. *East.*—The Gudri-Chaibassa road from a point near Kotagara to a point near Jate (along the boundary of the Kundrugutu forests); then a demarcated line skirting the village lands of Jate to the Danki Manda stream; then that stream for about 1,000 feet; then a demarcated line skirting the village lands of part of Jate, Joro (or Byjora), Banjira and Dura to the Sanjai river; down that stream for about ¾ of a mile to its junction with the Danluhr nadi; then up that nadi for about 2,200 feet; then a demarcated line skirting the village lands of Kutipiri, Banskata, Ponsoa and Jarakel to the Muttrabera nadi, which it follows for about 400 feet on to its junction with the Mantuda nadi, which it follows for about 2,000 feet past Beikora and Berabinda; then a demarcated line skirting the village lands of Jhaliamara, Khorimati, and Brindabon. *South.*—A demarcated line from a point north of Dhunamara skirting the village lands of Jamjni, Ghoraduba, Soinka, Kuntupai and Dorbo to the Chaibassa-Gurjun road; then that road along the Bera Leda forest boundary until it meets the Anandpur estate.

DISTRICT.	Pergunnah or other sub-division.	Name of forest.	Description of boundaries.
			West.—A demarcated line following the boundary between the Anandpur estate and the Porahat and Dorka Pirs of the Porahat estate to the junction of the Koel and Karo rivers; then the Karo river to a point about half a mile north of the village Saudiuli; then a demarcated line skirting the village lands of Konskel and Kichinda.

NOTE.—From this area are omitted the lands belonging to the following villages which have been marked off by demarcation—

Group.	Villages.
I.—Saruda	Saruda.
II.—Gulikora	1. Gulikora. 2. Tongsarjom.
III.—Serengda	Serengda.
IV.—Kantinkel	1. Kantinkel. 2. Eugan. 3. Komurkel. 4. Konsai.
V.—Hindiong	1. Hindiong. 2. Sausal. 3. Rairda.
VI.—Sarugara	1. Sarugara. 2. Chitir.
VII—Oranga	1. Oranga. 2. Kebra. 3. Horo. 4. Bara. 5. Tomsai.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 10th February, 1890.—The following programme of the proposed Visitation Tour of the Lord Bishop of Calcutta is published for general information.

P. NOLAN,
Secretary to the Govt. of Bengal.

Programme of the Bishop of Calcutta's Visitation of the Central Provinces and others parts, 1890.

Station.	Arrival.	Departure.	REMARKS.
Calcutta	.....	Thursday, February 13th.	
Harda	Saturday, February 15th ...	Monday „ 17th.	
Chanda	Tuesday „ 18th ...	Friday „ 21st.	
Nagpur	Friday „ 21st ...	Tuesday „ 25th.	
Raipur	Wednesday „ 26th ...	Thursday „ 27th.	
Kamptee	Friday „ 28th ...	Tuesday, March 4th.	
Akola	Tuesday, March 4th ...	Wednesday „ 5th	
Jubbulpur	Wednesday „ 5th ...	Monday „ 10th.	
Allahabad	Tuesday „ 11th ...	„ „ 17th ...	Visiting Pertabgarh.
Ranchi	Wednesday „ 19th ...	„ „ 24th.	
Calcutta	„ „ 26th ...	Tuesday, April 8th.	
Barharwa	Tuesday, April 8th ...	Wednesday „ 9th.	
Taljhari	Wednesday „ 9th ...	Monday „ 14th.	
Bhagulpur	Monday „ 14th ...	Tuesday „ 15th.	
Jamalpur	Tuesday „ 15th ...	Wednesday „ 16th.	
Motihari	Wednesday „ 16th ...	Friday „ 18th.	
Mozufferpur	Friday „ 18th ...	Monday „ 21st.	
Durbungha	Monday „ 21st ...	Wednesday „ 23rd.	
Calcutta	Thursday „ 24th ...		

Letters should, as a general rule, be addressed to those places where a Sunday is spent, the names of which are printed in italics. Matters of routine requiring immediate attention should be addressed to the Bishop's Commissary, Kidderpur Parsonage, Calcutta.

The Bishop desires to inspect all the Church Registers and other books at each station which he visits.

H. O. MOORE, *Bishop's Chaplain.*

THE PALACE; *Calcutta, 28th January*, 1890.

NOTIFICATION.

The 7th February, 1890.—Baboo Bonomali Pramanick, Sub-Deputy Collector of Baraset, in 24-Pergunnahs, is appointed, under Rule 1, Chapter VI of the rules made by the Local Government under the Bengal Tenancy Act, to be a Settlement Officer in place of Baboo Satchidananda Mukerjee, Sub-Deputy Collector, for the purpose of making a survey and preparing a record of rights in estate No. 26 in the district of 24-Pergunnahs.

P NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 11th February, 1890.—All Deputy Collectors in the Lower Provinces of Bengal are hereby authorized to discharge the functions of Revenue Officers under Chapter X of the Bengal Tenancy Act VIII of 1885, and are vested with the powers of a Settlement Officer under Rule 1, Chapter VI of the rules framed by Government under that Act.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 11th February, 1890.—Under section 8 of the Bengal Survey Act V of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made of all the lands in towji No. 4 of the Bankoorah district, and that the boundaries of mouzahs and fields situated therein shall be demarcated.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 6th February 1890.—Baboo Shama Charan Mitter, Deputy Collector, is appointed Deputy Collector of Income-tax in the district of Hooghly, *vice* Baboo Gyanendra Nath Pal, on leave, and, under section 40 of Act II of 1886, is vested with the powers of a Collector under the Act.

H. J. S. COTTON,
Offg. Secy to the Govt. of Bengal.

NOTIFICATION.

The 10th February 1890.—Baboo Girish Chandra Dutt, Deputy Collector, is appointed Deputy Collector of Income-tax in the district of Noakholly, *vice* Baboo Kali Prasanna Chowdhury, and, under section 40 of Act II of 1886, is vested with the powers of a Collector under the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 5th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of the central distillery at Burdwan, in the villages of Barsarbamangala and Muradpur, mahalla Paikmarapara, pergunnah Burdwan, zillah Burdwan, it is hereby declared that for the above purpose a piece of land measuring, more or less, 4 bighas 6 katas and 14 chataks of standard measurement, bounded on the North by the paddy fields of Muktakesi Debi and waste lands of Jagatmohini Dasi of Kulashushini; on the West by the public road and side lands; on the South by the *bastu* lands of Jagatmohini Dasi of Kulashushini and the Bhutgariya tank or Dattapokar and the paddy fields of Muktakesi Debi; on the East by the paddy fields of Muktakesi Debi, is required within the aforesaid villages of Barsarbamangala and Muradpur, mahalla Paikmarapara. A copy of the land plan may be inspected by the parties interested in the office of the Collector of Burdwan.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 8th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of a central distillery at Furreedpore, in the village of Alipore, pergunnah Dhuldi, zillah Furreedpore, it is hereby declared that for the above purpose a piece of land measuring, more or less, 7 beegahs 5 cottahs and 18 dhoors of standard

measurement, equivalent to 2 acres 1 rood and 27 poles, bounded on the North by the Govindapore road, on the East by the road leading to the Ferry ghat, on the South by the Furreedpore khal, and on the West by a hálot, is required within the aforesaid village of Alipore. A plan of the land may be inspected by the parties interested at the office of the Collector of Furreedpore.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 164A.

The 4th February 1890.—The undermentioned Honorary Magistrates in the district of Nuddea are vested with the powers of a Magistrate of the second class—

At Kishnaghur	...	...	Baboo Umesh Chundra Dutta.
At Kooshtea	...	...	Baboo Ram Gopal Datta. „ Bishwanath Singh.
At Ranaghat	...	...	Baboo Jogesh Chundra Pal Chowdhury.

Under section 320 (*k*) of the Code of Criminal Procedure (Act X of 1882), the Lieutenant-Governor exempts Baboo Dwaraka Nath Maitra, a pleader of the Munsif's Court at Atia, from service as assessor in criminal trials held within the district of Mymensingh.

The 5th February 1890.—Baboo Janoki Nath Dutt, Munsif of Serampore, in Hooghly, is appointed to act as a Munsif in the district of Rajshahye, to be ordinarily stationed at Seebgunge, during the absence, on leave, of Baboo Hari Narain Roy, or until further orders.

Baboo Janoki Nath Dutt is vested with the powers of a Judge of a Court of Small Causes for the trial of suits cognizable by such a Court up to the value of Rs. 50 within the local limits of the Seebgunge Munsifi.

Baboo Jaduv Chandra Sen, B L., is appointed to act as a Munsif in the district of Hooghly, to be ordinarily stationed at Serampore, during the absence, on deputation, of Baboo Janoki Nath Dutt, or until further orders.

Mr. S. J. Douglas, Joint-Magistrate and Deputy Collector, Gya, is vested with powers under sections 110, 183, 186, 191 clause (*c*), 260 and 524 of Act X of 1882.

The 6th February 1890.—Baboo Radha Shyam Sing, Deputy Magistrate and Deputy Collector, Jessore, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

The 7th February 1890.—Mr. A. C. Sen, Officiating Joint-Magistrate, Cuttack, is vested with powers under section 110 of Act X of 1882.

The undermentioned Commissioners of the Beernagore Municipality, in the district of Nuddea, are appointed to be Honorary Magistrates and vested with the powers of a Magistrate of the third class for the purpose of forming a Bench for the trial of municipal cases under Act III (B. C.) of 1884, and under section 84 of Act V of 1861 :—

Baboo Monindra Nath Mookerjee.	Baboo Nashiram Sarkar.
„ Baranashi Bosu.	„ Narendra Nath Mookerjee.
„ Upendra Nath Mookerjee.	„ Jogendra Nath Mookerjee.

The 8th February 1890.—The undermentioned gentlemen are appointed to be Honorary Magistrates of the Independent Benches mentioned in the district of Mymensingh, and are vested with the powers of a Magistrate of the third class :—

For the Independent Bench at the Sudder Station :—

Baboo Surja Kumar Das, Partition Deputy Collector.	Baboo Nil Ratan Mookerjee.

For the Tangail Independent Bench.

Mir Mushruf Hosain.	Baboo Isan Chandra Gupta.

For the Netrokona Independent Bench.

Baboo Rajani Kanth Sen.	Baboo Gour Sunder Singh.

For the Kishoregunge Independent Bench.

Baboo Krishna Narain Roy.	Baboo Ram Narain Agasti.

Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Baboo Kailash Chandra Chatterjee, Sub-Deputy Magistrate of Nattore, in the district of Rajshahye, to take down evidence in criminal cases in the English language.

The 10th February 1890.—Baboo Umesh Chandra Sen, Munsif of Satkhira, in the district of Jessore, is vested with the powers of a Judge of a Court of Small Causes for the trial of suits cognizable by such a Court up to the amount of Rs. 50 within the local limits of the Satkhira Munsifi, during the absence, on leave, of Baboo Chandi Charan Sen, or until further orders.

Baboo Tara Prosonno Roy is appointed to be an Honorary Magistrate of the Manickgunge Bench, in the district of Dacca, and is vested with the powers of a Magistrate of the third class.

The Lieutenant-Governor accepts the resignation tendered by Baboo Grish Chunder Roy of his appointment as an Honorary Magistrate of the Manickgunge Bench, in the district of Dacca.

The 11th February 1890.—Baboo Sheo Nundun Lal Roy, Deputy Magistrate and Deputy Collector, Chumparun, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

Baboo Prosanna Kumar Dutt, Deputy Magistrate, Bogra, is vested with powers under sections 110, 133, 186 and 524 of the Code of Criminal Procedure.

GRANT OF LEAVE TO MUNSIFS.—*The 8th February* 1890.—Baboo Revati Charan Banerjee, Munsif of Diamond Harbour, in the district of the 24-Pergunnahs, on deputation to Alipore in the same district, is allowed leave for ten days, viz, eight days under article 309 of the Civil Service Regulations, and the remaining two days under article 306(*b*) of the same Regulations, with effect from the 16th February 1890, or from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Third Publication.]

NOTIFICATION.

The 21st January 1890.—Under section 2 of Act II (B.C) of 1867 (an Act to provide for the punishment of public gambling and the keeping of common gaming houses), the Lieutenant-Governor is pleased to authorize the extension, from the 1st February 1890, of the provisions of the said Act to the villages of Saidpore and Kuja Saidpore (commonly known as the town and bazar of Saidpore), within the jurisdiction of the police-station of Nilphamari and the district of Rungpore. The boundaries of the tract within which the said Act shall be in force are as follows:—

North—A straight line drawn from the Saidpore Rifle Range to Penduram Bairagi's house.

South—A straight line drawn from the east of Baboopara to the village road east of Nanku Havildar's para.

East—A straight line drawn from Penduram Bairagi's house to the east of Baboopara.

West—A straight line drawn from the village road east of Nanku Havildar's para to the Saidpore Rifle Range.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

[Third Publication.]

NOTIFICATION.

The 22nd January 1890.—It is hereby notified that the Lieutenant-Governor authorises the extension of the provisions of section 34 of Act V of 1861 to the town comprising the places known as Makundprosad, Jagarsing and Gurujang, in the district of Pooree, within the boundaries noted below, with effect from the 1st April 1890—

Bounded on the north by Tangiapara, Nuagan, Kumbharbast and Kunjiama; on the south by Sanpala, Khorda, and Jaganathpur; on the east by Bartola and Kholadwar; on the west by Sardhapur.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION.

The 11th February 1890.

No. 40.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Adi Mallik Chowkidar for his jagir land acquired for the Makundpur drainage channel of Machhgaun Canal, in the village of Pakunpur, pergunnah Gandito, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 2 poles of standard measurement, bounded on the north by royti land of Bhaigo Das; on the south by that of Bharat Majhee; on the east by that of Donai Mohanti; and on the west by that of Bidyakar Das, is required within the aforesaid village of Pakunpur.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 41.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz, for compensating Gokhai Mallik Chowkidar for his jagir land acquired for No. 8, Distributary and Branches from the Puttamoondi Canal, in the village of Ganiamuha, pergunnah Derabis, killah Aul, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 6 poles of standard measurement, bounded on the north by waste mehal land; on the south and east by thani land of Parikhit Prusti; and on the west by Branch B of No. 8, Distributary, Puttamoondi Canal, is required within the aforesaid village of Ganiamuha.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 42.—*Erratum.*—In the Resolution of the Government of Bengal, Public Works Department, Irrigation, published at page 202 of the Supplement to the *Calcutta Gazette* of the 5th February 1890, *for* "No. 1981.A." and "3rd February 1890" *read* "No. 641.A." and "13th January 1890."

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 5th February 1890.

No. 39.—The services of Mr. W. H. Rushton, Executive Engineer (temporary rank), are temporarily transferred to the Railway Branch for employment on the Behar Section of the Eastern Bengal State Railway.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION No. 35Mne.

The 7th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to appoint, under section 11 of the Indian Merchant Shipping Act VII of 1880, Mr. W. Warden, Collector of Customs and Shipping Master of Chittagong, to be "Detaining Officer" at that port.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

NOTIFICATION No. 36Mne.

The 7th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to extend the provisions of section 7 of the Indian Merchant Shipping Act VII of 1880, authorizing the provisional detention of ships believed to be unsafe, to the Port of Chittagong.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

[Flrt Publication.]

NOTIFICATION No. 31Mne.

The 4th February 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 17).

BAY OF BENGAL.

BURMA COAST.

Alteration of light on Savage Island—port of Akyab.

IN continuation of Notice to Mariners, No. 14, dated the 27th January 1890, issued by this Office, information has been received from the Port Officer, Akyab, that the light on Savage island will be obscured from the 27th idem, preparatory to its removal to the temporary structure, and will be re-exhibited after 10 to 15 days. During this period a blue light will be burnt every ½ of an hour.

By direction of the Government of Bengal,

OLIVER LASH R.N.,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th February* 1890.

[First Publication.]

NOTIFICATION No. 32Mne.

The 4th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 18).

BAY OF BENGAL.

BURMA COAST.

Blue lights on Savage island discontinued.

IN continuation of Notice to Mariners No. 17, dated the 4th instant, a telegraphic communication has been received from the Port Officer, Akyab, that the blue lights on Savage island were discontinued from the 2nd idem.

By direction of the Government of Bengal,

OLIVER LASH, R.N.,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th February* 1890.

[First Publication.]

NOTIFICATION No. 38Mne.

The 11th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 19).

CHINA SEA.

SINGAPORE, WESTERN APPROACH—SALAT SINKI.

Bell buoy withdrawn; and a light-vessel moored on Ajax shoal.

THE British Admiralty has given notice (No. 23 of 1890) that on 1st February 1890 a light-vessel will be moored on Ajax shoal, west side of Salat Sinki, western approach to New harbour, Singapore:—

The light will be a *flashing* white light, showing a *flash every thirty seconds*; it will be elevated 38 feet above the sea, and should be visible in clear weather from a distance of 10 miles.

The light-vessel will be painted yellow, with the word *Ajax* in white letters on a black ground on her sides. She will carry a caged ball, painted red, at the masthead, as a day mark.

Position, lat. 1° 13′ 55″ N., long 103° 40′ 20″ E.

Also, that on the same date, the Bell buoy now marking Ajax shoal will be withdrawn.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th February* 1890.

[First Publication.]

NOTIFICATION No. 39Mne.

The 11th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 20).

BAY OF BENGAL.

CHITTAGONG COAST.

Spar buoy replaced temporarily.

INFORMATION has been received from the Port Officer, Chittagong, that the Spar buoy referred to in Notice to Mariners No. 28, dated 18th March 1889, having sunk, a second class iron buoy has been laid down off the western edge of the sand in about 6½ fathoms low water; lat. 21° 31′ North, long. 91° 39′ East: Chart No. 859.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th February* 1890.

[Second Publication.]

NOTIFICATION No. 29Mne.

The 3rd February 1890.—The following Notice to Mariners is published for general information.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 16).

BAY OF BENGAL.

ORISSA COAST.

Date of exhibition of new light from Chandipore flagstaff.

IN continuation of Notice to Mariners, No. 49, dated the 31st May 1889, issued by this Office, it is intended to exhibit the new light on the Chandipore flagstaff from the 1st May 1890.

The height of the new light above high-water mark will be 62 feet.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 30th January* 1890.

[Third Publication.]

NOTIFICATION No. 12Mne.

The 24th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 9).

AFRICA—NORTH-EAST SHORE.

GULF OF ADEN.

Permanent Light-ship off Ras Marbut, Aden Harbour.

Information has been received from the Political Resident at Aden that on the 15th February the temporary Light-vessel moored off Ras Marbut, Aden, Harbour, will be replaced by the permanent Light-ship. The vessel is moored in 18 feet at low water, and shows at an elevation of 39 feet above the sea a flashing White Light visible every minute. The vessel is painted Red, but has no Red Ball at mast-head and exhibits no Red Flag during the day as stated at page 90, Chapter IV, 3rd Edition of the Gulf of Aden Pilot.

By direction of the Government of Bengal,

E. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 22nd January* 1890.

[Third Publication]

NOTIFICATION No. 14Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 10).

AFRICA—EAST COAST.

RED SEA—WESTERN SHORE.

A light placed on the island of Difnein, Musawwa Channel.

INFORMATION has been received from the Consul-General for Italy, through the Director of Indian Marine, that a light visible at 6 miles distance, to indicate the North entry of the Musawwa Channel, has been placed on the N.-E. end of the Island of Difnein. The light is in latitude 16° 37′ 8″ N. and longitude 39° 18′ 15″ E. Arc of illumination 195 degrees, leaving a dark sector between the 65° and 250°.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Third Publication.]

NOTIFICATION No. 15Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 11).

AUSTRALIA—EAST COAST.

ULLADULLA HARBOUR.

Fixed light on Warden head, and discontinuance of pier light.

THE British Admiralty has given notice (No. 456 of 1889) that on 1st December 1889 a light would be exhibited from a light-house recently erected on Warden head, south side of entrance to Ulladulla harbour.

The light is a *fixed* White light, visible in clear weather from a distance of about 12 miles.

Position: Approximate lat. 35° 22¼′ S.; long. 150° 31¼′ E.

Also, that on the same date, the light (fixed *green*) previously shown from the pier head, Ulladulla harbour, would be discontinued.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Third Publication.]

NOTIFICATION No. 16Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 12).

AFRICA—EAST COAST.

ZANZIBAR ISLAND.

Fixed light on Mwana Mwana Island.

INFORMATION has been received from the British Admiralty (No. 452 of 1889) that a light is now exhibited from a light-house (construction commenced in 1881) on the north extreme of Mwana Mwana island, north-west coast of Zanzibar island.

The light is a *fixed* white light.

Position: Lat. 5° 45′ 10″ S.; long. 39° 13′ 10″ E.

NOTE.—The regular exhibition of this light should not be relied on.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Third Publication.]

NOTIFICATION No. 17Mne.

The 27th January 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 13).

INDIA—SOUTH.

CEYLON—EAST COAST.

A "Torpedo Buoy" placed at the entrance to Trincomalee Harbour.

THE Colonial Government of Ceylon has given notice that on and after 25th December 1889 until 28th February 1890, a Red Buoy, with a red flag and the words "Torpedo Buoy" painted on it, will be placed in the entrance to Trincomalee Harbour between Ostenburg Point and Little Sober Island, and 260 yards from the former.

The water in the triangle formed by this Red Buoy, the E. Point of Small Sober Island and Clappenburg Point, will be obstructed by mines.

All vessels should pass between the Buoy and Ostenburg Point.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th January* 1890.

[Third Publication.]

NOTIFICATION No. 19Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M McNEILE, *Col.*, R.E.,
Joint-Secretary to the Govt of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 14).

BAY OF BENGAL.

BURMA COAST.

Date of alteration of Savage Island light—Port of Akyab.

WITH reference to Notice to Mariners, No. 50, dated the 31st May 1889, issued by this office, a telegraphic communication has been received from the Port Officer, Akyab, that the transfer of Savage island light, at the entrance of the Port of Akyab, will commence from the 27th instant.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 27th January* 1890.

[Third Publication.]

NOTIFICATION No. 20Mne.

The 28th January 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 15).

BAY OF BENGAL.

BURMA COAST.

Position of a water-logged Native vessel and pieces of wreckage.

A TELEGRAPHIC communication has been received from the Port Officer, Rangoon, that the Master of the steam-ship *Euphrates* reports having passed on the 23rd instant a water-logged native vessel in latitude 15° 23′ north, longitude 94° 59′ east; also pieces of wreckage when 8 miles off Krishna light-vessel. Shipmasters are cautioned accordingly.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 27th January* 1890.

EASTERN BENGAL STATE RAILWAY SYSTEM.

NOTIFICATION.

No. 2.—Mr. W. H. Chase, District Locomotive Superintendent, is granted eight months' furlough, under article 371 of the Civil Service Regulations, 1st edition, with effect from 14th February 1890, with subsidiary leave from 4th idem, or such subsequent date as he may avail himself of the same.

G. F. O. BOUGHEY, *Lieut.-Col., Manager.*

SEALDAH, *the 7th February* 1890.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 1351, *dated 6th February* 1890.—Assistant Surgeon Nirmul Chunder Gupta, attached to the Lungleh Hospital in the Lushai country, is appointed to the medical charge of the sub-division and dispensary at Cox's Bazar in the Chittagong district, *vice* Assistant Surgeon Bejoy Gobind Chowdry, transferred.

No 1354, *dated 6th February* 1890.—Assistant Surgeon Bejoy Gobind Chowdry, attached to the sub-division and dispensary at Cox's Bazar, is appointed to the medical charge of the sub-division and dispensary at Palamow in the Lohardugga district, *vice* Assistant Surgeon Kali Nath Banerjee, removed.

No. 1357, *dated 6th February* 1890.—Assistant Surgeon Jogendro Nath Basu, a Supernumerary at the Presidency, is appointed temporarily to the medical charge of the sub-division and dispensary at Cox's Bazar in the Chittagong district, during the absence, on deputation, of Assistant Surgeon Nirmul Chunder Gupta, or until further orders.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

HIGH COURT NOTICE.

General Letter No. 1, dated Calcutta, the 20th January 1890.

From—C. M. W. BRETT, Esq., Registrar, High Court,

To—The $\frac{\text{Sessions Judge}}{\text{District Magistrate}}$ of

I AM directed to invite your attention to the accompanying copy of a Notification of the Government of Bengal, and to request that you will so arrange the business coming before your Court as to comply, as far as possible, with the wishes of the Government.

HIGH COURT.
ENGLISH DEPARTMENT.
Criminal.

NOTIFICATION.

The 24th December 1889.—It is hereby notified for general information that on the following Mahomedan holidays during the year 1890, all public offices and Revenue and Magisterial Courts in Bengal, with the exception of the offices of Collector of Customs Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, the Stamping Department of the Office of the Superintendent of Stamps, Calcutta, and the Salt Rowannah and Opium Sale Departments of the Board of Revenue, shall be closed :—

Eed-ul-fitr, which falls on the 21st May, or, if the moon be not visible on the 20th May, on the 22nd May.

Eed-uz zoha, which falls on the 28th July, or, if the moon be not visible on the 18th July, on the 29th July.

Mohurrum, the last two days of which fall on the 26th and 27th August, or, if the moon be visible on the 16th August, on the 25th and 26th August.

Fatiah-doaz-dahum, which falls on the 27th October, or, if the moon be not visible on the 15th October, on the 28th October.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

Sheriff's Office, the 22nd January 1890.

NOTICE is hereby given that the First Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the seventeenth day of February next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ২২শে জানুয়ারি।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার ফোর্ট উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তি জন্য আগামী সন ১৮৯০ সালের ১৭ই ফেব্রুয়ারি সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিকাতার হাই কোর্টের আপন আদালত ঘরে সন ১৮৯০ সালের প্রথম ক্রিমিনেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন কয়েদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচঃ বিঃ এইচঃ টারনার, শরিফ।

TREASURY NOTICES.

DEPUTY COLLECTOR MR. C. A. S. BEDFORD, Assistant Commissioner, has been placed in charge of the Darjeeling Treasury from 1st February 1890, and authorized to draw bills on other treasuries.

By order,

HARI MOHAN CHANDRA, *Personal Assistant.*

COMMR.'S OFFICE, RAJSHAHYE DIVN., JULPIGOREE, *the 6th February* 1890.

DEPUTY COLLECTOR BABOO CHANDI CHARAN BOSU is temporarily placed in charge of the Dacca Treasury, during the absence, on public service, of Baboo Chandra Kumar Dutta, or until further orders.

A. L. CLAY, *Offg. Commissioner.*

DACCA COMMR.'S OFFICE, CAMP PATUAKHALI, *the 3rd February* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 7th February 1890.—Babu Lachman Lal, Second Master of the Patna City School (class VI), is appointed to officiate as Head Master of the same institution, *vice* Mr. J. H. D'Abreu, on leave.

Maulavi Ifazuddin Ahmad, Third Master of the Patna City School, is appointed to officiate as Second Master of the same institution and in class VI, *vice* Babu Lachman Lal.

The 8th February 1890.—Babu Sarada Kanta Sen, Departmental Sub-Inspector of Schools. Tipperah (class VI), is allowed leave of absence for three months under Article 291 of the Civil Service Regulations, with effect from the 1st March 1890, or any subsequent date on which he may avail himself of it.

Babu Mahim Chandra Basu, Departmental Sub-Inspector of Schools, Mymensingh (class VI), is appointed to act as Deputy Inspector of Schools, Tipperah, during the absence, on deputation, of Babu Bidyadhar Das, or until further orders.

A. CROFT, *Director of Public Instruction.*

NOTIFICATION OF THE BOARD OF REVENUE.

No. 113B.

NOTICE is hereby given that the Third Sale of Opium, the Provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Monday the 3rd March 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory ...	... 2,250
Ditto at the Ghazeepore Factory ...	... 2,500
Total	... 4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. The may be ascertained by reference to the Notification issued onthe 26th November, 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Boar of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th March 1890, respectively, that is to say no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th March 1890 and no Bank of Bengal Receipts in full payment of lots will be accepted afte 3-30 P.M. of Tuesday, the 18th March 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale in the present year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.	Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Wednesday, 2nd April 1890.	2,250	2,500	4,750
On or about Thursday, 1st May ,, ...	2,250	2,500	4 750
On or about Monday, 2nd June ,, ...	2 250	2,500	4,750
On or about Wednesday, 2nd July ,, ...	2,250	2,500	4,750
On or about Monday, 4th August ,, ...	2,250	2,500	4,750
On or about Monday, 1st September ,, ...	2 250	2,500	4,750
On or about Wednesday, 1st October ,, ...	2,250	2,500	4,750
On or about Monday, 3rd November ,, ...	2,250	2,500	4,750
On or about Monday, 1st December ,, ...	2,250	2,500	4,750
Total ...	20,250	22,500	42,750

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Calcutta, the 28th January* 1890.

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 31st January 1890.

DESCRIPTION OF SALT.	Government golahs.	Private golahs.	Afloat.	Total.
	Mds.	Mds.	Mds.	Mds.
Liverpool Punga	7,00,485	.....	2 21,730	9,22,215
Bombay Kurkutch	30,986	.....	6,627	37,613
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	8,11,992	... ..	4 180	8,16 172
Aden Kurkutch	1,77,573	.....	90,963	2 68,536
Hamburg salt	99,167	.....	23,696	1,22,863
Total ..	18,20,203	.....	3,47,196	21,67,399

By order of the Board of Revenue, L. P.,
J. SCOBELL ARMSTRONG, *Collector of Customs.*

CUSTOM HOUSE, CALCUTTA, *the 7th February* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 28th December 1889, in Ward No. IV of the Ranchi Municipality, Baboo Kalipada Ghosh, M.A., B.L., has been elected to be a Commissioner of the said Municipality, under section 27 of the Bengal Act III of 1884.

CHOTA NAGPORE, the 7th February 1890. W. H. GRIMLEY, Commissioner.

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27 of Act III (B.C.) of 1884 on Monday, the 20th January 1890, Baboo Kumud Nath Dey has been elected a Commissioner for Ward No. IV of the Hooghly and Chinsurah Municipality in the district of Hooghly, *vice* Baboo Shibo Pada Roy Chowdhury, deceased.

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 5th February* 1890.

NOTIFICATION.

IT is hereby notified for general information that a bye-election will be held on Monday, the 7th April next, in Ward No. 3 of the Satkhira Municipality, in the district of Khoolna, to elect a Commissioner for that Ward in the place of Baboo Bepin Behari Bose, who has ceased to be a Commissioner under the operation of section 20, Act III (B C) of 1884, being absent from six consecutive meetings.

A. BHATTACHARJEE, *Personal Assistant, for Commissioner on tour.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 10th February* 1890.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 12, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following order, issued by the Government of India in the Home Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION—EDUCATION.

The 1st February 1890.

No. 49.—Under section XII of Act II of 1857, the Governor-General in Council is pleased to authorize the affiliation of the Rajchandra College, Barisal, to the Calcutta University in Arts up to the B.A. Standard and in Law, with effect from the 6th December 1889.

A. P. MACDONNELL,
Secretary to the Govt. of India.

The following order, issued by the Government of India in the Department of Finance and Commerce, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.

No. 669.—The following substantive promotions have been made among the Enrolled Officers of the Account Department, with effect from the 16th January 1890, in consequence of Mr. R. A. Sterndale's retirement :—

* * * * * *

Mr. C. G. Vansittart to be Enrolled Officer, class V, and

* * * * * *

E. J. SINKINSON,
Secretary to the Government of India.

The following order, issued by the Government of India in the Military Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

VOLUNTEER CORPS.

APPOINTMENT.

Fort William, the 7th February 1890.

No. 148.—*Calcutta Volunteer Rifle Corps*—

Mr. Bruce Ellis to be second Lieutenant, *vice* Gough, resigned.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The following order, issued by the Government of India in the Marine Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

APPOINTMENT.

No. 6.—Navigating Lieutenant E. W. Petley, R.N. (retired), is appointed Port Officer of Calcutta, with effect from the 1st April 1888, the date on which he assumed charge of the duties of that office.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 12, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 5th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. E. Stewart, Sub-divisional Officer, to be the Chairman of the Madhubani Municipality in the district of Durbungah, *vice* Mr. W. Maude, c.s., transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 6th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. C. A. White, Executive Engineer, to be a Commissioner of the Sewan Municipality in the district of Sarun, *vice* Mr. A. G. Tytler, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—It is hereby notified that the members of the Rampore Hât Local Board, in the district of Beerbhoom, having at a meeting, under section 25 of Act III (B.C.) of 1885, requested the Lieutenant-Governor to appoint a Chairman, the Lieutenant-Governor is pleased, under the said section, to appoint Mr. C. J. Stevenson Moore, c.s., the Sub-divisional Officer of Rampore Hât, to be Chairman of that Local Board.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—Whereas a notification, dated the 28th September 1889, was published at page 217, Part IB of the *Calcutta Gazette* of the 2nd October 1889, declaring the Lieutenant-Governor's intention to sanction, under section 86 of the Bengal Municipal Act III (B.C) of 1884, the levy by the Commissioners of the Motihari Municipality, in the district of Chumparun, of a fee, under section 143, on the registration, under section 142, of all carts kept or habitually used within the Municipality, and whereas no good reasons have been shown to the contrary, it is notified for general information that the Lieutenant-Governor hereby sanctions the levy, by the Commissioners of the Motihari Municipality, of the fee on the registration of carts at the rates not exceeding those mentioned in section 143.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—Whereas a notification, dated the 17th November 1889, was published at page 248, Part IB of the *Calcutta Gazette* of the 20th idem, declaring the intention of the Lieutenant-Governor to extend the provisions of Part IX of Act III (B.C.) of 1884 to the Dinagepore Municipality, and whereas no objection has been raised to the proposal within one month from the date of the publication of the above notification within the Municipality, it is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 221 of the Act, and in accordance with the recommendation of the Commissioners of the Dinagepore Municipality, made at a meeting, the Lieutenant-Governor sanctions the extension of Part IX of the Municipal Act to the said Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the District Board of Beerbhoom :—

Local Boards by which elected.	Names of members.
Soory	Baboo Madan Gopal Sing. „ Kamalakshya Chatterjea. „ Rajat Sekhar Rai.
Rampore Hât	Baboo Surat Nath Mukerjea. „ Kedarnath Mittra. Munshi Abdus Sobhan.

2. The following gentlemen are appointed, under section 7 of the Act, to be members of the Board—

The Civil Surgeon of the district, *ex-officio.*
The Deputy Inspector of Schools, *ex-officio.*
The Road Cess Deputy Collector, *ex-officio.*
The Revd A. McKenna.
Baboo Chandragati Mustafi.
„ Bunwari Lal Sen.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890 —It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Soory Local Board, in the district of Beerbhoom, under section 25 of Act III (B.C.) of 1885, of Baboo Madan Gopal Singh to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Kedar Krishna Banerjea to be the Chairman of the Jhaldah Municipality, in the district of Manbhoom, *vice* Baboo Kedarnath Mittra, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 8th February 1890.—It is hereby notified that, under section 24 of the Bengal Local Self-Government Act III (B. C.) of 1885, the Lieutenant-Governor is pleased to re-appoint the Magistrate of Midnapore to be the Chairman of the Midnapore District Board, with effect from the 27th January 1890.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th February 1890.—It is hereby notified for general information that, under section 138 of the Bengal Local Self-Government Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to alter Rule 81, Part IV of the rules made under clauses (*b*), (*c*), (*d*), (*e*), (*f*), (*h*), (*j*), (*q*), (*s*) and (*t*) of the said section. The rule, as now amended, is as follows :—

"81. The latest day for the submission of the statement of the requirements and probable expenditure of the District Board for the ensuing financial year shall be the 15th of November."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 6th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., widening the bye-lane from premises Nos. 98 to 104, Upper Chitpore Road, it is hereby declared that for the above purpose pieces of land, Nos. 99 and 104, Upper Chitpore Road in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 3 chittacks and 24 square feet only, are required.

The boundaries of the lands are as follow :—

Portion marked A on plan.—On the North and West a public bye-lane; on the South portion of premises No. 99, Upper Chitpore Road; and on the East premises No. 100, Upper Chitpore Road.

Portion marked B on plan.—On the North and East portion of premises No. 104, Upper Chitpore Road; on the South a public bye-lane; and on the West Upper Chitpore Road.

Plans and specifications of the land are filed in the office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 6th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz, for widening the filled up drain connecting Williams' Lane with Old Bytakhana Bazar Road, it is hereby declared that for the above purpose pieces of land, Nos. 19 and 20 Scott's Lane, and No. 1, Williams' Lane in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 2 cottahs 12 chittacks and 22 square feet only, are required.

The boundaries of the lands are as follow :—

Portion marked A on plan.—On the North portion of No. 20, Scott's Lane; on the South a public filled up drain; on the East Old Bytakhana Bazar Road; and on the West a passage.

Portion marked B on plan.—On the North portions of No. 1, Williams' Lane and No. 19, Scott's Lane; on the South a public filled up drain; on the East portion of No. 19, Scott's Lane; and on the West Williams' Lane.

A plan and specifications of the lands are filed in the office of the Municipal Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 7th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Dacca Municipality for a public purpose, viz., for the improvement of the trench for the suction pipe for the use of the water works in the town of Dacca, station Lalbag, zillah Dacca, it is hereby declared that for the above purpose pieces of lands measuring, more or less, 12 cottahs and 8 dhoors of standard measurement, are required. The pieces of lands are bounded as follows :—

Plot No. I.—On the North by the main road; on the South by the foreshore of the river Boorigunga; on the East by the trench of the suction pipe; and on the West by the land of Baboo Manick Chand Saha and of Rahimuddi Meah.

Plot No. II.—On the North by the main road and the land of Basanta Lall and Hemanta Lall Dobe; on the South by the foreshore of the river; on the East by the land of Basanta Lall and Hemanta Lall Dobe; and on the West by the trench of the suction pipe.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 7th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for a new road from Banerjee's Lane to Amherst Street, it is hereby declared that for the above purpose pieces of land Nos. 172, Bowbazar Street, 14-1, 5, 48-2, 58 and 54, Choonapooker Lane, 4, Nitaie Baboo's Lane, and 150, Amherst Street, in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 9 cottahs 1 chittack and 36 square feet only, are required.

The boundaries of the lands are as follows—

Portion marked A on plan.—On the North partly premises No. 53, Choonapooker Lane and partly Choonapooker Lane; on the South partly Choonapooker Lane and partly premises No. 55, Choonapooker Lane, portion of premises No. 54, Choonapooker Lane and portion of premises No. 172, Bowbazar Street; on the East Choonapooker Lane; and on the West partly portion of premises No. 54, Choonapooker Lane and partly Banerjee's Lane.

Portion marked B on plan.—On the North portion of premises No. 48-2, Choonapooker Lane; and on the South, East, and West Choonapooker Lane.

Portion marked C on plan.—On the North and East portion of premises No. 15, Choonapooker Lane; and on the South and West Choonapooker Lane.

Portion marked D on plan.—On the North and East public filled up drains; on the South No. 14-1, Choonapooker Lane; and on the West Choonapooker Lane.

Portion marked E on plan.—On the North portions of premises Nos. 5 and 4, Nitaie Baboo's Lane; on the East Nitaie Baboo's Lane; and on the West a public filled up drain.

Portion marked F on plan—On the North and South premises No. 150, Amherst Street; on the East Amherst Street; and on the West Nitaie Baboo's Lane.

A plan and estimates of the land to be required are in the office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 7th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for the construction of a dhobikhana, it is hereby declared that for the above purpose a piece of land No. 3, Woolfutbagan Road, Dihi Punchannogram, district 24-Pergunnahs, measuring, more or less, 5 bigahs and 14 cottahs only, are required.

The boundaries of the land are as follows :—

On the North a passage; on the South portion of No. 3, Woolfutbagan Road; on the East partly a public latrine and partly No. 283, Lower Circular Road; and on the West Woolfutbagan Road.

A plan and estimates of the land to be acquired are in the office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 8th February 1890.—Mr. L. P. Shirres, Joint-Magistrate, is appointed to be Vice-Chairman of the District Road Committee of Lohardugga, *vice* Mr. G. W. Place, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 12, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Annual assessment.	Upset price.	Boundaries.	Remarks.
				B. K. CH.	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahalispara in Bartoil.	Mohamedshahye.	31 7 14	12 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Banesh Chandra Sarkar of Belgachi and dwelling-house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi ..	Aujongachi .	Taragooniah	394 1 10	93 0 0	3,936 11 0	West of the dwelling-houses of Chuni Sheikh and Nabin Mandal Ghose and others, ryots of the semindars of Chitna; north of the nij-jote lands of the aforesaid semindars; east of the confines of Khairpur; south of the nij-jote lands of the aforesaid semindars.	Mourashi jote of Banesh Chandra Sarkar of Belgachi.
3	Dak Adda ...	Kulberia ...	Plassey ...	1 4 8	2 1 6	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Panchanan Rai; west of jote lands of Bani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. Bose, for Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Town Khas Mehal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 3rd day of March 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Khas Tehsil Office, Town Circle.

Serial No.	No. of tenures in register No. I.	Names of tenures and their situation.	Annual rental.		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cess.	Rent.	Cess.	Total.	
		Thana town mouzah Bakalya, mehal Noabad.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	887	20134/559 Taluq Manindra Chandra Ghose and others.	3,373 6 0	226 9 0	843 0 0	56 11 0	899 11 0	
		Mouzah ditto, thana ditto.						
2	895A	20134/559(क) Taluq Khetra Moni Dasi and others.	1,135 11 9	44 8 0	284 0 0	11 1 0	295 1 0	The entire taluqs will be sold.
		Thana Fatikchir, mouzah Jouskhala, mehal Noabad.						
3	4818	23678/568 Taluq Obedar Rahaman Khan	2,844 0	102 9 0	693 0 0	5 5 9	698 5 9	

Chittagong, the 14th January 1890. C. H. ALLEN, for Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Bajitpur.	2,124 4 7	.....	Share No. 1, 3as. 3g. 2a. 16k.	Shital Nath Bhanga and others	420 2 8	.....	23 8 0
127-1	Kismut pergunnah Bhaluka	14,943 15 8	.....	Share No. 1, 4g. 13-8-8-1	Grijanath Ray Chowdhury and others	284 13 5	.....	31 10 5
159-4	Kismut Ramdanga, pergunnah Sarparajpur.	549 13 8	.....	Share No. 4, 2as. ...	Haran Chandra Majumdar and others.	68 11 8	.....	13 3 3
170-2	Kismut pergunnah Sillimabad.	5,784 6 6	.....	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 9½	.....	310 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banameh Mahadev Mushopadhya.	10,768 0 1½	.....	Residue share; Hisya 2s. 13g. 1kr. 1kt.	Hara Sundari Chaudhurani and others.	8,973 5 4½	.....	8,624 7 4½
					Monindra Nath Mukhopadhya and others.	1,794 10 9	.....	725 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hyderabad Khachak Pitrush market.	688 5 4½	Entire estate.	.....	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	69 12 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen Chakla Nurpur Huranneesa.	708 9 11½	.....	Residue share	Husni Khanam and others.	261 13 6½	.....	78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	.....	Hisya 2g. 3kr. 3dt.	Durga Sunker Sen ...	5 7 9	.....	2 8 1
272	Pergunnah Shahebabad May Peshkash Dewani, Banameh Mirsa Hyderali.	533 5 4	.....	Residue share .. Hisya 1s. 11½g. ...	Rajendra Narain Bandapadhya.	133 5 1	.....	83 7 1
					Ditto ditto .	53 1 4	.....	32 9 9
335	Tuppeh Moheswardi, Banameh Saha Newaj Khan, Elahi Newaj Khan.	14,133 5 4½	.. ...	Hisya 15g. 1kr. 1kt. 6t Ananda Mohon, Hari Mohon and Krishna Mohon Das.	Ananda Mohon Das and others.	677 2 6	.....	192 3 9
392	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya Sa. Radha Madhav	1,452 9 1	. ....	Residue share .	Nanda Kumar Guha ..	425 6 1½	.....	150 11 6
393	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen hisya Sa Raj Kishore Sen.	1,452 9 1	.....	Ditto ..	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	145 8 7
534	Pergunnah Bhawal Jawar Naluakot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	544 0 0	.....	Ditto .	Joy Chandra Chaudhury and others.	74 15 9½	. ....	43 12 2½
				Hisya 1s Banga Chandra, Har Chandra Chakraverty	Banga Chandra Chakraverty and others.	34 0 0	.. ...	14 5 0½
				Hisya 9g. 2kr. 1kt Bramya Mayi Debya.	Brahmya Mayi Debya	16 4 8	.....	14 1 1
552	Pergunnah Mobaraz Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	384 6 9½	.....	74 12 2
562	Shahar Chandina May Peshkash Chandina, Maulv Abdul Ali	1,898 10 8	.....	Ditto ..	Protap Chandra Das and others.	664 8 2	.....	170 4 6
569	Pergunnah Bikrampur, taluq Ram Gunga Bosu	684 3 0	.....	Ditto	Sitamani and others	256 9 0	.....	95 0 0
4349	Pergunnah Patpashar, taluq Golam Hosen Unau dhuri.	930 3 11½	.....	Ditto ...	Amirannessa Khatoon, Manager for Maulvi Abdul Hye and others.	359 1 9	.....	86 15 11
				Hisya 1½s. Najbannessa and others.	Najbannessa and others.	27 3 5	.....	6 9 10
				Hisya 3s. 2g. 1kr. 1½kg. Hamidannessa and others.	Hamidannessa Khatoon and others.	181 12 2	.....	55 11 11
5349	Pergunnah Hasha Raja Ram Chandpuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	... ..	1 12 0	. ...
6551	Pergunnah Rajnagar, taluq Deb Prosad Ghosh.	642 3 1½	...	Residue share	Kala Chand Shaha and others.	535 1 8½	.....	40 1 5
8434	Char Bukulali	584 0 0	Entire estate.	.....	Pran Nath Pare and others	... ..	153 0 0	.....
8660	Tuppeh Amirabad Estate No. 234	760 4 1½	Ditto	.....	Abhaya Charan Das and Brojendra Kumar Kar Chaudhuri.	. ..	72 14 3	.....
9069	Char Fukurhati within Char Krishnapura.	519 0 0	Ditto .	. ....	Kripa Mayi Debya and others.	.....	7 2 0	.. .
9083	Mouzah Golara Baluchari within Char Jalua Kamta.	752 0 0	Ditto	.....	A. M. Bhoogy Shaheb, Receiver.	...	140 0 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	.....	Kailash Bashini and Bindhu Bashini Chaudhurani and others.	.....	299 0 0	...
9762	Pergunnah Burdakhat Char Delwarpur.	4,196 0 0	Ditto ..	.....	Joharuddin Hyder and others.	.....	1,052 0 0	... ..

Dacca Collectorate, the 8th February 1890.

L. HARE, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
		A. R P.	Rs.
98	Kismut Jot Kusturi, pergunnah Kotuali	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 27	1 Case, 373 in a diamond, C B below	Order ...	S. S. "Electrician."
,, 27	10 Crates, G H by S	Ditto ...	Ditto.
,, 27	1 Case, J M S D in a diamond, G A & Co. outside...	Ditto ...	Ditto.
,, 27	1 Case, L O C K E	Ditto ...	Ditto.
,, 27	2 Cases, S by 2 8 in a diamond, J below ...	Ditto ...	Ditto.
,, 27	3 Casks, 751 in a diamond, T top	Ditto ...	Ditto.
,, 27	11 Packages, W in a double triangle, D below ...	Ditto ...	Ditto.
,, 27	1 Case, P Co. in a diamond	Ditto ...	Ditto.
,, 27	1 Parcel, Messrs. Arakie Brothers, 1, Clive Row ...	Ditto ...	Ditto.
,, 27	1 Bundle sheet iron, B and N W P S, A S S O below	Ditto ...	Ditto.
,, 27	4 Bundle nail rod iron, 1 stroke	Ditto ...	Ditto.
,, 27	30 Drums, C M D in a diamond, G A & Co. outside...	Ditto ...	Ditto.
,, 29	3 Cases, 200 in a diamond, C B & Co. outside ...	Ditto ...	S. S. "City of Canterbury."
,, 29	1 Case, B B in a diamond, J M R outside, Akyab below.	Ditto ...	Ditto.
,, 29	1 Case, 14 by 3797 in a diamond	Ditto ...	Ditto.
,, 29	1 Case, L O C K E	Ditto ...	Ditto.
,, 29	1 Case, 500 in a diamond, C B & Co. outside ...	Ditto ...	Ditto.
,, 29	5 Cases, M in a triangle, J S top	Ditto ...	Ditto.
,, 29	4 Casks, 272 in a diamond, N P and G outside ...	Ditto ...	Ditto.
,, 29	1 Keg, A B Rivers, or no mark	Ditto ...	Ditto.
,, 29	3 Kegs, no mark	Ditto ...	Ditto.
,, 29	20 Bales, P in diamond, C H outside	Ditto ...	Ditto.
,, 29	20 Casks, W L in a diamond, C below	Ditto ...	Ditto.
,, 29	11 Packages, W in a double triangle, D below ...	Ditto ...	Ditto.
,, 29	1 Case, 563 in a diamond, W below	Ditto ...	Ditto.
,, 29	2 Cases, W L	Ditto ...	Ditto.
,, 29	1 Case, H. S. Thomson, Esq., care of Messrs. Octavius Steel & Co.	Addressed ...	Ditto.
,, 29	28 Packages, no mark	Order ...	Ditto.
,, 29	1 Bundle hoop iron, H M & Co. or no mark ...	Ditto ...	Ditto.
,, 29	4 Cases, H C in a triangle	Ditto ...	S. S. "Niobe."

Port Commrs.' Office, Calcutta, the 8th February 1890. (3527—1) G. H. SIMMONS, Vice-Chairman.

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 31st January 1890.

Particulars.	3½ per cent. transfer loan of 1853-54.	4 per cent. loans							4½ per cent. loans				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	Grand Total.
		Of 1832-33.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879. 4½ per cent. portion.	Tota			
Balance of 15th January 1890 ...	54,700	11,29,387	25,24,900	2,48,63,200	1,05,20,900	3,95,47,000	1,99,33,900	9,85,19,287	39,500	71,48,000	11,08,75,600	11,80,63,100	1,33,800	32,200	21,68,03,087
ADD—															
Amount enfaced at Madras between 16th and 31st January 1890	...	.....	.....	.	.....	.....	.....	.....	.....	.....	....	.....	.. ...	. ..	.....
Amount enfaced at Bombay between 16th and 31st January 1890	.....	.....	.....	25,000	1,50,000	.....	.....	1,75,000	.....	...	.....	.....	.....	.....	1,75,000
Amount enfaced at Calcutta between 16th and 31st January 1890	.....	.....	1,000	1,000	6,900	87,000	.....	95,900	.. ...	1,000	.....	1,000	.....	.....	96,900
	54,700	11,29,387	25,25,900	2,48,89,200	1,06,77,800	3,96,34,000	1,99,33,900	9,87,90,187	39,500	71,49,000	11,08,75,600	11,80,64,100	1,33,800	32,200	21,70,74,987
DEDUCT—															
Amount written off in the London registers	.....	.....	.....	43,200	6,000	1,61,500	57,200	2,67,900	..	1,000	16,000	17,000	.....	.....	2,84,900
Balance on 31st January 1890 ...	54,700	11,29,387	25,25,900	2,48,45,000	1,06,71,800	3,94,72,500	1,98,76,700	9,85,22,287	39 500	71,48,000	11,08,59,600	11,80,47,100	1,33,800	32,200	21,67,90,087

NOTE.—From 9th June 1867 to 30th Nov. 1889—Enfaced from India 6,163 lakhs; re-transferred from London 5,325 lakhs.

,,	1st Dec. 1889	,,	15th Dec.	,,	,,	,,	,,	12	,,	,,	,,	,,	22 ,,
,,	16th ,,	,,	31st ,,	,,	,,	,,	,,	9	,,	,,	,,	,,	11 ,,
,,	1st Jan. 1890	,,	15th Jan. 1890	,,	,,	,,	,,	5	,,	,,	,,	,,	21 ,,
,,	16th ,,	,,	,, 31st ,,	,,	,,	,,	,,	3	,,	,,	,,	,,	3 ,,
								6,192					5,382
								5,382					

Balance against India ... 810 lakhs.

PUBLIC DEBT OFFICE, BANK OF BENGAL,
Calcutta, the 5th February 1890.

(3521—1)

W. D. CRUICKSHANK,
Secretary and Treasurer

District Charitable Society.

Statement of Receipts and Expenditure for the year ended 31st December 1889.

		Rs. A. P.	Rs. A. P.
Balance	Central Office	664 5 0	
	District and other offices	1,035 11 1	1,702 0 1
Subscriptions	Government	14,400 0 0	
	Port Commissioners	2,400 0 0	
	Calcutta Corporation	1,200 0 0	
	Public	12,273 0 0	30,273 0 0
Donations	Public	.....	4,827 13 0
Allowance for Establishment	Government	3,000 0 0	
	Trust Fund	840 0 0	3,840 0 0
Alms House proceeds		.....	277 2 8
Miscellaneous Account		.....	8 6 7
Interest on Invested Funds		.....	680 0 0
Interest, etc., on Trust Funds, as per Statement A		.....	41,474 12 4
Deposits and Advances		.....	2,758 14 0
Government Grant for Leper Asylum Medicines		.....	100 0 0
Government Grant for Leper Asylum Repairs		.....	345 2 6
*District Offices.**			
Donations		1,030 1 5	
Congregational Collections		4,328 7 2	5,358 8 7
Overdraft in Bank of Bengal on 31st December 1889		.....	13,027 6 3
	Total	.....	1,06,168 1 9

		Rs. A. P.	Rs. A. P.
Overdraft in Bank of Bengal on 31st December 1888		.....	8,972 1 7
Relief afforded.			
District Committees	General Fund	14,512 12 9	
	Trust Funds as per Statement A	4,300 5 4	18,813 2 1
Native Committee	General Fund	3,031 8 0	
	Trust Funds as per Statement A	15,090 14 3	18,122 6 3
Central Office	General Fund	123 0 0	
	Trust Funds as per Statement A	9,812 0 0	
	Schooling fees	675 2 0	10,629 2 0
Commissioner of Police	Casual relief	.....	4,974 1 0
Alms House	Establishment	4,524 8 0	
	Dieting	11,901 4 0	
	Contingencies, taxes, &c.	2,959 4 3	19,085 8 3
Leper Asylum	Establishment	1,856 0 0	
	Dieting	5,187 8 0	
	Contingencies, taxes, &c.	2,011 13 0	8,975 5 0
Charges—General.			
Central Office	Establishment, auditing fees, &c.	6,336 15 2	
	Rent and contingencies	1,009 2 3	
	Printing and advertising	960 3 9	8,306 5 2
District and Native Committees	Establishment	2,190 11 0	
	Contingencies	459 0 6	2,649 11 6
Trust Funds	Charges as per Statement A	.....	1,131 6 1
Interest on Overdraft		.....	504 2 9
Deposits and Advances		.....	2,457 11 11
Balance	Central Office	107 4 3	
	District and other offices	1,348 13 11	1,456 2 2
	Total	...	1,06,168 1 9

* These sums were received direct and retained by the District Committee and were spent by them in local relief, together with the grants from the Central Office, under the rules of the Society.

Examined and found correct,

CALCUTTA, *The 24th January* 1890.

K. MALLIKA, *Accountant.*

A. F. SIMSON, C.A., *Auditor.*

PATRICK MCGUIRE, *Secretary.*

District Charitable Society.

STATEMENT A.

Abstract Accounts of the Trust Funds for the year ended 31st December 1889.

No.	Head of Account.	Opening balance.	Receipts.	Total.	Payments.					Closing balance.	Total.
					Through Central Office.	Through District Committees.	Through the Native Committee.	Transferred to the General Fund for general purposes.	Charges.		
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Lady William Bentinck's Fund	155 9 6	522 10 10	678 4 4	.....	538 5 4	.....	.....	1 4 10	138 10 2	678 4 4
2	Dwarkanath Tagore's Fund	.....	4,120 0 0	4,120 0 0	1,678 0 0	234 0 0	.....	2,008 0 0	.....	.....	4,120 0 0
3	Maria English's Charity	.....	2,868 0 0	2,868 0 0	848 0 0	.....	.....	1,789 5 2	230 10 10	.....	2,868 0 0
4	Lokenath Bose's Fund	30 14 2	120 0 0	150 14 2	122 0 0	.....	.....	.....	0 4 10	28 9 4	150 14 2
5	Prince Jamiruddin's Fund	2,746 11 1	10,737 14 0	12,984 9 1	.....	3,528 0 0	7,012 0 0	.....	266 13 4†	2,177 11 9	12,984 9 1
6	Radha Madhub Banerjee's Fund	267 9 4	441 15 1	709 8 5	.....	.....	434 0 0	.....	1 3 0	274 5 5	709 8 5
7	Rama Sundari Dasi's Fund	.....	20 0 0	20 0 0	26 0 0	.....	.....	.....	0 0 10	—6 0 10	20 0 0
8	Chumutkar Krishna Ghose's Fund	45 6 0	24 0 0	69 6 0	22 0 0	.....	.....	.....	0 1 0	47 5 0	69 6 0
9	Eshan Chundra Bose's Fund	.....	24 0 0	24 0 0	.....	.....	24 0 0	.....	0 1 0	—0 1 0	24 0 0
10	Massey Baba John's Estate	.....	3,600 4 11	3,600 4 11	.....	.....	.....	3,600 4 11	.....	.....	3,600 4 11
11	Rose Ann Greenway's Fund	.....	240 0 0	240 0 0	.....	.....	.....	237 9 6	2 6 6	.....	240 0 0
12	Sassoon Fund	.....	395 0 0	395 0 0	.....	.....	.....	394 0 2	0 15 10	.....	395 0 0
13	Prosono Coomar Tagore's Fund	.....	424 0 0	424 0 0	.....	.....	.....	422 15 0	1 1 0	.....	424 0 0
14	Gopal Lal Tagore's Fund	296 6 4	440 0 0	736 6 4	.....	.....	456 0 0	.....	1 1 8	279 4 8	736 6 4
15	Cheke Fund	782 3 4	460 0 0	1,242 3 4	372 0 0	.....	.....	.....	1 2 4	869 1 0	1,242 3 4
16	Komul Lochun Bysack's Bequest	382 13 5	422 1 6	804 14 11	.....	.....	408 0 0	.....	5 5 5	391 9 6	804 14 11
17	Famine Relief Fund	690 14 6	2,440 0 0	3,130 14 6	.....	.....	1,178 0 0	1,220 0 0	6 1 8	726 12 10	3,130 14 6
18	Bhogobutty Churn Law's Fund	57 14 4	2 0 0 0	257 14 4	.....	.....	122 0 0	66 10 8	0 8 0	58 11 8	257 14 4
19	Ram Gopal Ghose's Fund	237 1 6	244 0 0	481 1 6	.....	.....	240 0 0	.....	0 9 10	240 7 8	481 1 6
20	Schorn Fund	.....	120 0 0	120 0 0	.....	.....	.....	119 11 2	0 4 10	.....	120 0 0
21	Albert Fund	621 5 2	788 0 0	1,409 5 2	.....	.....	793 0 0	.....	1 15 6	614 5 8	1,409 5 2
22	Kali Kissen Tagore's Fund	165 13 8	400 0 0	565 13 8	.....	.....	361 0 0	.....	1 0 0	203 13 8	565 13 8
23	Romanath Tagore's Fund	177 12 0	60 0 0	237 12 0	60 0 0	.....	.....	.....	0 2 4	177 9 8	237 12 0
24	Wedding Commemoration Fund	.....	320 0 0	320 0 0	319 0 0	.....	.....	.....	0 15 10	0 3 2	320 0 0
25	Greece Chunder Dutt's Fund	.....	200 0 0	200 0 0	.....	.....	.....	199 8 0	0 8 0	.....	200 0 0
26	Nina Forster's Fund	.....	842 8 0	842 8 0	.....	.....	.....	840 6 2	2 1 10	.....	842 8 0
27	Isabella Hennessy's Fund	.....	396 0 0	396 0 0	.....	.....	.....	395 0 2	0 15 10	.....	396 0 0
28	Gourmoni Dasi's Fund	287 5 8	240 0 0	527 5 8	.....	.....	240 0 0	.....	0 9 8	286 12 0	527 5 8
29	Ram Kanai Sen's Fund	32 7 1	28 0 0	60 7 1	.....	.....	24 0 0	.....	0 1 2	26 6 1	60 7 3
30	Kristodas Pal's Fund	751 15 7	420 0 0	1,171 15 7	.....	.....	354 0 0	.....	1 0 10	816 14 9	1,171 15 7
31	Bagala Sundari Debi's Fund	27 3 2	24 6 0	51 9 2	.....	.....	24 0 0	.....	0 8 0	27 1 2	51 9 2
32	Shurnamoi Dasi's Fund	4 9 5	24 0 0	28 9 5	.....	.....	24 0 0	.....	0 0 10	4 8 7	28 9 5
33	Cones' Fund	85 14 9	600 0 0	633 14 9	549 0 0	.....	.....	.....	.....	84 14 9	633 14 9
34	Raja Doorga Churn Law's Fund	8 12 0	360 0 0	368 12 0	120 0 0	.....	240 0 0	.....	0 14 4	7 13 8	368 12 0
35	Daby Churn Law's Fund	.....	40 0 0	40 0 0	.....	.....	.....	39 14 4	0 1 8	.....	40 0 0
36	Woomesh Chunder Mitter's Fund	.....	48 0 0	48 0 0	.....	.....	48 0 0	.....	0 2 0	—0 2 0	48 0 0
37	Mrs. Mary Cook's Fund	.....	40 0 0	40 0 0	.....	.....	.....	39 14 4	0 1 8	.....	40 0 0
38	Maharaja Kumul Krishna's Charity	252 8 0	360 0 0	592 8 0	.....	.....	345 0 0	.....	.....	247 8 0	592 8 0
39	Maharaja Sir J. M. Tagore's Charity	23 0 0	500 0 0	523 0 0	.....	.....	492 0 0	.....	.....	31 0 0	523 0 0
40	Raja Rajendra Mullick's Charity	18 0 0	900 0 0	918 0 0	.....	.....	1,188 0 0	.....	.....	—270 0 0	918 0 0
41	Sm. Kumudini Dasi's Charity	221 0 0	300 0 0	521 0 0	.....	.....	303 0 0	.....	.....	218 0 0	521 0 0
42	Native Committee's Reserve Fund	240 11 9	620 0 0*	860 11 9	.....	.....	770 14 3	.....	0 4 10	89 8 8	860 11 9
43	Mutiny Relief Fund	19 1 0	6,100 0 0	6,119 1 0	5,496 0 0	.....	.....	.....	600 0 0‡	23 1 0	6,119 1 0
	Total	8,058 14 11	41,474 12 4	49,533 11 3	9,812 0 0	4,300 5 4	15,090 14 3	11,373 3 7	1,131 6 1	7,825 14 0	49,533 11 3

* Includes Rs. 500 transferred from "Donation" account.

† With allowance to District Charitable Society at Rs. 20 per month.
‡ Allowance to District Charitable Society at Rs. 50 per month.

Examined and found correct.

CALCUTTA,
The 24th January 1890.

K. MALLIKA,
Accountant.

A. F. SIMSON, C.A.,
Auditor.

PATRICK McGUIRE.
Secretary.

District Charitable Society.

Abstract of the Accounts of the District and Native Committees for 1889.

District Agency.	Opening balance.	Received from Central Office	Congregational collections.	Donations and sums received direct.	Total.	Relief.			Establishment.	Contingencies.	Balances remitted to the Central Office, &c.	Closing balance.	Total.
						Pensions.	Casual relief.	Schooling fees.					
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
St. John's District	51 12 9	1,455 0 0	596 2 6	98 1 0	2,201 0 3	1,209 0 0	596 1 9	204 0 0	129 0 0	0 2 0	.....	80 13 6	2,201 0 3
St. James' ,, ...	153 2 7	3,306 0 0	390 13 8	396 14 10	4,236 15 1	2,424 0 0	1,149 8 10	353 1 0	140 0 0	.....	.....	171 2 3	4,236 15 1
St. Thomas' ,, ...	13 15 3	1,297 12 0	250 12 0	445 14 1	1,998 5 4	625 8 0	1,188 6 0	30 0 0	87 6 0	0 2 0	.....	97 5 4	1,998 5 4
Old Church ,, ...	129 11 2	6,686 13 0	1,653 1 3	.....	8,469 9 5	5,885 0 0	1,896 12 0	300 0 0	379 7 0	12 4 0	.....	296 2 5	8,467 9 5
St. Paul's Mission	3 0 0	1,020 0 0	300 0 0	.....	1,323 0 0	596 0 0	705 13 9	.....	20 0 0	.....	.....	1 2 3	1,323 0 0
St. Andrew's Committee	0 5 0	.....	531 11 5	10 0 0	542 0 6	422 0 0	110 0 6	.....	.....	.....	.....	.....	542 0 6
Howrah District	0 3 11	744 0 0	615 14 3	79 3 6	1,439 5 8	916 0 0	401 5 11	.....	20 0 0	20 0 0	.....	63 15 9	1,439 5 8
Commissioner of Police	198 0 0	2,700 0 0	.....	.....	2,893 0 0	....	2,178 13 0	.....	600 0 0	75 0 0	.....	39 8 0	2,893 0 0
Native Committee	470 6 2	19,540 8 6	.....	.....	20,011 0 2	17,597 8 0	170 14 3	354 0 0	615 4 0	348 8 6	214 0 0	516 13 5	20,011 0 2
Total ...	1,015 10 10	36,740 1 0	4,338 7 2	1,030 1 5	43,114 4 5	29,676 0 0	8,067 12 0	1,240 4 0	2,190 11 0	459 0 6	214 0 0	1,566 8 11	43,114 4 5

District Committees.

	Rs. A. P.
Pensions	12,078 8 0
Casual relief	5,718 0 9
Schooling fees...	886 4 0
Total ...	18,682 12 9

Native Committees.

	Rs. A. P.
Pensions	17,597 8 0
Casual relief	170 14 3
Schooling fees...	354 0 0
Total ...	18,122 6 3

Commissioner of Police.

	Rs. A. P.
Pecuniary relief as above	2,178 13 0
Paid by Central Office for rations, railway passes, &c.	2,118 14 0
Total ...	4,297 11 0

N.B.—In addition to the above, the Chaplain of Barrackpore received and spent a sum of Rs. 136-5-4, making a total of Rs. 18,613-2-1, relief through District Committees.

CALCUTTA,
The 23rd January 1890.

K. MALLIKA,
Accountant.

PATRICK McGUIRE,
Secretary.

Statement of the Affairs of the Bank of Bengal for the week ending 4th February 1890.

LIABILITIES.				ASSETS.			
	Rs.	A.	P.		Rs.	A.	P.
Capital paid up	2,00,00,000	0	0	Government Securities	15,23,485	0	0
Reserve Fund	58,00,000	0	0	Other authorized Investments	76,59,946	0	0
Public Deposits at Head Office ... ... Rs. 92,71,700 8 1				Loans on Government and other authorised Securities	1,54,62,515	1	8
Ditto ditto at Branches ,, 97,80,004 9 10	1,90,51,705	1	11	Accounts of credit on ditto ditto	1 06,39,650	14	9
Other Deposits at Head Office and Branches	3,01,01,522	12	11	Bills discounted and purchased	2,03,13,013	8	5
Bank Post Bills, &c.	4,80,332	11	9	Balances with other Banks	10,00,378	15	4
Sundries	9,03,627	5	4	Bullion	2,43,492	4	0
				Dead Stock	12,28.371	9	2
				Stamps	13,692	1	0
				Sundries	3,09,305	11	6
					5,83,93,851	1	10
				Cash and Currency Notes at Head Office ... Rs. 62,69,320 4 8			
				Cash and Currency Notes at Branches ... ... ,, 1,17,34,016 9 5	1,80,03,336	14	1
Rupees ...	7,63,97,187	15	11	Rupees ...	7,63,97,187	15	11

BANK OF BENGAL.
Calcutta, 6th February 1890.

R. L. BIRD, Chief Acctt
Rate for Demand Loans 9 per cent.
Percentage 35·5.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.
(3519—1)

Notices of deaths sent to the Administrator-General of Bengal under Section 64 of Act II of 1874.

Name of deceased.	Place of death.	Date of death.	By whom and when death reported.	REMARKS.
J. Rogers	Giulkera Hospital of the Bengal Nagpore Railway.	10th Dec. 1889 ...	Deputy Commissioner of Singbhoom, on the 20th December 1889.	Intestate. Assets not known. No application for administration.
Mrs. Sarah Valentine Chapman.	Kumaon	30th ,, ,, ...	Assistant Commissioner, Naini Tal, on the 11th January 1890.	Intestate. No property left. Next-of-kin Mrs. Harris and other children.
J. H. Young, Engineer, S. S. *Marwari*.	On the river in Assam was drowned.	18th Nov. ,, ...	Officiating Judge, Assam Valley District, on the 9th January 1890.	Intestate. Assets about Rs. 70-14. Next-of-kin father, in Glasgow.
Epiphan Seistan	Rai Ghata, district Seharunpur.	3rd Sept. ,, ...	District Judge of Agra, on the 9th January 1890.	Will left. F. Seistan, nephew and adopted son, has applied for letters of administration to the Court of the District Judge, Agra. Citation issued. Assets Rs. 14,490.
Henry LeMesurier	Darjeeling	28th Dec. ,, ...	Officiating District Judge of Dinagepore, on the 22nd January 1890.	Intestate. Assets about Rs. 254-13-6. Father in Canada. Nearest relative in India Mr. G. G. LeMesurier, Poomong, Darjeeling.
Dr. J. B. Briscoe	Ditto	12th Jan. 1890 ...	Officiating District Judge of Dinagepore, on the 23rd January 1890.	Will left. Assets about Rs. 9,000. Widow sole executrix under the will has applied for probate to the Court of the Deputy Commissioner of Darjeeling.
E. Gordon Stoker, late Manager of the Budderpore Tea Estate, Cachar.	Kingston, Ireland ...	7th Dec. 1889 ...	Deputy Commissioner of Cachar, on the 21st January 1890.	Will left in England. Property of small value in the possession of Mr. W. L. Clark, Cachar. No application for administration
Arthur Arnel, Driver, North-Western Railway.	Sibi	13th ,, ,, ...	Political Agent, Thal Chotiali, on the 27th January 1890.	Intestate. Property not known. No application for administration.

L. P. D. BROUGHTON,
Administrator-General of Bengal.

1, COUNCIL HOUSE STREET; CALCUTTA, *The 7th February* 1890.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Bahramghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Treasure Trove.

IT is hereby notified, under section 5 of the Indian Treasure Trove Act (VI of 1878), that on or about the 20th April 1889, the undermentioned articles, valued in the aggregate at Rs. 100, were found by Parai Suppan, son of Kasainadan, and Parai Karuppan, son of Suppan, buried in a wet field No. 110C, belonging to one Kuppusami Aiyar of Bramadesam village in Ambasamudram taluq, Tinnevelly district, in the Presidency of Madras :—

Description of articles.	Approximate value.
	Rs.
Four copper idols	100

All persons claiming the said treasure or any part thereof are hereby required to appear personally or by duly authorized agents before the Collector of Tinnevelly, at his office at Tinnevelly, on the 16th day of June 1890, in order to the matter being enquired into and determined in accordance with the provisions of the Act.

J. H. A TREMENHEERE, Acting Collector.

Road Cess Notification.

DISTRICT BALASORE.

IT is hereby notified for general information that, under section 46 of Act III (B.C.) of 1885, the District Board of Balasore have, by a resolution of their meeting held on the 1st February 1890, determined to levy road cess for the ensuing cess year 1890-91 at the maximum rate of six pies in the rupee on the annual value of lands.

R. CORNISH, Chairman, District Board, Balasore.

Road Cess Notifiction.

DISTRICT CHITTAGONG.

IT is hereby notified for general information that, under section 46 of Act III (B.C.) of 1885, the District Board of Chittagong have determined that the road cess for the next year 1890-91 should be levied at the maximum rate, viz., one-half anna on each rupee of the annual value of lands.

C. P. CASPERSZ, Chairman.

Chittagong District Board's Office, the 31st January 1890.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, No. III (B.C.) of 1885 the District Board of Purneah, by a resolution of their meeting of the 3rd February 1890, have determined to levy road cess for the year 1890-91 at the full rate, *i.e.*, 2 pice per rupee on the annual value of land, &c.

SURENDRA NATH MOZUMDAR, Vice-Chairman, District Board.

Purneah District Board's Office, the 5th February 1890.

Notice.

IT is hereby notified for general information that the District Board of Mymensingh has, at a Special Meeting held on the 8th ultimo, determined, under section 46 of the Bengal Local Self-Government Act III of 1885, the road cess in the district to be levied during the ensuing year 1890-91 at the maximum rate of one-half anna per rupee, on the annual value of lands and on the annual net profits from the mines, quarries, tramways, railways and other immoveable property.

R. C. DUTT, Chairman

Mymensingh District Board's Office, the 8th February 1890.

Notification.

THE Zemindari Dâk Tax in the district of Sarun, for the year 1890-91, is fixed at the rate of 12 annas per cent. per annum on the sudder jamma of estates paying a revenue amounting to Rs. 50 and over.

The amount due for each estate is payable in two instalments—the first being due on the 28th March 1890, and the second on the 2 th September 1890.

B. G. GEIDT, For Magistrate.

Notice.

MR. R L. BISS, Chief Accountant and Deputy Secretary, having retired from the Bank's service, the Directors have been pleased to make the following change in the establishment :—

Mr. F. T. Lewis, Superintendent, Public Debt Office, to officiate as Chief Accountant and Deputy Secretary.

By order of the Directors,

W. D. CRUICKSHANK,
(3525—1) Secretary and Treasurer.

Administrator-General's Office.

NOTICE.

ADMITTED claims against the undermentioned estates are payable on Tuesday and Friday as usual—

ESTATES.	Claims or dividends	Rate of dividend per rupee.
* Egerton, W. H., late Assistant-Comptroller of Burma.	Claims in full.	
Gilbanks, J. C., late of Rangoon in Burmah, Barrister-at-Law.	1st dividend at 6 annas 5 85 pie.	
Taylor, John, late an Insurance Agent, carrying on business at No. 19, Radha Bazar.	1st dividend at 3 annas 10 25 pie.	

N. B.—The surplus of the estate marked * is carried over to the account for the persons interested, and no other claims against the estate can be admitted. Persons presenting receipts for payment are requested at the same time to produce the registry certificates which have been granted to them from this office.

L. P. D BROUGHTON, Administrator-General.
Calcutta, the 10th February 1890. (3531—1)

SEALED tenders will be received by the undersigned for the undermentioned works up to 3 P.M., on Saturday, the 15th February 1890—

Description of works or supplies of materials.	Value of works or materials to be supplied.	Names of roads.	Date of commencement of works or deliveries of materials.	Date of completion of works or deliveries of materials.	Amount of earnest money to accompany each tender in currency notes.	Deposit money required to be paid by successful tenderers.
	Rs.		1890.	1890.	Rs.	Rs.
90,000 c. ft. metal of half vitrified brick jhama.	8,850	Kishnaghur and Buggoola road.	20th February.	31st May	200	885
40,000 c. ft. metal of half vitrified brick jhama.	3,800	Ranaghat and Santipore road	Ditto ...	Ditto ...	100	380
20,000 c. ft. metal of half vitrified brick jhama.	2,100	Khoksa Railway station to Khoksa Bazar road.	Ditto ...	Ditto ...	100	210

1. Prices of materials to be supplied will be payable after the expiration of the current year.
2. The undersigned does not bind himself to accept the lowest or any tender.
3. Thirty thousand cubic feet of the metal required for the Kishnaghur and Buggoola road to be of pugged clay.
4. All metal to be broken and stacked on the roads in accordance with the standard specification for local works, Presidency Division.
5. For further particulars apply to the office of the undersigned.

DWARKA NATH SARKAR, District Engineer, Nuddea,

Kishnaghur, District Engineer's Office, the 3rd February 1890. (3523—1)

NOTICE is hereby given that Mr. George Aitken Ormiston has been admitted a partner in our firm as from 1st January last.

MACKNIGHT, ANDERSON & Co.

Calcutta, 10th February 1890. (3524—1)

TARA PRASANNA GUHA, B.L., intends to apply for enrolment as a Vakeel of the High Court.

(3496—4)

LETTERS of Administration (with copy Will annexed) of the property and credits of Edward James Jones, late of Calcutta, Deputy Superintendent of the Geological Survey of India, deceased, have been granted by the High Court, Calcutta, to G. W. F. Buckland, Esq., of No. 1, Esplanade, West, Calcutta, as the Attorney of the Executor named in the Will of the deceased. All persons having claims against the deceased are requested to submit same to the Administrator before the 31st day of March next, after which date no claims will be admitted.

J. A. APCAR, Attorney.

Calcutta, 17th January 1890. (3461—3)

NOTICE is hereby given that Mary Stephen, who obtained a decree *nisi* on the 23rd January 1890 in the High Court for dissolution of marriage against her husband S. S. Stephen, has revoked and cancelled the power-of-attorney which she executed in his favour, and that the said S. S. Stephen has no authority to act as her attorney in any matter whatsoever. Any payment of money therefore to the said S. S. Stephen on account of the said Mary Stephen will not be recognised.

GONESH CHUNDER CHUNDER, Attorney for Mary Stephen.

Calcutta, the 27th January 1890. (3494—3)

Notice.

IN continuation of notice, dated the 9th October 1889 published at page 1656, Part II of the *Calcutta Gazette* of 30th October 1889, regarding the Barque *Greverener*, it is further notified that the said vessel, with all her masts, sails, gear, and appurtenances which may be on board her on the 19th day of April 1890, will be sold by auction to the highest bidder on Saturday, the 19th of April 1890.

The sale will be held at the Port Office, Chittagong, and will commence at 3 P.M.

Terms—25 per cent. on fall of the hammer if desired by Receiver of Wrecks: the balance within a week of sale and before taking delivery. If the purchaser fails to pay the balance within seven days from date of sale, the vessel will be re-sold at his risk and expense. The vessel can be inspected at Chittagong by application to the Receiver of Wrecks.

R. GOOD, Receiver of Wrecks.

(3498—4)

In the Court of Baboo Ram Gopal Chaki, Roy Bahadur, Subordinate Judge of Backergunge.

EXECUTION CASE No. 14 OF 1890

Kashi Mani Chaudhurani, decree-holder, *versus* Mozaheruddin Mohammed Chaudhuri and others, judgment-debtors.

TO be sold the right, title, and interests of the undermentioned mortgaged property at 12 A. M. on the 19th day of February 1890 by the District Judge's Nazir, in the sale-house of the District Judge of Backergunge—

Schedule of Property.

7a 17*kg.* 1*kt.* and 12*tils* share of taluq Mohomed Shafi Chaudhuri, entered in the Backergunge Collectorate towji in No. 1628, pergunnah Bazoorgannadpur, and situated in Joár Ramna Bamna within station Mathária and sub-registry Bhandária. The annual sudder jumma of the above share is Rs. 9 5 9 7 10*a.* 9*p.* 15*kt.* and 4 *dimish*, belonging to judgment-debtors Hurannessa Khatun and Mamatajuddin Mohomed Chaudhuri by virtue of hebanamah and contract.

R. G. CHAKI, Sub-Judge.

(3518—1)

Stolen.

THE Government Promissory Note No 220972 of the 4 per cent of 1865 for Rs. 500, originally standing in the name of Modhu Sudhir Kowar, and last endorsed to Kedar Nath Majumdar, the proprietor, by whom it was never endorsed to any other person. Payment of the above note and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for issue of duplicates in favour of the proprietor after two years from date of last advertisement.

KEDAR NATH MAJUMDAR, Cooch Behar.

(3497—3)

Lost.

THE lower halves of the Government Promissory Notes Nos. 236782 and 236783 of the 4 per cent. loan of 1865 for Rs. 500 each, originally standing in the name of the Bank of Bengal, and last endorsed to General Dumber Shum Shere Jung Bahadur Rana, the proprietor, by whom it was never endorsed to any other person, having been lost, notice is hereby given that payment of the above notes and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, Calcutta, and that application is about to be made for the issue of a duplicate in favour of the proprietor. The public are cautioned against purchasing or otherwise dealing with the abovementioned securities.

RAKHAL CHUNDRA CHATTERJEE, Secretary to the Representative of the Government of Nepal.

78, Dhurumtola Street, the 6th February 1890.

(3520—3)

Currency Notes.

THE following Currency Note of the Calcutta Circle is stated to have been destroyed, and payment of its value has been claimed by the person whose name is placed against the number; any other person claiming a right to it is warned to communicate at once with the undersigned:—

Note wholly lost or destroyed.

Register number.	Number of Note.	Value.	Name of Claimant.
		Rs.	
H8 of 1890	$\frac{U}{56}$ 91840	100	Bhagwandas Khatri, Kooncha Sanjagi Ram, Lahore Gate, Delhi.

H. KERNE, Assistant Comptroller-General, in charge Paper Currency.

Paper Currency Department, 11th February 1890.

Notification.

TO be peremptorily sold pursuant to a decree and order of the Calcutta High Court, Original Civil Jurisdiction, made in suit No 285 of 1886 (wherein Nobokristo Seal is plaintiff and Rojooni Loll Bysack *alias* Rajendro Loll Bysack is defendant), and dated, respectively, the 5th of August 1886 and the 13th of July 1888, by the Registrar of the said Court in his sale-room in the Court-house, on Saturday, the 15th of March next, at the hour of 12 o'clock noon, the following properties.

Lot No. 1.—All that undivided half part or share of and in the upper-roomed brick-built messuage, tenement or dwelling-house, together with the piece or parcel of rent-free land or ground thereunto belonging, and on part whereof the same is erected and built, containing by estimation eight cottahs, be the same a little more or less, situate, lying, and being No. 29, Churruckdangah Street, Sootanooty, in the town of Calcutta, and bounded on the north by Churruckdangah Street, and on the east, west, and south by the garden belonging to the estate of the late Prosono Coomar Tagore.

Lot No. 2.—All that undivided half part or share of and in the garden and piece or parcel of land No 99, Manicktollah Road, in zillah 24-Pergunnahs, sub-district Sealdah, thana Manicktollah, being holding No. 381 in Grand Division 2, Sub-division 11, Dehi Punchannogram, containing by estimation thirteen bighas, more or less, and in respect of which the yearly rent of Rs. 27-4 is payable to the Collector of 24-Pergunnahs, and bounded on the north by the garden belonging to Benudbehary Shaw, on the south by the Manicktollah Street, on the east by the tenanted land belonging to the estate of the late Sreekristo Mullick, and on the west by the garden belonging to Gungapersaud Gangooly.

The abstract of title and the conditions of sale may be seen at the Office of the undersigned, or at the Office of Baboo Sitsnauth Doss, Attorney for the plaintiff, on any day before the sale, and will be produced at the sale.

R. BELCHAMBERS, Registrar.

Calcutta, High Court, Original Side, the 24th day of January 1890. (3526—1)

Notification.

TO be peremptorily sold by the Registrar of the High Court of Judicature at Fort William in Bengal, in its Ordinary Original Civil Jurisdiction, on Saturday, the 15th day of February 1890, at the hour of 12 o'clock at noon, pursuant to a decree dated the 25th of March 1887, and the orders dated, respectively, the 18th February 1888 and the 14th of January 1889, of the said Court, made in suit No. 417 of 1885 (wherein Kumar Nilkrishna Deb and another are the plaintiffs and Sreemutty Unnopoorna Dabee is the defendant), the following property belonging to the said defendant Sreemutty Unnopoorna Dabee:—

All that brick-built messuage, tenement or dwelling-house, together with the piece or parcel of land thereunto belonging, and on part of which the same is erected and built, containing by estimation 6 cottahs, be the same a little more or less, situate at and being No. 32, Nimtollah Ghat Street, formerly No. 46, Nimtollah Ghat Street, in the town of Calcutta, and bounded on the north partly by the land of Gudadhur Gangooly and partly by Nimtollah Ghat Street; on the south by the land of Kally Byssack; on the east by a narrow lane leading out to Nimtollah Street which separates these premises from the house of Nilmony Banerjee; and on the west by the Government drain.

The abstract of title and conditions of sale may be seen at the Office of the Registrar, High Court, Original Jurisdiction, and at the Office of Messrs. Swinhoe and Chunder, Attorneys for the plaintiffs, any day before the sale and will be produced at the sale.

R BELCHAMBERS, Registrar.

Swinhoe and Chunder, plaintiffs' Attorneys.
Calcutta, High Court, Original Jurisdiction, the 8th February 1890. (3530—1)

In the Court of Baboo Shamboo Chandra Nag, Subordinate Judge of Hooghly, Third Court.

RENT EXECUTION CASE No. 58 of 1889.

Nabo Kristo Mookerjee, decree-holder, *versus* Dyal Nath Bhattacharjee and others, judgment-debtors.

THE advertised property of the above judgment-debtors will be put up to sale in the highest bid on the 10th day of March 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Hooghly, in the sale-room of the Court-house:—

Schedule of Property to be sold.

Two annas thirteen gundas one cowree one krantee share of lot Bundeipore, bearing towji No 77 of the Collectorate of Hooghly, situated in pergunnah Bundeipore, zillah Hooghly, sudder jumma of the whole 16 annas being Rs. 14,782-4-2, the upset value given by the decree-holder is Rs. (5,000), five thousand.

SHAMBOO CHANDRA NAG, Subordinate Judge.
Hooghly, the 7th February 1890. (3549—3)

Notice.

In the First Court of the Subordinate Judge of Midnapur.

EXECUTION CASE No. 164 OF 1889.

Sashi Lall Kur, decree-holder, *versus* Broja Das Dutta, judgment-debtor.

THE undermentioned property will be sold by public auction at the Court-house of the District Judge of Midnapur on Saturday, the 15th February 1890, at 12 o'clock, in execution of the decree passed by the Subordinate Judge of Midnapur for the realization of Rs. 7,319-3-0 obtained by a mortgage decree due from the debtor to the decree-holder:—

Schedule of property to be sold.

Lot I. Ten annas thirteen gundas two cowris and two crantis share of Mahul Ramchunderpur with its mouzas, within the police station of Shobong and sub-registry office Pingla, pergunnah Moyna Chour, bearing towji No. 1807, present towji No. 1250, and A Register No. 2466; Government revenue payable is Rs. 1,300-13-9, and the Government revenue of which ten annas thirteen gundas two cowris and two crantis share is Rs. 867-3-6.

DWARKANATH BHUTTACHARJEA, Subordinate Judge, First Court.

(3533—1)

Notice.

In the First Court of the Subordinate Judge of Midnapur.

EXECUTION CASE No. 10 OF 1890.

Bhuban Chandra Banerjea and Srimati Sukhoda Debi, decree-holders, *versus* Sridhar Charan Nandi, judgment-debtor.

THE undermentioned properties of the judgment-debtor will be sold in the above case by the Nazir of the District Judge's Court of Midnapur, in his sale office on Saturday, the 15th March 1890, at the hour of 12 A.M., for the realization of mortgage decree amounting to Rs. 5 357-1-3 by sale of properties Nos. 1 and 2, and Rs. 5,035-1 3 by sale of property No. 3.

Schedule of properties to be sold.

Lot II.—Two annas share out of six annas share of mehal Khirai, situate in pergunnah Moyna within the police station of Shobong and sub-registry office of Raj Bullabh, the present towji No. of which is 889 and A. Registry No. 1684, and the annual sudder jama of which two annas is Rs. 7 14 5*a* 6*g* 2*r* 2*cr*.

Lot III.—Four annas share out of six annas share of mehal Khirai, situate in pergunnah Moyna within the police station of Shobong and sub-registry office of Raj Bullabh, the present towji No. of which is 889 and A Registry No. 1684, and the Government revenue of which four annas is Rs. 1,489-4.

DWARKANATH BHUTTACHARJEA, Subordinate Judge, First Court. (3534—1)

Notice.

WANTED three Peshkars or Inspectors, on salaries of Rs. 30 per mensem, for settlement work in the Sonthal Pergunnahs. None need apply who have not a knowledge of plane-table, of compass-surveying and experience in settlement work. Applications with copies of certificates to be sent to the undersigned at once.

J. A. CRAVEN, Settlement Officer.
Damp Camp Deoghur, the 10th February 1890.

Notice.

WANTED a Record-keeper for the Maldah Collectorate on a salary of Rs 40 rising to Rs. 60 by biennial increments of Rs. 2.

No one need apply who has not had previous experience in a similar post. The selected candidate is to furnish security to the extent of Rs. 500, either in Government Promissory Notes or in cash.

Applications will be received up to 25th February next.

POORNO CHUNDRA CHATTERJEE,
Deputy Collector in charge.

Ramghur Tea Company, Limited.

THE Ordinary General Meeting of the Shareholders of this Company will be held in the Company's Registered Office, No. 16, Strand, on Friday, the 14th February, at noon.

MACKINNON, MACKENZIE & Co., Agents.
(3517—1)

Goosery Cotton Mills Company, "Limited"

THE Fifty-third Half-yearly General Meeting of Shareholders will be held at the Company's Registered Office, No. 104, Clive Street, on Monday, the 17th instant, at 12 noon, to receive the Directors' Report and Accounts for the half-year ended 31st December 1889, the declaration of the half-yearly dividend, and for such other business as may be brought forward.

The Share Register will be closed from this date to the 17th instant.

By order of the Directors,
D. McL. MORRISON, Secretary.
Calcutta, the 5th February 1890. (3516—1)

Dehra-Doon Tea Company, Limited.

NOTICE is hereby given that the Fifty-third Half-yearly Ordinary General Meeting of the Shareholders will be held at the Mussoorie Bank, Dehra, North-Western Provinces, on the 28th February 1890, at noon.

A. J. C. SEYMOUR, Offg. Secretary.
Dehra Doon, the 7th February 1890. (3528—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of BHUGWANJEE CURSONJEE, an insolvent.

On Thursday, the 2nd day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3504—2)

In the matter of SOORENDRO NATH SEN, an insolvent.

On Thursday, the 2nd day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

E. J. Fink, Attorney. (3505—2)

In the matter of GOPEE KANTO SEN, an insolvent.

On Friday, the 10th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

M. M. Chatterjee, Attorney. (3506—2)

In the matter of LEONTIUS BRIDGNELL NYSS, an insolvent.

On Monday, the 6th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3507—2)

In the matter of LEOZANDER and RAOUL QUILLET, insolvents.

On Saturday, the 11th day of January last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the 1st day of March next, and that the said insolvents do then attend to be examined before the said Court.

Dignam, Robinson and Sparkes, Attorneys (3508-2)

In the matter of THOMAS RICHARDSON FRENCH, an insolvent.

On Wednesday, the 29th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday the 1st day of March next, and that the said insolvent do then attend to be examined before the said Court.

C. G. Lewis, Attorney. (3509—2)

Chief Clerk's Office, the 4th February 1890.

In the matter of BHUSUN CHUNDER COONDOO, an insolvent.

On Saturday, the 2nd day of March last, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

Insolvent in person. (3536—1)

In the matter of MADHOOSOODUN SHAW, an insolvent.

On Saturday, the 11th day of January, last by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic, Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

K. K. Goho, Attorney. (3537—1)

In the matter of BUNSIDHUR SINGHANIA, lately carrying on business as piece-goods dealer and commission agent at No. 68, Cotton Street, in the town of Calcutta, under the name, style and firm of KRIPARAM SOOKDYAL, an insolvent.

On Wednesday, the 15th day of January last, it was, on the petition of Jumna Dhur, Joogulkissore, creditors of the said insolvent, adjudged that the said Bunsidhur Singhania hath committed an act of insolvency, under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

E. J. Fink, Attorney. (3538—2)

In the matter of SUJUN COOMAR AND BUNGSEEDHUR of No 90, Cross Street, in the Town of Calcutta, lately trading in co-partnership as merchants and agents, under the style and firm of Himutram Sujun Coomar, insolvents.

On Monday, the 27th day of January last, it was, on the petition of Luchme Chand, a creditor of the said insolvents, adjudged that the said Sujun Coomar and Bungseedhur have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

C. F. Pittar, Attorney. (3539—2)

In the matter of THOMAS BROWNING COOKSON, an insolvent.

On Saturday, the 1st day of February instant, an account of the receipts and disbursements of the Official Assignee, from the 10th day of February 1888 to the 29th day of January last, was filed in the office of the Chief Clerk, and it was ordered that Saturday, the 1st day of March next, be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B. Miller, Official Assignee. (3540—1)

In the matter of EDWARD JOAKIM GRACIES, an insolvent.

On Saturday, the 1st day of February instant, it was ordered that the Assignee do pay and divide the sum of Rs. 252-13-5 to and amongst all the creditors upon the estate of the said insolvent as a dividend at the rate of Rs. 43 per cent. upon such of the debts as are admitted in the schedule of the said insolvent, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto

A. B. Miller, Official Assignee. (3541—1)

In the matter of CARAPIET MARTYROSE ARATHOON, an insolvent.

On Saturday, the 1st day of February instant, it was ordered that the Assignee do pay and divide the sum of Rs. 422-2-8 to and amongst all the creditors upon the estate of the said insolvent as a dividend at the rate of 10 annas per cent. upon such of the debts as are admitted in the schedule of the said insolvent, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto.

A. B. Miller, Official Assignee. (3542—1)

Chief Clerk's Office, the 11th day of February 1890.

In the Court of the District Judge at Patna.

In the matter of the petition of Sheo Din Sahu, insolvent.

NOTICE is hereby given that Sheo Din Sahu of Dinapore Shahzadpore, pergunnah Phulwari, district Patna, has been declared insolvent, and that the Nazir of this Court has been appointed Receiver of his property under the order of this Court, dated the 2nd August 1889. Persons having claims against the insolvent are required to prove them in this Court on the 28th February 1890, which is fixed for framing the schedule.

J TWEEDIE, Offg District Judge.

Bankipore, the 31st January 1890. (3499—1)

POSTAL NOTICES.

Unclaimed Letters held in the Calcuta General Post Office on 11th Feoruary 1890.

Ainslie, J. H.	Kustermann, S. & Co.
Ashmore, W, C.	McNutty, J. H.
Butler, Darley & Co.	Simpson, G T.
Cohen, A M.	Watson, W.
Glyn, C.	

Letters marked Care of "Post Office."

Ardesher, C,
Babonau, E. Hugh,
Baldwin, W. H.
Baragercy, L.
Barker, F. W.
Baxter, Mrs.
Belitski, R.
Berkeley, C. M.
Boland, J.
Brown, W.
Bery, Adolph.
Broomsgrove, F.
Brunton, Mrs. J.
Carbery. Lady.
Chatterton, J.
Close, H.
Comar, Mrs. A.
Cooper, W
Courage, R.
Davis, Mrs. G.
DePalma, Urbans.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Duclere, G. P.
Dunlo, Viscount.
Dymond, G. F.
Elliott, K.
Filleul Revd., S. E. V.
Fisk, F. M.
Francis, E. S. L.
Flack, F. F.
Flaherty, O. H.
Fletcher, Neil.
Forshaw, H.
Fraiser, H. C.
Fraiser, Miss F.
Francis, A. M.
Gallwey, C. H.
Gellett, Cecil S.
Glover, W. E.
Godwin, George.
Green, W. W.
Gantzman, Charles.
Hamilton, C. J.
Hamilton, J. R.
Handcock, J. G.
Hunter, H. C.
Hardy, Mrs. M.
Hawksworth, Mrs.
Henderson, W. H.
Hewett, F. J.
Hilton, R. W.
Horns, Miss M. L.
Jackson, T.
Johannessen, O. C.
Keane, J. J.
Kennard, F.
Keogh, Mrs. M. A.
Klaymer, Mr.
Lach, R.
Lamb, E. G.
Langer, J. O.
Lindeman, L. K.
Lupton, C. E.
Livesey, Thomas.
Livewright, R.
Lloyd, Willis.
Long, W.
MacMaster, Donald.
Mackenzie, J.
Mann, E. H.
Major, A.
Manual, A. M.
Matthews, J. R.
Mathewson, F.
Maxwell, Sir, J. S.
May, J. J.
Mayes, W. H.
McAdoo, Mr.
McKenzie, Mrs D.
McNair, Miss.
McSmith, D.
Mifsud George.
Morshead, L.
Murphy, John.
Newby, C. R. A.
Ogden, J.
O'Mealy, Capt. D'Oyly.
Penn, Mrs.
Platts, Mrs. S. K.
Powell, F.
Pronter, Miss.
Rennrick, F. B. M.
Rennard, J. R.
Robinson, G.
Rosenstern, Otto.
Roskell, Richard.
Rubie, Phil C.
Sano, T.
Searle, F. W.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Skinner, R. H.
Smith, M. O.
Smith, W.
Smith, Mrs. Thomas.
Taylor, C.
Thomas, G. T.
Thomson, Captain W. A.
Thompson and Co.
Thompson, G.
Uphill, T.
Ursite, Johan.
Waddell, Alex.
Walter, F.
Walter, Amherst.
Webster, Mrs.

Registered Letters.

Broomsgrove, F.
Edwards, C.
Guiseppe, Celestini.
James, L. E.
MacLeod, D. J.
Marsland, W.
Smith, M. Oswald.

Unclaimed Letters held in the Barrackpore Post Office on the 10th February 1890.

Baker, E.
Balfour, H. T.
Burst, G. H.
Bruce, A.
Chutterberg, Col. T.
Chadburn, Mrs. J. E.
Dubery, E.
Ferguson, H. F.
Harding, H. R.
Lloyd, W.
Mertan, C. W.
Palore, L.
Thompson, Jas.

E. HUTTON,
Presidency Postmaster, Calcutta.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	18th Feb. ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	17th „ ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	24th „ ...	Ditto.
Australia, New Zealand, and Tasmania.	24th „ ...	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	20th „ ...	Per French steamer *Niemen*.
Madras and Colombo ...	19th „ ...	Per P. & O. steamer *Peshawur*.
Straits, China and Japan ...	18th „ ...	Per str. *A. Apcar*
Rangoon and Moulmein ...	12th „ ...	Ditto *Madura*.
Ditto ditto ...	14th „ ...	Ditto *Bhundara*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	12th „ ...	Ditto *Kistna*.
Mauritius	18th „ ...	Ditto *Wardha*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.
General Post Office, the 11th February 1890.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 7th February 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	0 6	At mouth entrance practically closed.
	Thence to Nurpur	0 9	Dhopipara.
	From Nurpur to Jungipur ...	1 0	Bangabari.
	„ Jungipur to Berhampur	1 0	Kesadanga.
	„ Berhampur to Cutwa ...	1 6	Harinathpore.
	„ Cutwa to Nuddea ...	2 3	Nidoy.
Bhyrub-Jelinghi.	Entrance from Ganges ...	6 0	
	Thence to Akriganj	5 6	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 0	Chukjama.
	Thence to Patkabari	5 0	Amtola.
	Patkabari to Nuddea	3 9	Kalinagur.
Matabanga.	Entrance from Ganges ...	1 6	
	Thence to Chnypara ...	0 10	Sircarpara.
	From Chnypara to Shikarpur	0 6	Pragpore.
	„ Shikarpur to Boalia ...	0 6	Shampore.
	„ Boalia to Chuadanga ...	2 6	Sialmari.
	„ Chuadanga to Kissenganj and Hanskhali.	2 3	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet	Feet.	
Ganges.	Sahebganj ...	8-2-90	6	1 33	66 67	Below zero.
	Rampore Boalia	8-2-90	12	0·34	42 34	
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The 24th February 1886.

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[REGISTERED No 29.]

No. 8 of 1890.

The Calcutta Gazette.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 165A.

GENERAL.—*The 13th February* 1890.—Baboo Soshi Sikar Dutt, Deputy Magistrate and Deputy Collector, Kandi, Moorshedabad, is allowed leave for two months, under section 370 of the Civil Service Regulations, with effect from the date on which he availed himself of it.

Mr. C. Johnston, Assistant Magistrate and Collector, Moorshedabad, is appointed temporarily to have charge of the Kandi sub-division of that district, during the absence, on leave, of Baboo Soshi Sikar Dutt, or until further orders.

The 15th February 1890.—Mr. C. A. Wilkins, District and Sessions Judge, Bhagulpore, on leave, is appointed to act, until further orders, in the first grade of District and Sessions Judges, with effect from the 13th instant, *vice* Mr. J. R. Hallett.

Mr. C. S. Bayley, Joint-Magistrate and Deputy Collector, is promoted substantively *pro tempore* to the first grade of Joint-Magistrates and Deputy Collectors, with effect from the 28th January 1890, *vice* Mr. F. A. Slack, on deputation, but will continue to be seconded.

Mr. E. B. Harris, Joint-Magistrate and Deputy Collector, Mozufferpore, is promoted substantively *pro tempore* to the first grade of Joint-Magistrates and Deputy Collectors, with effect from the 28th January 1890, *vice* Mr. C. S. Bayley, on deputation.

Mr. W. R. Bright, Assistant Magistrate and Collector, on furlough, is appointed substantively *pro tempore* to be a Joint-Magistrate and Deputy Collector of the second grade, with effect from the 28th January 1890, *vice* Mr. E. B. Harris.

The 18th February 1890.—Mr. T. D. Beighton, District and Sessions Judge, Dacca, is allowed furlough for seven months, under article 340 of the Civil Service Regulations, with effect from the 21st March 1890, or such subsequent date as he may avail himself of it.

Mr. A. E. Staley, Joint-Magistrate and Deputy Collector, is posted temporarily to the Sudder station of the district of the 24-Pergunnahs.

Mr. Staley is appointed to act as District and Sessions Judge of Dacca, during the absence, on furlough, of Mr. T. D. Beighton, or until further orders.

The following officers are appointed provisionally under Statute 33 Vic., Cap. 3, to be Assistant Magistrates and Collectors:—

Rai Nund Kissore Das, Bahadoor, Assistant Superintendent, Tributary Mehals, Cuttack.

Mr. Taheiruddin Ahmed, Barrister-at-Law, Officiating Additional Munsif of Dacca.

Rai Nund Kissore Das, Bahadoor, will continue to act in his present appointment of Assistant Superintendent of the Tributary Mehals, Cuttack, until further orders.

Mr. W. Maude, Officiating Joint-Magistrate and Deputy Collector, Tajpore, Durbhunga, is posted temporarily to the Chota Nagpore Division.

Mr. S. L. Maddox, Assistant Magistrate and Collector, Patna, is appointed temporarily to have charge of the Tajpore sub-division of the Durbhunga district, with effect from the forenoon of the 14th instant.

Mr. J. Windsor, Assistant Magistrate and Collector, Chumparun, is vested with the powers of a Collector under Act X of 1870 in the Bettiah sub-division of that district.

POLICE.—*The 13th February* 1890.—Mr. W. F. S. Allen, Officiating Assistant Superintendent of Police, Hazaribagh, is transferred to the district of Lohardugga, with effect from the date on which he joined his appointment.

The 14th February 1890.—Mr. R. L. Ward, Assistant Superintendent of Police, in charge of the district police of Bogra, is transferred to Pubna, and appointed to have charge of the district police of that district until further orders.

Baboo Jadub Chunder Deb, Assistant Superintendent of Police, 24-Pergunnahs, is transferred to Bogra, and appointed to have charge of the district police of that district until further orders.

Inspector Jiunat Hossein Khan is promoted from the third to the second grade of Inspectors, with effect from the 19th December 1889, *vice* Mr. R. H. Conran, retired.

The 18th February 1890.—In modification of the order dated the 21st January 1890, Mr. C. E. Gouldsbury, District Superintendent of Police, Purneah, is transferred to Julpigoree.

The following reversions of Police Officers are sanctioned:—

With effect from the 23rd January 1890, consequent on the return from leave of Colonel W. L. N. Knyvett, Deputy Inspector-General—

Mr A. H. Giles, Officiating Deputy Inspector-General, to the first grade of District Superintendents.

Mr. W. H. Cornish, Officiating first grade District Superintendent, to the second grade.

Mr. J. B. Goad, Officiating second grade District Superintendent, to the third grade.

Mr. H. Munro, Officiating third grade District Superintendent, to the fourth grade.

Mr. G. B. Havelock, Officiating fourth grade District Superintendent, to the fifth grade.

Mr F. H. Tucker, Officiating fifth grade District Superintendent, to the first grade of Assistant Superintendents.

Mr. C. C. Plowden, Officiating first grade Assistant Superintendent, to the second grade.

With effect from the 25th January 1890, consequent on the return from leave of Mr. F. Wilcox, second grade District Superintendent—

Mr. A. E. C. Bolst, Officiating second grade District Superintendent, to the third grade.

Mr C. A. Fisher, Officiating third grade, to the fourth grade.

Mr I. H. W. D. Clark, Officiating fourth grade District Superintendent, and with him Mr. R. F. Guise, Officiating fourth grade District Superintendent, to the fifth grade.

Mr. A. S. Judge, Officiating fifth grade District Superintendent, to the first grade of Assistant Superintendents.

Mr. A. Shuttleworth, Officiating first grade Assistant Superintendent, to the second grade.

JAILS.—*The 18th February* 1890.—Mr. H. M. Owen, Assistant Superintendent of the Bhagulpore Central Jail, is allowed leave for six months, under article 370 of the Civil Service Regulations, with effect from the date on which he may avail himself of it.

REGISTRATION.—*The 15th February* 1890.—Baboo Hari Prasanna Gupta, acting Rural Sub-Registrar of Bhatiyari, in the district of Chittagong, is confirmed in that appointment.

EDUCATION.—*The 18th February* 1890.—Mr. N. L. Hallward, M A., is appointed to be a member of the Bengal Educational Service and is posted as Professor in the Dacca College.

Mr. H. R. James, M. A., is appointed to be a member of the Bengal Educational Service and is posted as Professor in the Patna College.

ZOOLOGICAL.—*The 18th February* 1890.—Colonel J. Waterhouse is appointed to be a member of the Committee of Management of the Zoological Gardens at Alipore.

MEDICAL.—*The 15th February* 1890.—Assistant Surgeon Gunga Gobind Sarkar is appointed temporarily to have medical charge of the civil station of Bogra, with effect from the forenoon of the 3rd December 1889.

The 17th February 1890.—Assistant Surgeon Tamizuddin Ahmed, of the Bengal Provincial establishment, is transferred to the Imperial establishment.

The following notification is republished from the *Assam Gazette*:—

No. 293R.—The 5th February 1890.—Under the provisions of section 127 of the Assam Land and Revenue Regulation, 1886, the Chief Commissioner invests Mr. H. LeMesurier, Assistant Commissioner, Cachar, with the power to attach and sell moveable property under section 69 of the Regulation.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT.—(FORESTS.)

NOTIFICATION.

The 4th February, 1890.—Whereas by the notifications severally specified below, the undermentioned forests, situated in the Darjeeling district, were declared to be Reserved forests under the sections of the Indian Forest Act (VII of 1878) recorded against each of them, and whereas the Lieutenant-Governor is not satisfied as to the manner in which enquiries regarding rights in the said forests have been recorded, he is pleased to appoint the Deputy Commissioner of Darjeeling to be the Forest Settlement Officer, who will, under the provisions of Chapter II of that Act, determine the boundaries to be finally laid down, and enquire into and determine the existence, nature, and extent of any rights alleged to exist in favor of any person in, or over, any land comprised within the boundaries specified below, or in, or over, any forest produce to be found therein in cases where claims to such rights are preferred by any individual or community under section 6 of the said Act; and will also himself ascertain, as far as possible, and enquire into the existence of any rights mentioned in sections 4 or 5 of the said Act, within the said boundaries, which are not claimed under section 6, so far as the same may be ascertainable from the records of Government and the evidence of any persons likely to be acquainted with the same; and will otherwise perform the duties of a Forest Settlement Officer under that Chapter.

The Lieutenant-Governor is further pleased, under section 16 of the Indian Forest Act, to appoint the Commissioner of the Rajshahye Division to hear appeals from the decisions of the Forest Settlement Officer as above appointed.

(1) GOOMPAHAR FOREST.

(Includes lands described in notifications under the Indian Forest Act:—Section 34, dated the 23rd January, 1879, as Goompahar forest, exclusive of area mentioned in notification dated the 24th November, 1884 under section 26; section 19, dated the 19th July, 1880, as Pograinbong forest, and section 19, dated the 16th December, 1883 as Goom forest)

Description of boundaries.

North.—The source of the Little Rangit river, (Nepal frontier pillar No. 21 at Mani Bhanjan), down that river till it meets the boundary of the Permaigiri khas land; then a demarcated line eastwards along the southern boundaries of the following lands:—Permaigiri khas land, Mim Tea Estate, Tumsong khas land, Lingia Tea Estate, Khail Tea Estate, Christina Tea Estate, Rishihat khas land, Burbattia khas land to the Kuhil Jhora; then the Kuhil Jhora to the Hill Cart Road.

East.—The Hill Cart Road; then a demarcated line passing round Batasidhara village to the north-west boundary point of the Goom Tea Company's location; along the boundary of that location to the Goompahar ridge; across that ridge to the old (Upper) Goompahar Cart road; along that road to the head of a small jhora tributary to the Bing jhora; and down the small jhora to the south boundary.

South—A demarcated line separating the forest from the following lands:—Tungsong and Pubong Tea Estates, Palongdong and Pagraingbong khas lands to the Nagri ridge at the head of the Kundongbong jhora; the Silimbong and Chamang Tea Estates, and the lands leased to Atchay Lall Moodi to the Nepal frontier.

West.—The Nepal frontier to the starting point.

(2) SENCHAL FOREST.

(Includes the Senchal, Rangirun, Pachim, Sonada and Rungbul blocks of the Rangnu Tukdah and Senchal forest, notified under section 34 in the notification of the 23rd January, 1879, and the Dooteria forest, notified under section 34 in the notification of same date.)

Description of boundaries.

North-West—From the boundary post on the Bing jhora, up that jhora to the saddle at Jor-bungalow, skirting and excluding the bazar and Raja of Burdwan's land; then down the Rangnu river to its junction with the Senchal jhora.

North-East—Up the Senchal jhora to the Pashok road; then along the Pashok road to the Sureil turning; then up the ridge to Tiger Hill and on to Senchal G. T. S.; then down the main Senchal ridge to the head of the Rishap (or Sureil) spur at the source of the Runum jhora; down that jhora to the old Military road.

South—The old Military road to the Pachim jhora; then a demarcated line to the old cart road trace; then along that trace to its junction with the Darjeeling-Himalayan Railway near the Rungmuk jhora; then the Darjeeling-Himalayan Railway (excluding road location) to the Dooteria spur at the top of Dooteria path; then the north boundary of the Dooteria Tea Estate to the starting point.

Note.—The Rinchintongdhara north and south blocks, which were declared to be Reserved forest in the notification, dated the 30th March, 1886, under section 19 of the Act, also form part of the Senchal forest.

(3) TUKDAH FOREST.

(Includes the Rangirun, Dawaipani, Tukdah, Hoom, Poomong, Runjo (part), Tiger hill, Rangbi and Rishap (part) blocks of the Rangirun, Tukdah and Senchal forest, notified under section 34 in the notification of the 23rd January, 1879, and parts of the additions made to that forest by the notifications under section 19, dated the 25th March, 1881 [parts of the Runjo and Rishap blocks.)]

Description of boundaries.

North—From the point on the Senchal jhora at the south of the land leased to Mr. Wilson, along the eastern boundary of the land so leased to the Rangnu river; the Rangnu river to its junction with the Kejok jhora; then along boundaries of the Charlesfield, mineral springs and Tukdah Tea Estates, and the Tukdah and Lopchu khas lands.

East—A demarcated line separating the forest from the Mangwa, Linding and Hoom khas lands; then from the Rangli Rangliot Tea Estate, and from the Poomong Government land to the Rangjo river; then a continuation of the line up to the Sureil road; then along that road to a point about a mile from the Sureil bungalow; then a line due south to the top of the Rishap spur.

South—Along the crest of the Rishap spur to the head of the Runum jhora.

West—From the Runum jhora to the Senchal jhora, along the eastern boundary of the Senchal forest.

(4) MAHALDERAM FOREST.

(Includes the Sepoydhura and Chattakpur blocks of the Rangirun, Tukdah and Senchal forest as notified in the notification under section 34, dated the 23rd January, 1879, and part of the additions to the same made by the notifications under section 19, dated the 25th March, 1881, [now known as the Suriel and Mamrim blocks.)]

Description of boundaries.

North—Senchal and Tukdah forests.

East—A demarcated line running due south from a point on the Rishap ridge to the Sureil-Kurseong road; then that road to a point a short distance south of the Reaing river; then a straight demarcated line across the Mamrim valley to a survey point (stone post No. 66) on the Mahalderam-Sitong spur.

South—The Mahalderam-Sitong ridge to the old Military road; then southwards along that road to the north demarcated boundary of the Raja of Burdwan's land; then along that demarcated boundary to the Darjeeling-Himalayan Railway.

West—The Darjeeling-Himalayan Railway to the Runum jhora, excluding locations along the Hill Cart Road.

(5) RANGIT FOREST.

(Includes lands described in notification, dated the 23rd January, 1879, under section 34, as the Badamtam and Seem forests, and the Sumbong and Pashok blocks of the Sumbong, Pashok and Giljong forests.)

Description of boundaries—Badamtam block.

North—The Rangnit and Great Rangit rivers.

East—The Rangnu river.

South—The Rangnu river and the Badamtam Tea Estate.

West—The Badamtam Tea Estate.

Seem block.

North—A demarcated line from the Pusongpung spur to the Sumbong spur.

East and South-east—A demarcated line along the Sumbong spur meeting the boundary of the Sumbong block.

South-West and West—A demarcated line along the Pusongpung spur.

The Sumbong and Pashok blocks.

North—The Great Rangit river.

East—The Teesta river.

South—The Rangiak jhora; then a demarcated line along the boundary of the Pashok Tea Estate; then the Rungbong jhora; then a demarcated line along the boundary of the Lopchu Tea Estate to the Sumbong spur, on which it meets the boundary of the Seem block.

West—A demarcated line following the boundaries of the Glenburn and Sumbong Tea Estate to the Great Rangit river.

(6) MANGWA FOREST.

(Part of the land included in the notification, dated the 23rd January, 1879, under section 34, as the Sumbong, Pashok and Giljong forest.)

Description of boundaries.

North—The Rangiak jhora.

East—The Teesta river.

South—The Rangnu river.

West—A demarcated line along the boundary of the Linding and Mangwa Government waste lands.

(7) REAING FOREST.

(Part of the land included in the notification, dated the 23rd January, 1879, under section 34, as the Sumbong, Pashok and Giljong forest, known as the Rangnu and Reaing blocks, and the Berrik block, forming part of the land so notified as the Sukna-Teesta forest.)

Description of boundaries.

North—The Rangnu river.

East—The Teesta river.

South—The foot-path from the Teesta valley to Mongpu, from the Teesta river to the Reaing river.

West—The Reaing and Rangjo rivers; then a demarcated line forming also the boundary of the lands in the occupation of the Teesta Valley Tea Company.

(8) SITONG AND SIBHOK HILLS FOREST.

(Part of the land included in the notification, dated the 23rd January, 1879, under section 34, as the Sukna-Teesta forest, and known as the Kundong (part), Sitikhola, Numbong, Sitong, Andera, Ruyem, Chawa, Gola and Upper Ghoramara blocks, and an addition to the Kundong block of that forest, notified under section 19 in the notification dated 30th April 1881.)

Description of boundaries.

North—The foot-path from Mongpu to the Teesta Valley, from the Reaing river to the Teesta river.

East—The Teesta river.

South—The Sibhok or Chawa river; then the spur or ridge drained on the north by that river to the Latpunjor spur; then up that spur to Latpanchor, and along the ridge to Sitong.

West—A demarcated line forming the boundary of the land in occupation of the Government Cinchona Department; then the Reaing river.

(9) RILLI FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Nazzeokh and Tunang forests, and part of the Teesta-Cuel forest, notified under section 19 in notification, dated the 17th June, 1881, now known as the Gooling and Poubu blocks.)

Description of boundaries.

North and West—The Rilli river and the Teesta river.

East—A demarcated line along the ridge from the junction of the Rere Oong with the Rilli river to Tunang; then along a ridge from Tunang to the junction of the Nuboong and Rey Oong rivers; then along the watershed between the Seth and Siok jhoras; then along the watershed between the Door and Siok jhoras to the trigonometrical station at Nazzeokh; then along the watershed between the Gooling and Runeyoth jhoras to the Runeyoth jhora, and southward across that jhora to the ridge forming the watershed between the Runeyoth and Peen jhoras, and along that watershed to Ramtik; then along a spur to the junction of the Ramtik and Pursum jhoras.

South—The Pursum jhora.

(10).—KALIMPONG FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Rinkinpung and Kalimpong forests.)

Description of boundaries.

North.—The Teesta river.

East.—The Tor Chu; then a demarcated line running nearly parallel to the Teesta river at a distance from about half to one mile to the head of the Seerjam Chu; then following a ridge to Rinkinpung trigonometrical station and another spur running in an easterly direction to the Rilli river; then the Rilli river to its junction with the Rere Oong.

South.—The Rilli river.

West.—The Teesta river.

(11).—DUMSONG FOREST.

(Includes the land described in the notification, dated the 23rd January, 1879, under section 34, as the Dumsong forest)

Description of boundaries.

North.—The Rungpo Chu.

East.—A demarcated line on a ridge from the Rungpo Chu passing by Kabu and Pedong hill to the road at Dochung; then along the road from Dochung towards Kalimpong.

South.—A demarcated line running from the Dochung-Kalimpong road to the watershed between the Teesta and Rilli rivers, meeting that watershed about three quarters of a mile south-west of Echa; then generally running first in a northerly and then in a westerly direction to the Tor Chu.

West.—The Tor Chu and the Teesta river.

(12).—RISSOOM FOREST.

(Includes the lands described in the notification dated the 23rd January, 1879, under section 34, notified as the Payong and Mayrong forests, and part [Rissoom and Khempung blocks] of the Khempung forest).

Description of boundaries.

North.—The Dumsong forest; then a demarcated line from the boundary of the Dumsong forest running from the old Pedong-Kalimpong road to the Pakathaw Monastery.

East and South.—A demarcated line along the watershed of the Mayroug Chu and Rushett Chu to a point near Ludam; then the same watershed for about one mile to the head of the Singkanim Chu; then the ridge at the head of the Rilli river to the Labah ridge.

South.—The watershed between the Rilli river and the Jeet Chu and Chumung Chu to the head of the Hool Chu.

West.—Down the ridge east of the Hool Chu to the Rilli river; then the Rilli river to its junction with the Singkanim Chu; then a demarcated line to the starting point.

(13).—LOOLAGAON FOREST.

(Includes the lands described in the notification dated the 23rd January, 1879, under section 34, as the Loolagaon forest and part [the Siehoor block] of the Khempung forest; also part [the Pemling, Bokhim, and Chumung blocks] of the Jeet and Chee Chu forest, which was declared to be a Reserved forest under section 19 by the notification of the 28th August, 1882.)

Description of boundaries.

North.—The Rilli river; then the Khempung block of the Rissoom forest to Nunkfoo trigonometrical station.

East and South.—Down the ridge southwards from the Nunkfoo trigonometrical station to a demarcated line continuing westwards from the south-west point of the boundary of the Labah block, Pankasari Reserved forest round the heads of the valleys of the Chumung Chu, Mahaka Chu, Purmagree jhora, and other streams running into the Ghees Nadi, and of the Turoo Oong, to a point on the watershed of the Rilli river on one side and the Jeet and Lessoo rivers on the other side.

West.—A demarcated line passing west of Rieun trigonometrical station to the Rere Oong, then to the Rungno Chu, and then northwards to the Rilli river, which forms part of the north boundary.

(14).—DHOBIJHORA FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Dhobijhora forest, and the addition to the same gazetted under section 19 in the notification dated the 8th November, 1883.)

Description of boundaries.

North.—The Old Kurseong-Darjeeling Military road.

East.—A demarcated line separating the forest from Juman Sing's lands.

South.—A demarcated line separating the forest from the land known as Giddapahar.

West.—A demarcated line to the Old Kurseong-Darjeeling Military road, separating the forest from land of the Castleton Tea Estate; then the Old Kurseong-Darjeeling Military road, excluding the land demarcated out as the Dow Hill Government school location.

(15).—SIBA KHOLA FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Sibakhola forest.)

Description of boundaries.

North-East.—The Sibakhola river.

South.—A demarcated line separating the forest from the lands of the Gayabari Tea Estate and of the Maharajah of Burdwan known as Kurjung.

West.—The Hill Cart Road.

(16).—MANJUA FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Manjua forest [excluding the land described in the notification under section 26 by the notification dated the 18th February, 1882], and the addition to that forest which was declared under section 19 in the notification dated the 10th August, 1883.)

Description of boundaries.

North.—A demarcated line separating the forest from the remainder of the land known as Pinglu Tar.

East.—The Balasan river.

South.—A demarcated line from the junction of the Kalijhora and the Balasan river, separating the forest from the lands in the occupation of the new Fallodhi Tea Estate.

West.—A demarcated line separating the forest from the lands in the occupation of the Singbulli and Murmah Tea Estates.

(17).—KOOHEIN FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Koohein forest.)

Description of boundaries.

North.—A demarcated line from the Mechi river to the south-east corner of the Rangdo Estate, separating the forest from the lands of that estate.

East.—A demarcated line separating the forest from the lands of the Phugurhi Tea Estate.

South.—The Kuhein jhora.

West.—The Mechi river (Nepal frontier).

(18).—MANJHA FOREST.

(Includes the lands describedin the notification, dated the 23rd January, 1879, under section 34, as the Khyrbani and Lohagurce forests; also the lands described in that notification as the Manjha forest with the modifications in the Manjha forest made by the following notifications:—Additions under section 19, by notifications dated 10th August 1883 [9 acres] and dated 26th May, 1886, [1·75 acres]; exclusions under section 26, by notifications dated 18th February, 1882, [34 acres]; 6th June, 1885, [1·75, acres]; 29th December, 1885, [3 acres], and 12th March, 1887, [1·75 acres].

Description of boundaries.

North.—A demarcated line separating the forest from the lands in the occupation of the Tingling Tea Estate; then to a stream tributary to the Potong jhora; then that stream to its junction with the Potong jhora; then the Potong jhora to where the demarcated line separating the lands in the occupation of the new Fallodhi Tea Estate from the forest takes off from that jhora; then the said demarcated line to the Balasan river.

East.—A demarcated line on the Balasan river.

South.—A demarcated line separating the forest from the Balasan block of the Balasan forest, and from the lands in the occupation of the New Terai Tea Association, Indian Terai Tea Company, and Manjha Tea Estate.

West.—The boundary of the Central and Upper Mechi blocks of the Mechi forest; then demarcated lines separating the forest from the lands in the occupation of the Mechi and Lohagarhi Tea Estates to the Mechi river; then the Mechi river.

(19).—MECHI FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Mechi forests [two areas] and a detached area [the Surjbur forest]; also the additions to the Mechi forest made by the notifications under section 19, dated the 12th August, 1880, of the areas named Nipania and Gurabadi).

Description of boundaries.

North.—A demarcated line starting from the Mechi river forming part of the west boundary of the lands in the occupation of the Mechi Tea Estate.

East.—The Lohagurhi block of the Manjha forest; then a demarcated line separating the forest from the lands in the occupation of the Manjha, Morapur and Nipania Tea Estates.

South.—A demarcated line following the boundaries of adjoining jote lands to the Mechi river (Nepal frontier).

West.—The Mechi river (Nepal frontier).

Surjbur block.

North, East and South.—A demarcated line following the boundaries of adjoining jote lands.

West.—The Mechi river (Nepal frontier).

(20).—BALASAN FOREST.

(Includes part of the lands described in the notification dated the 23rd January, 1879, under section 34, as the Balasan and Dulkajhar forest, [the areas now known as the Balasan and Tarabari blocks].

Description of boundaries.

North.—A demarcated line across the Balasan river from Panighatta to the New Terai Tea Company's godown.

East.—A demarcated line separating the forest from lands leased for tea cultivation and from jote lands.

South.—A demarcated line across the New and Old Balasan rivers to the right bank of the latter.

West.—A demarcated line following approximately the right bank of the Balasan river, and forming also the boundary of the Tirihana block of the Pantapari forest; M and M Terai Tea Estate and New Terai Tea Association lands.

(21).—DALKAJHAR FOREST.

(Includes part of the lands described in the notification dated 23rd January 1879, under section 34, as the Balasan and Dalkajhar forest [viz., the areas now known as the Khadma, Taipu, Dalka (part), Central, Lalfa Bagdogra (part), Harlia, Danhara (part), Bengdubi (part), and Rishabari (part) blocks]; also the additions to that forest made by the notifications under section 19, dated 12th August 1880, of the following lands:—Rishabari, Major Wardroper's and Kanoo Chowdry's jotes [forming parts of the areas now known as the Rishabari, Bagdogra and Bengdubi blocks]; Multa forest [forming the present Multa block and part of the Dalka block]; and the portions of the Bengdubi forest [forming parts of the present Danhara and Bengdubi blocks].)

Description of boundaries.

North.—A demarcated line from the Rakti Nadi forming the boundaries of Jabra Khadma, Ord-Terai and Tirihana Tea Estates; then by the Tirihana block of the Pantapari forest.

East.—The Pantapari and Boiranti blocks of the Pantapari forest; then the Harlia Nadi.

South.—A demarcated line to the Taipu Nadi; then the Taipu Nadi to its junction with the Kaldor Nadi on the boundary between Sanesi Than and Kishtapur Tea Estates; then the Kaldor Nadi; then a demarcated line to the junction of the Lalfa with the Multa Nadi.

West.—The Multa Nadi; then a demarcated line excluding Jhakuadhura jote and across the Multa Nadi to the Rakti Nadi; then the Rakti Nadi.

Note.—From the area included in the above boundaries, the following jotes are excluded by demarcation:—

(1). Shamlal; (2). Tepua Chamaru; (3). Ragho.

(22).—PANTAPARI FOREST.

(Includes part of the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Balasan and Dalkajhar forest [the portion now known as the Tirihana block]; also part of the lands described in the notification of 12th August 1880 under section 19, as the Bengdubi forest [the portions now known as the Pantapari, Latua Boiranti and Barobhita blocks].)

Description of boundaries.

North.—The Tarabari block of the Balasan forest.

East.—The left bank of the Old Balasan river.

South.—A demarcated line from the left bank of the Old Balasan river to the Harlia Nadi, separating the forest from jote lands.

West.—The Bengdubi and Danhara blocks of the Dalkajhar forest; then a demarcated line separating the forest from the Tirihana and M and M Terai Tea Estates.

(23).—BAMONPOKRI FOREST.

(Includes the lands described in the notification dated the 23rd January, 1879, under section 34, as the Bamonpokri forest.)

Description of boundaries

North.—A demarcated line separating the forest from lands known as Mount Pereira.

East.—The Rakti Nadi.

South.—A demarcated line from the Rakti Nadi to the Rangichung Nadi, separating the forest from lands in the occupation of the Marionbari Tea Estate.

West.—The Rangichung Nadi.

(24).—Rakti FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Rakti Forest.)

Description of boundaries.

North.—The Silligori-Pankabari road.

East and South-East.—The eastern branch of the Rakti river.

West.—The Rangichung and Bissurbatti jhoras; then a demarcated line east to the Rangichung jhora; then that jhora; then another demarcated line east to the junction of the two branches of the Rakti river; then the Rakti river.

(25).—LAMAGUMBA FOREST.

(Includes the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Lamagumba Forest.)

Description of boundaries.

North and East.—A demarcated line from the junction of the Chochi jhora with the Rohoni river separating the forest from the lands in the occupation of the Selim Hill Tea Estate.

South.—A demarcated line separating the forest from the lands in the occupation of the Lamagumba Tea Estate.

West.—The Rohoni river.

Note.—From the area described within the boundaries above given is excluded the location of 6 acres, 2 roods, 3 poles, held by the Selim Tea Company.

(26).—SUKNA FOREST.

(Includes a portion of the lands described in the notification, dated the 23rd January, 1897, under section 34, notified as the Sukna-Teesta forest, now known as the Kuklong, Sukna, Rungdung, Kynanuka, Adulpur and Chamta blocks.)

Description of boundaries.

North.—A demarcated line starting from the point of the Gumti on the Hill Cart Road at the head of the Kuklong Nadi along the Hill Cart Road for a short distance, and then across the Rungdung valley to the junction of the Chibla Khola with the Punchanai river, the whole forming the boundary between the forest and the lands in the occupation of the Sepoydhura Tea Estate.

East.—The Panchanai river to the north-east point of the Kynanuka jote boundary; then a demarcated line along the boundaries of that jote round to the Sukna trigonometrical station on the Hill Cart Road; then the Hill Cart Road to a point near Methibari.

South.—A demarcated line separating the forest from Methibari and Chamta Tea Estates to the Chamta Nadi.

West.—The Chamta Nadi to the Sukna-Adulpur road; then a demarcated line to the Kuklong Nadi skirting the village lands of Kynanuka; then the Kuklong Nadi, which separates the forest from the lands in the occupation of the Terai Tea Company, Terai Tea Association, and Selim Hill Tea Estate.

(27) —MAHANADI FOREST.

(Includes a portion of the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Sukna-Teesta forest, now known as the Pundig, Mahanadi, Mohurgong, Hatisurra and Panchanai blocks.)

Description of boundaries.

North.—A demarcated line from the Panchanai river to the Mahanadi river, separating the forest from the lands in the occupation of the Narbong Tea Estate.

East.—The Mahanadi river to the Sukna-Teesta road crossing.

South.—A demarcated line along that road to the Panchanai river.

West.—The Panchanai river.

(28).—CHAMPASARI FOREST.

(Includes a portion of the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Sukna-Teesta forest, now known as the Gulma, Singimari, Upper Champasari and Lower Champasari blocks.)

Description of boundaries.

North.—The Sukna-Sibhok forest road from the Mahanadi river to the Gulma river.

East.—The Gulma river to the Sukna-Teesta road crossing at Champasari.

South.—A demarcated line along the Sukna-Teesta road to the Mahanadi river.

West.—The Mahanadi river.

(29).—CHOKLONG AND LATPANCHOR FOREST.

(Includes a portion of the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Sukna-Teesta forest now known as the Lower Ghoramara, Gulma valley, Choklong, Jogijhora, Kuhi, Bandarjhola, Mana (part) and Latpanchor blocks; also the lands gazetted under section 19, in the notification, dated the 12th August, 1880, as the Manering forest, now forming part of the Mana block)

Description of boundaries.

North.—A demarcated line along the Mamrim ridge from the north-east point on the boundary of the Mahalderam Tea Estate to Sitong Hill.

East.—The Mimbong and Sitong blocks of the Sitong forest, and the Upper Ghoramara and Chawa blocks of the Sibhok Hill forest; then the boundary between Darjeeling Hills and Terai pergunnahs to the Sukna-Sibhok forest road.

South.—The Sukna-Sibhok forest road, from the Ghoramara Nadi to the Mahanadi river.

West.—The Mahanadi river and Manajhora; then a demarcated line forming part of the east boundary of Mahalderam Tea Estate.

(30).—SIBHOK FOREST.

(Includes a portion of the lands described in the notification, dated the 23rd January, 1879, under section 34, as the Sukna-Teesta forest, now known as the Janaikuri, Somardanga, Sibhok North, Sibhok East, Sibhok West, and part of the Shilibhita blocks; also the lands gazetted under section 19, in the notification, dated the 12th August, 1880, as the Shilibhita forest, now forming part of the Shilibhita block)

Description of boundaries.

North.—The Sibhok or Chawa river.

East.—The Teesta river along the boundary between the Darjeeling and Julpigori districts.

South.—The Janaikuri Nadi; then a demarcated line to the junction of the Jial jhora with the Ghoramara Nadi; then the Ghoramara Nadi to its junction with the Gulma river.

West.—The Gulma river to the Sukna-Sibhok forest road; then the boundary between Darjeeling Hills and Terai pergunnahs to the Sibhok river.

P NOLAN,
Secretary to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 17th February, 1890.—It is hereby notified that at the examination for admission into the Opium Department held simultaneously at Calcutta and Allahabad in January, 1890, in pursuance of the notification dated the 5th October, 1889, the following candidates passed and obtained the highest aggregate of marks :—

(1) Mr. Albert Datta.
(2) „ Alfred Burt.
(3) „ A. H. Biss.
(4) „ J E. Powell.

These gentlemen will be appointed to fill vacancies in the Opium Department as they occur, according to the order in which their names appear. The last named will, however, be appointed after the native gentleman to be selected by the Lieutenant-Governor has been appointed, as stated in paragraph 7 of the above-quoted notification.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—The Lieutenant-Governor directs, under section 101 of the Bengal Tenancy Act VIII of 1885, that a survey shall be made and a record of rights prepared in respect of all lands included in the boundaries of the following estate in the district of Nuddea :—

Name of estate.	Situation in pergunnah.
841, Chur Goalgram.	Shahanjial.

The particulars to be recorded in the survey and record of rights shall be the following :—

1. The name of each tenant.
2. The class to which he belongs : that is to say, whether he is a tenure-holder, ryot holding at fixed rates, occupancy ryot, non-occupancy ryot or under-ryot; and if he is a tenure-holder, whether he is a permanent tenure-holder or not, and whether his rent is liable to enhancement during the continuance of his tenure.
3. The situation, quantity and boundaries of the land held by him.
4. The name of his landlord.
5. The rent payable.
6. The mode in which that rent has been fixed, whether by contract, by order of a Court, or otherwise.
7. If the rent is a gradually increasing rent, the time at which, and the steps by which, it increases.
8. The special conditions and incidents, if any, of the tenancy.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—With reference to the Government notification dated the 17th February 1890, published in the *Calcutta Gazette* of the 19th February 1890, the Subdivisional Officer of Kushtea is hereby appointed under rule 1, Chapter VI of the rules made by Government under the Bengal Tenancy Act, to be the Settlement Officer of Estate Goalgram, No. 841, in the district of Nuddea.

P. NOLAN,
Secretary to the Govt. of Bengal.

DECLARATION.

The 17th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the Sherpur Town Post Office in the village of Sherpur, pergunnah Sherpur, zillah Mymensingh, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 bigah 13 cottahs and 4 chittacks of standard measurement, bounded on the north by a ditch and unoccupied homestead land of Har Kumar Chaudhri; on the south by a drain and a road belonging to Krisna Chandra Patranavis; on the west by a Municipal tank and the school compound; and on the east by a drain and a road belonging to Krisna Chandra Patranavis, is required within the aforesaid village of Sherpur.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

P. NOLAN,
Secy. to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 166A.

The 12th February 1890.—Baboo Satkari Haldar, B.L., is appointed to act as a Munsif in the district of the 24-Pergunnahs, to be ordinarily stationed at the Sudder station of that district, during the absence, on leave, of Baboo Revati Churn Banerjee, or until further orders.

The 15th February 1890.—Baboo Amar Chunder Mukerjee, Munsif of Palamow, in the district of Lohardugga, is vested with the powers of a Magistrate of the second class.

The orders of the 22nd and the 25th January 1890, published in the *Calcutta Gazette* of the 29th idem, granting Baboo Gopi Krishna Banerjee, Munsif of Bagirhat, in the district of Jessore, leave on medical certificate for two months, and appointing Baboo Satkari Haldar, B.L., to act as Munsif of Bagirhat, are cancelled.

Baboo Ananta Ram Ghose, Munsif of Gya, is appointed to act as Subordinate Judge of Dinagepore, during the absence, on leave, of Baboo Hara Gobind Mukerjee, or until further orders.

Baboo Ananta Ram Ghose is vested with the powers of a Munsif, and with those of a Judge of a Court of Small Causes for the trial of suits cognizable by such a Court up to the value of Rs. 100 within the local limits of the Sudder Munsifi of Dinagepore.

Baboo Gopal Chunder Mukerjee, B.L., is appointed to act as a Munsif in the district of Gya, to be ordinarily stationed at the Sudder station, during the absence, on deputation, of Baboo Ananta Ram Ghose, or until further orders.

Baboo Shanta Nath Bhattacharjea is appointed to be an Honorary Magistrate of the Independent Bench at Nattore, in the district of Rajshahye, and is vested with the powers of a Magistrate of the third class.

Moulvie Obedullah is appointed to be an Honorary Magistrate of the Perozepore Bench, in the district of Backergunge, and is vested with the powers of a Magistrate of the third class.

The Lieutenant-Governor accepts the resignation tendered by Sayed Habibar Rahman of his appointment as an Honorary Magistrate of the Perozepore Bench, in the district of Backergunge.

Baboo Prosonno Chundra Chackravarti is appointed to be an Honorary Magistrate of the Gaibanda Bench, in the district of Rungpore, and is vested with the powers of a Magistrate of the third class.

Baboo Tulsi Dass Mukerjee, Sub-divisional Magistrate, Nilphamari, in the district of Rungpore, is vested, under section 407 of the Code of Criminal Procedure, with powers to hear appeals from convictions by Subordinate Magistrates of the second and third classes.

The 17th February 1890.—Baboo Monmohun Chakravarti, Temporary Deputy Magistrate and Deputy Collector, Pooree, is vested with the powers of a Magistrate of the first class.

The 18th February 1890.—Baboo Tara Prosonno Das, B.L., is appointed to act as a Munsif in the district of Midnapore, to be ordinarily stationed at the Sudder station, during the absence, on leave, of Baboo Kanti Chandra Bhaduri, or until further orders.

Baboo Jogesh Chunder Mookerjee, Officiating Sub-Deputy Collector, Madhubani, Durbhunga, is vested with the powers of a Magistrate of the third class.

Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Moulvie Karam Hossein, Officiating Deputy Magistrate, Durbhunga, to take down evidence in criminal cases in the English language.

Baboo Amrita Lal Pal, Subordinate Judge of Gya, is allowed leave for two days under article 306(*b*) of the Civil Service Regulations, in extension of the leave granted to him under the order of the 4th April 1889.

GRANT OF LEAVE TO MUNSIFS.—*The 14th February* 1890.—Baboo Kanti Chandra Bhaduri, Munsif of Midnapore, is allowed leave for two months, under article 306 (*b*) of the Civil Service Regulations, with effect from the 1st February 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION

The 18th February 1890.—It is hereby notified that under the provisions of section 641 of the Code of Civil Procedure (Act XIV of 1882), the Lieutenant-Governor exempts Maharajah Girija Nath Roy of Dinagepore from personal attendance in Civil Courts.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION.

The 17th February 1890.

No 43.—*Notification.*—With reference to Bengal Government Resolution, No. 238*I.A*, dated the 11th February 1890, appointing a Commission to enquire into certain matters relating to the "Circular and Eastern Canals," and to notification No. 350, dated the 17th September 1889, imposing certain tolls at Khoolna on boats using that route, *it is hereby notified* that the last quoted notification above is cancelled. Final orders on the points under enquiry, which include "the boundaries within which tolls are levied," will be issued subsequently.

No 44.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for constructing a retired line of embankment in the village of Sreenagore, taruf Bansra, pergunnah Medunmull, zillah 24-Pergunnahs, it is hereby declared that for the above purpose a piece of land 2,140 feet long, 132 feet broad, measuring, more or less, 19 bighas 12 cottahs and 5 chittacks of standard measurement, bounded on the north and south by the Government embankment, and east and west by the paddy lands of Baboos Radha Mohun Banerjee and Tarruck Nath Banerjee, is required within the aforesaid village of Sreenagore.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 45 —*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for constructing a retired embankment in the village of Jehanabad, taraf Bonomallypore, pergunnah Medunmull, zillah 24-Pergunnahs, it is hereby declared that for the above purpose a piece of land 820 feet long, 135 feet broad, measuring, more or less, 7 bighas 13 cottahs and 12 chittacks of standard measurement, bounded on the north and south by the lands of Baboos Bussonto Kumar Roy Choudry and others of Baripore, and east and west by the Government embankment, is required within the aforesaid village of Jehanabad.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 46 —*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for constructing a retired embankment in the villages of Bahadurpore and Banitola, pergunnah Mooragatcha, zillah 24-Pergunnahs, it is hereby declared that for the above purpose a piece of land 2,267 feet long and 120 feet broad, measuring more or less, 18 bighas 17 cottahs and 13½ chittacks of standard measurement, bounded on the north, south, and west by the paddy lands of the estate of late Baboo Harraprosaud Choudry, and east by the paddy lands of the above named Choudry and Government embankment, is required within the aforesaid villages of Bahadurpore and Banitola.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

ESTABLISHMENT.

The 17th February 1890.

No. 47.—The following extract from a notification by the Government of India, Public Works Department, is republished for information :—

No. 78, *dated the 14th February* 1890.—Public Works Department Notification No. 397, dated 20th December 1889, is cancelled.

The following promotions and reversions are made in the Superior Accounts, Branch :—

NAMES.	FROM	TO	WITH EFFECT FROM
Lieut.-Col. H. R LeM. Carey, s.c.	Examiner, Class IV, grade I temporary.	Examiner, Class IV, grade I, permanent.	8th November 1889.
Mr W. E. Curry ...	Deputy Examiner, 1st grade, *sub pro tem.*	Deputy Examiner, 1st grade, permanent.	8th November 1889.

No. 49 —The following notifications by the Government of India, Public Works Department, are republished for information :—

No. 64, *dated the 8th February* 1890.—*Corrigendum*—In notification No. 390, dated the 13th December 1889, appointing Mr. H. Martindell and Baboo Nogendra Nath Mookerjee, passed students, Seebpore College, to the Public Works Department, *for* Apprentice Engineers, *read* Assistant Engineers, third grade.

No. 72, *dated the 11th February* 1890.—Mr. A Greenlees, Assistant Engineer, first grade, State Railways, is permitted at his own request to resign his appointment in the Public Works Department.

No. 75, *dated the 12th February* 1890.—Mr. E. J. Neuville, Deputy Examiner of Accounts, attached to the office of the Examiner of Public Works Accounts, Burma, is granted furlough out of India for two years, under Article 371 of the Civil Service Regulations.

The 18th February 1890.

No. 50.—Mr. H. Barlow, Assistant Engineer, Buxar Division, is transferred to the Office of the Superintending Engineer, Sone Circle, with effect from the afternoon of the 3rd instant.

No. 51.—*Promotions.*—The Lieutenant-Governor is pleased to make the following promotion and reversions in the Engineer Establishment with effect from the dates specified :—

Names.	From	To	With effect from	Nature of promotion.
Mr. J. P. Coy ...	Assistant Engineer, 1st grade.	Executive Engineer, 4th grade.	30th Nov. 1889 ...	*Sub pro tem.*
„ W. B. Gwyther ..	Executive Engineer, 4th grade, *sub pro tem.*	Executive Engineer, 4th grade (temporary rank).	Ditto ...	Reversion.
„ W. H. Rushton ...	Executive Engineer, 4th grade (temporary rank).	Assistant Engineer, 1st grade.	Ditto ...	Ditto.
„ M. H. Arnott ...	Ditto ditto ...	Ditto ditto ...	3rd Dec 1889 ...	Ditto.
„ W. A. Inglis ...	Executive Engineer, 2nd grade, *sub pro tem.*	Executive Engineer, 3rd grade.	19th Dec. 1889 ...	Ditto.
„ A. S. Thomson ...	Executive Engineer, 3rd grade, *sub pro tem.*	Executive Engineer, 4th grade.	Ditto ...	Ditto.
„ T. Butler ...	Executive Engineer, 4th grade, *sub pro tem.*	Executive Engineer, 4th grade (temporary rank).	Ditto ...	Ditto.
Rai Sahib Kirth Chunder Chowdry.	Executive Engineer, 4th grade (temporary rank).	Assistant Engineer, 1st grade.	Ditto ...	Ditto.

IRRIGATION.

The 18th February 1890.

No. 53.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for constructing a retired line of embankment at Chatiani, it is hereby declared that for the above purpose a piece of land having an aggregate length of about 4,200 feet by 88½ feet in breadth, measuring, more or less, 25 bighas 15 cottahs and 13 chittacks of standard measurement in the village of Chatiani, pergunnah Plassey, district Moorshedabad, is required.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 54.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for repairing the Bhagirathi embankment at the Baharamgunge Cut in the 38th mile, it is hereby declared that for the above purpose 2 pieces of land measuring, more or less, 10½ cottahs of standard measurement in the village of Baharamgunge, pergunnah Ashudnagore, district Moorshedabad, are required.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 55.—*Declaration*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz for constructing the lower junction retired line of embankment at Mohula, it is hereby declared that for the above purpose a piece of land having an aggregate length of about 3,120 feet by 108 feet in breadth, measuring, more or less, 23 bighas 7 cottahs and 14 chittacks of standard measurement, in the village of Mohula, pergunnah Choonakhally, district Moorshedabad, is required.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

RAILWAY.

The 17th February 1890.

No. 48.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the public expense for a public purpose, viz., for a stone-quarry for the Bengal Northern Railway Company, in the village of Kadomdih, pergunnah Patkun, zillah Manbhoom, it is hereby declared that for the above purpose a piece of land measuring, more or less, 14 bigahs 14 cottahs and 10 chittacks, or

equivalent to 4 acres 3 roods and 19 poles (English measure) of standard measurement, bounded on the—

West—By waste land of Kadomdih,
North—By cultivated land,
East—By waste land,
South—By waste and cultivated land of Kadomdih,

is required within the aforesaid village of Kadomdih.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

The 18th February 1890.

No. 52.—It is hereby notified, under section 4 of Act X of 1870, to all whom it may conern, that a survey for a line of railway is about to be made from Sini station on the Bengal-Nagpore Railway in the district of Manbhoom to Howrah, passing near the following places:—

In the Manbhoom district.

Goomharia.		Moholia.
Jugsoli.		Ghatsila.
Domjori.		Narsingurh.
	Chakulia	

In the Midnapore district.

Ektal.		Soosooma.
Gopalpoor.		Midnapore.
Jhargoon.		Boli Chuk.
Dhangoram.		Punch Kura.
	Kola Ghat.	

In the Howrah district.

Bagnan.		Baoria.
Moiskrika Ghât.		Rajgung Haut.
Rajapoor Haut.		Echapoor.
	Howrah.	

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

NOTICE.

The 13th February 1890.—Persons intending to make a pilgrimage to Mecca are hereby informed that information has been received by the Government that great distress is at present prevailing in the surrounding country owing to the scarcity of food, consequent upon the want of a sufficient rainfall during the last three years, and that, owing to the forlorn condition of the people, assaults on travellers and merchants on the Jeddah and Mecca roads are now of frequent occurrence.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

NOTIFICATION No. 43Mne.

The 17th February 1890.—In exercise of the powers conferred upon him by section 4, sub-section (1), clause (*b*) of Act X of 1889 (The Indian Ports Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to extend the provisions of section 32 of the said Act to the navigable rivers and channels leading to the port of Calcutta as defined in the notification of this Government, dated the 24th June 1886.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

NOTIFICATION No. 44Mne.

The 18th February 1890.—A competitive examination for admission of one locally selected candidate into the Bengal Pilot Service will be held at the Port Office on the 31st of March 1890, in accordance with the regulations published in the *Calcutta Gazette* of the 24th June 1885, Part I, page 610, and subsequently modified under notification No. 88Mne., dated the 18th June 1889, published at page 526, Part I of the *Calcutta Gazette* of the 19th idem.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

[First Publication]

NOTIFICATION No. 41Mne.

The 17th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 21).

BAY OF BENGAL.

BURMA COAST.

Regarding Savage island light; and a white light on Fakir Point.

IN continuation of Notice to Mariners, Nos. 17 and 18, respectively dated the 4th February 1890, information has been received from the Port Officer, Rangoon, that the transferring of the light on Savage island to the temporary structure having been completed, that light will be exhibited as before. A white light will also be shewn from Fakir Point to guide vessels leaving or entering the port at night.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 15th February* 1890.

[First Publication.]

NOTIFICATION No. 42Mne.

The 17th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 22).

BAY OF BENGAL.

ORISSA COAST.

Inner bar buoy replaced in position.

IN continuation of Notice to Mariners, No. 2, dated the 4th January 1890, issued by this Office, information has been received from the Collector of Customs, Balasore, that the Inner bar (red) buoy has been replaced in position.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 15th February* 1890.

[Second Publication.]

NOTIFICATION No. 31Mne.

The 4th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 17).

BAY OF BENGAL.

BURMA COAST.

Alteration of light on Savage Island—port of Akyab.

IN continuation of Notice to Mariners, No. 14, dated the 27th January 1890, issued by this Office, information has been received from the Port Officer, Akyab, that the light on Savage island will be obscured from the 27th idem, preparatory to its removal to the temporary structure, and will be re-exhibited after 10 to 15 days. During this period a blue light will be burnt every ½ of an hour.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th February* 1890.

[Second Publication.]

NOTIFICATION No. 32Mne.

The 4th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 18).

BAY OF BENGAL.

BURMA COAST.

Blue lights on Savage island discontinued.

IN continuation of Notice to Mariners No. 17, dated the 4th instant, a telegraphic communication has been received from the Port Officer, Akyab, that the blue lights on Savage island were discontinued from the 2nd idem.

By direction of the Government of Bengal,

OLIVER LASH, B.P.,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 4th February* 1890.

[Second Publication.]

NOTIFICATION No. 38Mne.

The 11th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 19).

CHINA SEA.

SINGAPORE, WESTERN APPROACH—SALAT SINKI.

Bell buoy withdrawn; and a light vessel moored on Ajax shoal.

THE British Admiralty has given notice (No. 23 of 1890) that on 1st February 1890 a light-vessel will be moored on Ajax shoal, west side of Salat Sinki, western approach to New harbour, Singapore:—

The light will be a *flashing* white light, showing a *flash every thirty seconds*; it will be elevated 38 feet above the sea, and should be visible in clear weather from a distance of 10 miles.

The light-vessel will be painted yellow, with the word *Ajax* in white letters on a black ground on her sides. She will carry a caged ball, painted red, at the masthead, as a day mark.

Position, lat. 1° 13′ 55″ N., long 103° 40′ 20″ E.

Also, that on the same date, the Bell buoy now marking Ajax shoal will be withdrawn.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th February* 1890.

[Second Publication.]

NOTIFICATION No. 39Mne.

The 11th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 20).

BAY OF BENGAL.

CHITTAGONG COAST.

Spar buoy replaced temporarily.

INFORMATION has been received from the Port Officer, Chittagong, that the Spar buoy referred to in Notice to Mariners No. 28, dated 18th March 1889, having sunk, a second class iron buoy has been laid down off the western edge of the sand in about 6½ fathoms low water; lat. 21° 31′ North, long. 91° 39′ East: Chart No. 859.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th February* 1890.

[Third Publication]

NOTIFICATION No. 29Mne.

The 3rd February 1890.—The following Notice to Mariners is published for general information.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 16).

BAY OF BENGAL.

ORISSA COAST.

Date of exhibition of new light from Chandipore flagstaff.

IN continuation of Notice to Mariners, No. 49, dated the 31st May 1889, issued by this Office, it is intended to exhibit the new light on the Chandipore flagstaff from the 1st May 1890.

The height of the new light above high-water mark will be 62 feet.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 30th January* 1890.

Detailed account of Security deposit held by the Comptroller-General on the 31*st December* 1889 *on account of Examiner, Public Works Accounts, Bengal, published in conformity with Government of India, Public Works Department, order dated* 28*th May* 1880.

LOAN.	Stock held by the Comptroller-General.	Government Promissory Notes held by the Comptroller-General in safe custody.	Total.
Government Promissory Notes of 4 per cent. of 1865 and other years.	Rs 56,900	Rs. 25,200	Rs. 82,100

Detailed account of Security deposits held by the Comptroller-General on the 31*st December* 1889.

NAMES OF DEPOSITORS.	Amount of investment of 4 per cent. of 1865 and other years.	Names of the officers to whom the interest is sent.
First Calcutta Division.	Rs.	
Kasee Nath Mookerjee, Cashier ..	2,000	Executive Engineer, First Calcutta Division.
Boikonto Nath Ghosal, Sircar ...	500	Ditto, ditto.
Kalipodo Mookerjee, Store keeper ...	500	Ditto, ditto.
J. A. Catchick, ditto ...	1,200	Ditto, ditto.
Second Calcutta Division.		
Chuni Lal Dass	2,000	Ditto, Second Calcutta Division.
Calcutta Workshop.		
Tarak Nath Banerjee, Cashier ...	2,000	Superintendent, Calcutta Workshop.
Beman Bihary Sircar	500	Ditto, ditto.
Kanti Chundra Mukerjee	2,000	Ditto, ditto.
Bindabon Sye Duffadar	100	Ditto, ditto.
Burrakur Iron Works.		
Amulya Nath Mookerjee, Cashier ...	2,000	Superintendent, Burrakur Iron Works.
Burdwan Division.		
Charoo Chundro Mitter, Cashier ...	2,000	Executive Engineer, Burdwan Division.
Chota Nagpore Division.		
Ashutosh Mookerjee, Cashier ..	2,000	Executive Engineer, Chota Nagpore Division
Dacca Division.		
Dovendro Nath Singha, Cashier ...	2,000	Executive Engineer, Dacca Division.

NAMES OF DEPOSITORS.	Amount of investment of 4 per cent of 1885 and other years.	Names of the officers to whom the interest is sent.
Northern Drainage and Embankment Division.	Rs.	
Ashutosh Banerjee, Cashier	2,000	Executive Engineer, Northern Drainage and Embankment Division.
Baly Churn Pyne	500	Ditto, ditto.
Shaik Munnoo, Duffadar	100	Ditto, ditto.
Circular and Eastern Canals.		
Tara Prossonna Dutta, Cashier ...	2,000	Executive Engineer, Circular and Eastern Canals Division.
Nuddea Rivers.		
Raj Mohan Roy, Cashier	2,000	Executive Engineer, Nuddea Rivers.
Cossys.		
Bipin Bihari Dutt, Cashier	2,000	Executive Engineer, Cossye Division.
Hurry Prosonno Chatterjee, Store-keeper...	1,000	Ditto, ditto.
Dehree Workshop.		
Kedar Nath Chatterjee, Cashier ...	2,000	Executive Engineer, Dehree Workshop.
Hodges, Radford, Contractor ...	500	Ditto, ditto.
Arrah Division.		
Gonga Dhur Bhuttacharjee, Cashier ..	2,000	Executive Engineer, Arrah Division.
Nundo Gopal Chatterjee, ditto ...	2,000	Ditto, ditto.
Ganado Prosad Gungooly, ditto ...	1,000	Ditto, ditto.
Buxar Division.		
Bama Churn Banerjee, Cashier ...	1,000	Executive Engineer, Buxar Division.
Raj Koomer Banerjee, ditto ..	2,000	Ditto, ditto.
Sarodaprosad Ghosh, ditto ...	1,000	Ditto, ditto.
Eastern Sone Division.		
Kally Das Dey, Cashier ...	2,000	Executive Engineer, Eastern Sone Division.
Keshub Lal Banerjee, ditto ...	1,000	Ditto, ditto.
Gunduck Division.		
Prosonno Coomar Mitter, Cashier ...	1,500	Executive Engineer, Gunduck Division.
Mahanuddy Division.		
Sham Shundur Shahoo, Cashier ...	1,700	Executive Engineer, Mohanuddy Division.
Brahmini-Byturni Division.		
Bijoy Gopal Ghose, Storekeeper ...	500	Executive Engineer, Brahmini-Byturni Division.
Syed Mufuzul Rohomun, Cashier ...	2,000	Ditto, ditto.
McNeill & Co.	2,000	Ditto, ditto.
Revenue Superintendent, Orissa.		
C. H. Romaniah Naidoo, Head Clerk ...	1,000	Revenue Superintendent, Orissa.
Revenue Superintendent, Midnapore.		
Rakhal Dass Bose, Tehsildar ...	200	Revenue Superintendent, Midnapore.
Collector and Supervisor of Tolls, Calcutta Canals.		
Sreedhur Chunder Gangooly, Darogah ...	500	Toll Collectors, Calcutta Canals.
Ashutosh Sen, ditto ...	1,000	Ditto, ditto.
Jogendra Nath Bose, ditto ...	1,000	Ditto, ditto.
Pasupati Banerjee, ditto ..	1,000	Ditto, ditto.
Office of Examiner, Public Works Accounts, Bengal.		
Budun Behary Chatterjee, Sircar ...	100	Examiner, Public Works Accounts, Bengal.
Toll Collector, Nuddea.		
Nil Madhub Chakravati	500	Toll Collector, Nuddea.
Balasore Division.		
Jadunath Ghosh, Cashier	1,000	Executive Engineer, Balasore Division.
Total ..	50,900	

Detailed account of Government Promissory Notes held by the Comptroller-General in safe custody.

NAMES OF DEPOSITORS.	Amount of investment of 4 per cent. of 1865 and other years.
	Rs.
First Calcutta Division.	
McNeill and Company	1,000
Atkinson Brothers	1,000
Gopal Chundra Haldar	600
Rai Gungabistu Roy, Bahadoor	5,000
Second Calcutta Division.	
J. B. Norton	100
Calcutta Workshop.	
Chundra Coomar Lahiri	400
Joggo Nath Prosad Sing	200
Kristo Nath Ghosh and Woomesh Chundra Ghosh	400
Bepin Gopal Mitter	200
Beman bihari Sircar	1,500
Bengal Coal Company, Limited	200
Burdwan Division.	
Kedar Nath Lahiri	200
Aghore Chundra Gangooly	200
Preonath Ghosh	500
Mehar Lal Das	500
Sreemonto Haldar, Nabin Chundra Bhattacharjee, and Sree Nath Sircar	500
Dacca.	
Bengal Stone Company, Limited	1,100
Preo Nath Ghosh	1,100
Circular and Eastern Canals.	
Nilkunto Chatterjee	500
Chittagong Division.	
Nogendro Coomar Sen	500
Brahmini-Byturnee Division.	
Managing Agent, India General Steam Navigation Company ...	2,000
Cossye Division.	
Hoare, Miller and Company	2,000
Balasore Division.	
Hoare, Miller and Company	3,000
Schœne, Kilburn and Company	1,500
Nuddea Rivers.	
Preo Nath Ghosh	1,000
TOTAL ...	25,200

H. LEM. CAREY, *Lieut.-Col*, B.S.C.,
Examiner, Public Works Accounts, Bengal.

JAIL DEPARTMENT.

No. 1468.—*The 14th February* 1890.—Dr. Picachy made over charge of the Purneah Intermediate Jail to Surgeon D. G. Crawford on the forenoon of the 3rd February 1890.

A. D. LARYMORE,
Offg. Inspector-General of Jails, Bengal.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 1522.—*The 11th February* 1890.—Medical Department Notification No. 39, dated 4th January 1890, published in the *Calcutta Gazette* dated 8th ultimo, is cancelled.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

TREASURY NOTICE.

DEPUTY COLLECTOR BABOO NAGENDRA NATH GUPTA has been placed in charge of the Rajshahye Treasury and authorized to draw bills on other Treasuries.

HARI MOHON CHANDRA, *Personal Assistant.*

COMMR.'S OFFICE, RAJSHAHYE DIVISION, JULPIGORI, *the 15th February* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 14th February 1890.—Babu Rasamay Mitra, M.A., Second Master of the Hoogly Collegiate School (substantive *pro tempore* in class V), is appointed substantively to that class, with effect from the 26th August 1889, *vice* Babu Gauri Sankar Ghosal, deceased.

Babu Mahendra Lal Ghosh, Head Clerk in the office of the Inspector of Schools, Presidency Circle (class VI and officiating in class V), is appointed substantive *pro tempore* in class V, with effect from the 26th August 1889, *vice* Babu Ram Prakash Lal, promoted.

Babu Hari Nath Sen, B.A., Deputy Inspector of Schools, Nuddea (class VI and officiating in class V), will continue to officiate in class V, with effect from the 26th August 1889, *vice* Babu Hari Har Das, promoted.

Babu Golak Chandra Chakravarti, Third Master of the Krishnagar Collegiate School (class VI), is appointed to act in class V, with effect from the 18th November 1889, *vice* Babu Upendra Nath Maitra, promoted.

Babu Bhagwan Chandra Dutt, B.A., Third Master of the Patna Collegiate School, is appointed to act in class V, with effect from the 21st December 1889, *vice* Babu Debendra Nath Mookerjea, *seconded.*

Babu Uma Charan Ghosh, Second Master of the Comillah Zillah School (class VI), is appointed to act in class V, with effect from the 30th December 1889, *vice* Babu Girish Chandra Nag, on privilege leave.

Babu Nanda Lal Das, B.A., Third Master of the Howrah Zillah School (class VII), acted in class VI from the 21st June to the 5th August 1889, both days inclusive, *vice* Babu Bhola Nath Samanta Rao, on privilege leave.

Babu Nanda Lal Das is appointed to act in class VI, with effect from the 12th November 1889, *vice* Babu Dwarka Nath Banerjea, promoted.

Pundit Gobinda Sastri, Temporary Assistant Professor, Sanskrit College (substantive *pro tempore* in class VI), is confirmed in his appointment with effect from the 11th July 1887, and in class VI with effect from the 1st July 1889, *vice* Babu Rajendra Chandra Sastri, M.A., transferred.

Babu Adhar Chandra Banerjea, B.A., Fourth Master of the Krishnagar Collegiate School (substantive *pro tempore* in class VI), is appointed substantively to that class, with effect from the 26th August 1889, *vice* Babu Rasamay Mitra.

Babu Bihari Lal Chaube, Second Pundit of the Patna College (substantive *pro tempore* in class VI), will continue as substantive *pro tempore* in that class, with effect from the 26th August 1889, *vice* Mr. G. O'Connell, *seconded.*

Babu Dwarka Nath Ghosh, Sub-Inspector of Schools, Balasore (class VII and officiating in class VI), is appointed substantive *pro tempore* in class VI, with effect from the 26th August 1889, *vice* Babu Mahendra Lal Ghosh.

Babu Sital Prasad Dutt, Sub-Inspector of Schools, Midnapore (class VII and officiating in class VI), will continue to officiate in class VI, with effect from the 26th August 1889, *vice* Babu Nitya Nanda Day, on furlough.

Babu Gadadhar Gorai, Fourth Master of the Beerbhoom Zillah School (class VII), is appointed to act in class VI, with effect from the 6th September 1889, *vice* Babu Bhubaneswar Gupta, on furlough.

Maulavi Farak Ahmed, Sub-Inspector of Schools, Chittagong (class VII), has acted in class VI from the 4th to the 10th November 1889, *vice* Babu Kedar Nath Ray on leave on medical certificate, and from the 11th November 1889, *vice* Babu Kali Kamal Chatterjea, on privilege leave.

Babu Rajendra Mohan Dutt, First English Teacher of the Dacca Madrassa (class VII and officiating in class VI), will continue to act in class VI from the 11th November to the 21st December 1889, *vice* Babu Kedar Nath Ray, on leave on medical certificate, and from the 22nd December 1889, *vice* Babu Ram Krishna Chatterjee, on furlough.

Babu Suresh Chandra Deb, Head Clerk in the office of the Inspector of European Schools on probation (class VII), is appointed to act in class VI, with effect from the 18th November 1889, *vice* Babu Goluk Chandra Chakravarti.

Babu Satkari Chandra Ghosh, B.A., Additional Master of the Hindu School (class VII), is appointed to act in class VI, with effect from the 26th November 1889, *vice* Babu Bindu Lal Banerjea, promoted.

Babu Manmatha Kumar Ghosh, B A., Second Master of the Baraset Government School (class VII), acted in class VI from the 1st to the 21st December 1889, both days inclusive, *vice* Babu Ram Krishna Chatterjea, on furlough.

Babu Manmatha Kumar Ghosh is appointed to act in class VI, with effect from the 30th December 1889, *vice* Babu Uma Charan Ghosh.

Babu Jogesh Chandra Das, B A., Third Master of the Jessore Zillah School, acted in class VII from the 21st June to the 5th August 1889, *vice* Babu Nanda Lal Das, and from the 6th August to the 5th October 1889, both days inclusive, *vice* Babu Sital Chandra Chatterjea, on privilege leave.

Babu Jogesh Chandra Das is appointed to act in class VII, with effect from the 4th November 1889, *vice* Maulavi Farak Ahmed.

Babu Khetra Mohan Banerjea, B.A., Second Teacher of the Calcutta Normal School, acted in class VII from the 6th July to the 5th August 1889, both days inclusive, *vice* Babu Sital Chandra Chatterjea, on privilege leave.

Babu Khetra Mohan Banerjea is appointed to act in class VII, with effect from the 12th November 1889, *vice* Babu Nanda Lal Das.

Babu Jeut Lal, Ninth and Temporary Eighth Master of the Arrah Zillah School, is declared to have acted in class VII from the 4th August to the 22nd October 1889, both days inclusive, during the absence, on leave, of the late Maulavi Muhammad Jan.

Babu Raj Krishna Bose, Assistant in the office of the Director of Public Instruction (substantive *pro tempore* in class VII), is appointed substantively to that class, with effect from the 26th August 1889, *vice* Babu Adhar Chandra Banerjea.

Babu Suryya Kumar Ray, B A., Additional Fourth and now officiating Fourth Master of the Chittagong College (officiating in class VII), is appointed substantive *pro tempore* in that class, with effect from the 26th August 1889, *vice* Babu Kali Kumar Ganguli, promoted.

Babu Bijoy Krishna Banerjea, Sub-Inspector of Schools, Hoogly (officiating in class VII), will continue to officiate in that class, with effect from the 26th August 1889, *vice* Babu Bhushan Chandra Karmakar, under suspension.

Babu Sri Lal Som, B.A., Seventh Master of the Hoogly Collegiate School (officiating in class VII), will continue to officiate in that class, with effect from the 26th August 1889, *vice* Babu Sital Prasad Dutt.

Babu Narayan Chandra Mukerjea, B.A., Second and now officiating Head Master of the Rungpore Zillah School (officiating in class V), is appointed to class VII, with effect from the 23rd October 1889, *vice* Maulavi Muhammad Jan, deceased, but he will continue to officiate in class V until further orders.

Babu Aghar Nath Ghosh, B A., Second Master of the Chaibassa Zillah School, is appointed to act in class VII, with effect from the 18th November 1889, *vice* Babu Suresh Chandra Deb.

Babu Surendra Nath Sinha, B.A., Second Master of the Purneah Zillah School, acted in class VII from the 1st to the 21st December 1889, both days inclusive, *vice* Babu Satkari Chandra Ghosh.

Babu Mahendra Nath Sil, Fourth Master of the Howrah Zillah School, is appointed to act in class VII, with effect from the 30th December 1889, *vice* Babu Manmatha Kumar Ghosh.

The 15th February 1890.—Babu Kalinath Chaudhuri, Deputy Inspector of Schools, Rajshahye (class IV), is allowed leave of absence for one month and six days, under Article 371 of the Civil Service Regulations, in extension of that granted to him under orders of the 27th April 1889.

The 17th February 1890.—Babu Indra Kumar Chatterjea, Sub-Inspector of Schools under the District Board of Hoogly (class VI), has been granted by the Board leave of absence for one month, under Article 369 of the Civil Service Regulations, with effect from the 7th January 1890.

Babu Tarak Nath Sen, Deputy Inspector of Schools, Dacca (class III), is allowed leave of absence for two months, under Article 370 of the Civil Service Regulations, with effect from the 2nd February 1890, or any subsequent date on which he may avail himself of it.

Babu Tarak Bandhu Chakravarti, Deputy Inspector of Schools, Mymensingh, and now Temporary Head Clerk in the office of the Inspector of Schools, Eastern Circle (class V), is appointed to officiate as Deputy Inspector of Schools, Dacca, *vice* Babu Tarak Nath Sen, on leave.

Babu Kali Kamal Chatterjea, Departmental Sub-Inspector of Schools, Furreedpore (class VI), is appointed to officiate as Head Clerk in the office of the Inspector of Schools, Eastern Circle, *vice* Babu Tarak Bandhu Chakravarti, on deputation.

Babu Mohini Mohan Bose, B.A., Head Master of the Bogra Zillah School (class V), is allowed leave of absence for one month, under Article 306(*b*) of the Civil Service Regulations, in extension of that granted to him under orders of the 22nd November 1889

Mr. Dwija Das Dutt, M A., Lecturer in the College classes of the Bethune Girls' School (class V), is allowed leave of absence for two months and-a-half, under Article 372 of the Civil Service Regulations, with effect from the date on which he may avail himself of it.

A. CROFT, *Director of Public Instruction.*

NOTIFICATION.

IN accordance with the Government of Bengal Notification of the 23rd July 1887, notice is hereby given that the next half-yearly examination of compounders will be held at 11 A M. on Wednesday, the 2nd April 1890, and subsequent days, at the Campbell Medical School.

2. Every candidate must produce one of the following certificates—

(*a*). From the Superintendent of a Vernacular Medical School that he has attended regularly for one year the compounder class of the school.

(*b*). From the legally qualified Medical Manager of a Chemists' and Druggists' establishment, recognised by the Inspector-General of Civil Hospitals, Bengal, that he has been apprenticed for a period of three years in his establishment.

(*c*). From a Civil Surgeon, that he has assisted in the dispensing of drugs at the Sudder dispensary of a Civil station for a period of five years.

3. Applicants must register their names and submit their certificates, together with a fee of Rs 3, at least one week before the 2nd April 1890, at the office of the undersigned

NOTE.—The students belonging to the compounder class of a Vernacular Medical School will be exempted from paying this fee on producing a certificate from the Superintendent that they have already paid the school entrance fee.

4. Should any candidate fail to pass the required examination he will forfeit his fee.

N. B.—The attention of candidates is drawn to Rules in section (*b*) of the Government notification of the 23rd July 1887, or paragraph 2 (*b*) of this notification, from which they will observe that the Chemists' and Druggists' establishments, from the legally qualified Medical Managers of which they obtain their certificates, will have to be recognised by the Inspector-General of Civil Hospitals, Bengal, prior to the candidates applying to the Superintendent to register their names to appear at the examination.

S. COULL MACKENZIE, M D,
Supdt., Campbell Medical School.

CAMPBELL MEDICAL SCHOOL, CALCUTTA, *the 12th February* 1890.

NOTICE.

THE following candidates have passed the examination for the admission of females to the certificate class of the Medical College, Calcutta, held on the 11th February 1890, and two following days:—

1. Ellen L. Bridge.
2. Sarah E. Bridge.
3. Jochebed Cohen.
4. Leah Rebeiro.
5. L. M. A. Carroll.*

* Subject to re-examination in Arithmetic in February 1891.

A. CROFT, *Director of Public Instruction.*

NOTIFICATION OF THE BOARD OF REVENUE.

No. 113B.

NOTICE is hereby given that the Third Sale of Opium, the Provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Monday the 3rd March 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

		Chests.
Opium manufactured at the Patna Factory	... ...	2,250
Ditto at the Ghazeepore Factory	... ...	2,500
Total	...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. The may be ascertained by reference to the Notification issued onthe 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Boar of Revenue.

3rd.—The latest dates for deposit and clearance will be the 8th and 18th March 1890, respectively, that is to say no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 1-30 P.M. of Saturday, the 8th March 1890 and no Bank of Bengal Receipts in full payment of lots will be accepted afte 3-30 P.M. of Tuesday, the 18th March 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale in the present year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Wednesday, 2nd April	1890.	...	2,250	2,500	4,750
On or about Thursday, 1st May	,,	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
Total		...	20,250	22,500	42,750

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Calcutta, the 28th January* 1890.

Notification under Section 30 *of Act XII of* 1882 (*the Indian Salt Act*).

IN exercise of the powers conferred by the second paragraph of Notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 23 of Act XII of 1882, and published at pages 67-72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorizes each of the persons named below to exercise the powers of a Salt Revenue Officer :—

Locality.	Name.	Rank.	Powers to be conferred on each.	REMARKS.
Machgaon ...	Upendra Mahanty...	Peon ...	Salt Revenue Officer.	*Vice* Bonela Appanah, who has forfeited his appointment
	Sydoo Khan ...	Do. ...	Ditto ...	*Vice* Sheikh Ramzan, who has forfeited his appointment.
	Bhagoo Bhai ...	Do. ...	Ditto ...	*Vice* Gopiswami, deceased.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), *Madras, the 3rd February* 1890.

Notification under Section 30 *of Act XII of* 1882 (*The Indian Salt Act*).

IN exercise of the powers conferred by the second paragraph of notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published

at pages 67-72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari, and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorises each of the persons named below to exercise the powers of a Salt Revenue Officer :—

Locality.	Names.	Rank.	Powers to be conferred on each.	Remarks.
Manikpatna Circle	Sheik Muzthaza ...	Sub-Inspector, fifth grade.	Salt Revenue Officer.	Newly appointed.
	Rabash Behari Patnaik.	Peon, third grade	Ditto ...	*Vice* Kanha Charan Patnaik, resigned.
	Gopabhandu Patnaik	Duffadar, second grade.	Ditto ...	*Vice* P. Venkataswami, resigned.
	Narain Das ...	Peon, third grade	Ditto ...	*Vice* Anantha Padan, resigned.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), *Madras, the 3rd February* 1890.

Notification under Section 30 *of Act XII of* 1882 (*The Indian Salt Act*).

IN exercise of the powers conferred by the second paragraph of notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67-72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt Abkari and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorises each of the persons named below to exercise the powers of a Salt Revenue officer :—

Locality.	Names.	Rank.	Powers to be conferred on each.	Remarks.
Chandbally Circle	Kanoo Charan Pari	Duffadar, second grade.	Salt Revenue Officer.	*Vice* Abdul Gofoor, reduced.
	Peer Mahomed ...	Peon, third grade	Ditto ...	*Vice* Gulzar Singh, who has forfeited his appointment.
	Kangali Charan Dass	Ditto ...	Ditto ...	*Vice* Fohal Singh, dismissed.
	Bhajan Naik ...	Ditto ...	Ditto ...	*Vice* Gouri Naik, dismissed.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), *Madras, the 4th February* 1890.

Notification under Section 30 *of Act XII of* 1882 (*The Indian Salt Act*).

IN exercise of the powers conferred by the 2nd paragraph of Notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67—72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorizes the person named below to exercise the powers of a Salt Revenue Officer :—

Locality.	Name.	Rank.	Powers to be conferred.	Remarks.
Balasore Circle ...	Sheik Imam Bux ...	Peon, 3rd grade	Salt Revenue Officer.	*Vice* Sheik Abdal Rahiman, who has forfeited his appointment.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), MADRAS, *the 10th February* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IN supersession of the notification published at page 21, Part I of the *Calcutta Gazette* of the 1st ultimo, it is hereby notified for general information that a bye-election will be held on the 13th March next, in Ward No. III of the Goberdanga Municipality in the district of the 24-Pergunnahs, to elect a Commissioner for that Ward in the place of Baboo Dijaraj Chatterjea, who has ceased to be a Commissioner, for not attending six consecutive meetings.

A. BHATTACHARJEE, *Personal Assistant in charge.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 11th February* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held on the 23rd September last, Moonshee Mahabir Pershad and Moonshee Ram Nowmee Pershad were elected to be Commissioners of Ward No. I of the Hajipore Municipality, in the place of Baboo Doorga Pershad, who has been transferred, and Baboo Baijnath Pershad, who has ceased to be a Commissioner under section 20 of the Municipal Act.

J. BOXWELL, *Offg. Commissioner.*

PATNA COMMISSIONER'S OFFICE, BANKIPORE, *the 11th February* 1890.

NOTIFICATION.

IT is hereby notified for general information that an election will be held under section 27 of the Municipal Act III (B.C.) of 1884, on 25th March 1890, in Ward No. I of the Rampore Beauleah Municipality in the district of Rajshahye, for the purpose of electing a Commissioner for the said Municipality in the place of Baboo Taran Krisna Choudhury, who has ceased to be a Commissioner under section 20 of the Municipal Act.

E. E. LOWIS, *Commissioner.*

COMMR'S OFFICE, RAJSHAHYE DIVISION, *Camp Dhubgorie (Julpigori), the 14th February* 1890.

NOTIFICATION.

IT is hereby notified for general information that the following gentlemen are appointed to be members of the Managing Committee of the Charitable Dispensary at Suri, in the district of Beerbhoom, under Rule 22 of the Dispensary Manual:—

Magistrate and Chairman of the District Board	...	*Chairman.*
Vice-Chairman of the District Board	...	*Vice-Chairman.*
Baboo Madan Gopal Sing	...	*Secretary.*
„ Dhan Kristo Ghose	...	*Members.*
„ Dakhina Ranjan Mukerji	...	
„ Kamalakhya Chatterji	...	

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR'S. OFFICE, BURDWAN, *the 13th February* 1890.

NOTIFICATION.

IT is hereby notified for general information, under rule 23 of the Rules for the management of Charitable Dispensaries, that in supersession of previous order, the undermentioned gentlemen have been appointed to be members of the Committee for the management of the charitable dispensary at Goalundo in the district of Furreedpur:—

The Sub-divisional Officer, Goalundo	...	*Ex-officio.*
The Civil Medical Officer, ditto.	...	
Mr. W. R. Haughton.	Baboo Jogendra Chandra Banerjea.	
„ Richard William Morse.	„ Purna Chandra Chakrabarti.	
Baboo Atal Behari Ghosh, 1st Munsif.	„ Jodu Nath Sen.	

A. L. CLAY, *Offg. Commissioner.*

DACCA COMMISSIONER'S OFFICE, CAMP PEROZEPORE, *the 11th February* 1890.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 19, 1890.

PART I A.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS—MEDICAL.

The 13th February 1890.

No. 82.—The services of Surgeon W. H. B. Robinson, Bengal Establishment, are replaced at the disposal of the Military Department.

No. 84.—In exercise of the power conferred by section 17A of Act XXXVI of 1858 (an Act relating to Lunatic Asylums), as amended by Act XX of 1889, the Governor-General in Council is pleased to appoint the Lunatic Asylum at Dacca to be an Asylum to which any Magistrate or Judge exercising jurisdiction in the districts of Sylhet and Cachar may send lunatics.

POLICE.

The 10th February 1890.

No. 128.—The services of Mr. A. Shuttleworth, Assistant Superintendent of Police Bengal, are placed at the disposal of the Chief Commissioner of Assam.

A. P. MACDONNELL,
Secy. to the Govt. of India.

The following order, issued by the Government of India in the Revenue and Agricultural Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.—FORESTS.

Calcutta, the 14th February 1890.

No. 79-*F.C.*—The following temporary promotions are made during the absence, on three months' privilege leave, of Mr. A. L. Home, Conservator of Forests, 3rd (officiating 2nd) grade, Bengal, with effect from 30th December 1889, and until further orders:—

* * * * * *

Mr. H. H. Davis, Deputy Conservator, 1st grade, Bengal, to officiate in the 3rd grade of Conservators, and to hold charge of the Bengal Forest Circle.

* * * * * *

E. C. BUCK,
Secretary to the Government of India.

The following order, issued by the Government of India in the Foreign Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 14th February 1890.

No. 220-G.—The following changes are made in the graded list of the Political Department:—

* * * * * *

Consequent on the return from furlough of Captain C. W. Ravenshaw, Political Agent of the third class, and with effect from the 8th December 1889—

Mr. E. G. Colvin reverts from Officiating Political Agent of the third, to Officiating Political Assistant of the first class.

* * * * * *

Consequent on augmentation, with effect from the 1st January 1890—

* * * * * *

Mr. E. G. Colvin, Officiating Political Assistant of the first, to officiate as a Political Agent of the third class.

* * * * * *

W. J. CUNNINGHAM,
Offg. Secy. to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 19, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 4th February 1890—In accordance with the provisos in sections 252 and 276 of Act III (B.C.) of 1884, it is hereby notified for general information that the Lieutenant-Governor is pleased to direct that the provisions contained in the second clause of section 252 and in section 276 of the said Act, shall come into operation within the limits of the English Bazar Municipality in the district of Maldah, after the expiration of a period of six months from the date of the publication of this notification.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th February 1890.—It is hereby notified that the declaration, dated 27th May 1889, published at page 121, Part IB of the *Calcutta Gazette* of the 5th June 1889, for the acquisition of a plot of land in the town of Serampore, district Hooghly, which was required for the construction of a municipal latrine in that town, is hereby cancelled.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th February 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the District Board of Howrah :—

Local Boards by which elected.		Names of Members.
Uluberiah	...	Baboo Ambica Churn Bose. „ Mohendra Nath Roy. Mahamahopadhyaya Mohesh Chundra Nayaratna, C.I.E.
Howrah	...	Baboo Shib Chandra Mullick. „ Charu Charan Mukerjee.

The following gentlemen are appointed, under section 7 of the Act, to be members of the Board :—

The Deputy Inspector of Schools ... } *Ex-officio.*
The Civil Surgeon ... ... }
Baboo Gurudas Kundu Chowdhry.
Munshi Mudat Ali.
Baboo Hem Chunder Ghose.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th February 1890.—Whereas a notification, dated the 11th August 1889, was published at page 168, Part IB of the *Calcutta Gazette* of the 14th idem, declaring the intention of the Lieutenant-Governor to extend the provisions of Part VI of Act III (B.C.) of 1884 to the Dinapore Nizamut Municipality in the district of Patna, and whereas no objection has been raised to the proposal within one month from the date of the publication of the above notification within the Municipality, it is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 221 of the Act, and in accordance with the recommendation of the Commissioners of the Dinapore Nizamut Municipality, made at a meeting, the Lieutenant-Governor sanctions the extension of Part VI of the Municipal Act to the said Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th February 1890.—It is hereby notified for general information that, in accordance with the recommendation of the Commissioners of the Raneegunge Municipality, in the district of Burdwan, made at a meeting, and in the exercise of the power conferred on him by sections 9 and 11 of Act III (B.C) of 1884, the Lieutenant-Governor intends to revise the limits of the said Municipality so as to include within them the villages of Paresgunje and Saldanga, the boundaries of which are given below, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the Municipality :—

VILLAGE PARESGUNJE.

On the North—The lands of the village Ronye ;
On the South—East Indian Railway main line ;
On the East—The lands of the village Baktiarnagore and Paresgunje Bridge in Babooisole road ; and
On the West—Village Komarbazar.

VILLAGE SALDANGA.

On the North—The lands of the village Searsole and Baradahi tank ;
On the South—Khautsuli Bazar ;
On the East—The lands of Khautsuli ; and
On the West—The Raneegunge feeder road.

The boundaries of the Raneegunge Municipality, after the inclusion within its limits of the said villages of Paresgunje and Saldanga, will be as follows :—

On the North—A line from Baradahi tank to the bridge at Gorabazar on the feeder road ;
On the South—A line from the third culvert of the Igarah road to the bridge south of the flour mill in the Bankoora road ; thence to the railway bridge at Paresgunje ;
On the West—A line from the Gorabazar bridge to the Gopalband bridge ; thence *vid* the west bank of Jumnaband tank and the railway pumping station to the third culvert on Igarah road ; and
On the East—A line from Paresgunje bridge by the east bank of Rajarband tank and the bridge on the Mangulpore road to Baradahi tank.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 14th February 1890.—It is hereby notified that, under section 19, clause (3) of the Bengal Local Self-Government Act III (B C.) of 1885, the Lieutenant-Governor is pleased to appoint Baboo Surendra Nath Mozumdar to be a member of the District Board of Purneah in the place of Baboo Bhobotosh Banerjee, transferred.

H. J S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Baboo Aghore Chandra Mukerjee to be a member of the Sudder Local Board, in the district of Monghyr, *vice* Sheik Rahmat Ali, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—It is hereby notified that, under section 16, Act III (B.C) of 1884, the Lieutenant-Governor is pleased to appoint Moonshee Abdool Hafez to be a Commissioner of the Sasseram Municipality in the district of Shahabad, *vice* Shah Amjad Hossein, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt of Bengal.

NOTIFICATION.

The 17th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Barada Kant Sen to be a Commissioner of the Nattore Municipality in the district of Rajshahye, *vice* Moulvie Wakiluddin Ahmed, transferred.

H. J. S. COTTON,
Offg Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890 —It is hereby notified that, under section 27, Act III (B.C) of 1884, the Lieutenant-Governor is pleased to appoint Mr. J. Hay to be a Commissioner of the South Barrackpore Municipality, in the district of the 24-Pergunnahs, *vice* Mr. R. Leighton, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—It is hereby notified that, under section 19, Act III (B.C) of 1885, the Lieutenant-Governor is pleased to appoint Munshi Eshau Ali and Munshi Mosaheb Lal to be members of the Begusarai Local Board, in the district of Monghyr, *vice* Munshi Goorsahai Sing and Baboo Hari Pershad, resigned.

H J. S. COTTON,
Offg Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th February 1890.—It is hereby notified for general information that, in exercise of the power vested in the Local Government under section 351 of Act III (B.C) of 1884, the Lieutenant-Governor is pleased to confirm the proposal of the Commissioners of the Comillah Municipality, made at a meeting, to impose a penalty not exceeding Rs. 20 for the infringement, after notice, of bye-law No. 9 of the bye-laws framed by the Commissioners under section 350 of the Act, and published under Government notification, dated 12th November 1889, at page 246, Part IB of the *Calcutta Gazette* of the 20th idem.

The bye-law thus amended is as follows :—

" 9. Every owner or occupier of a house or premises living within the latrine area, except those who resort to public latrines, must construct a privy of his own within his premises, at least 1½ feet above ground, and must provide it with a proper moveable receptacle of metal or earthenware.

" The penalty for infringement, after notice, shall be a fine not exceeding Rs. 20."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Ram Sadan Bhattacharjea to be a Commissioner of the Purulia Municipality, in the district of Manbhoom, *vice* Mr. C. F. Farewell, who has ceased to be a Commissioner under section 20 of the Act.

H J. S COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890 —It is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 4 of Act XX of 1887, the Lieutenant-Governor has been pleased to declare that the provisions of section 3 of the Act with respect to wild birds shall apply, so far as regards the rules framed for the cantonment of Dum-Dum, to deer and hares.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—The following rules framed by the Military authorities of the Dum-Dum Cantonment under section 3 of Act XX of 1887, for the protection of wild birds and game within the limits of the Cantonment, are hereby confirmed by the Lieutenant-Governor under clause (4) of the said section of the Act, and are published for general information under clause (5) of section 6 of the General Clauses Act I of 1887:—

Rules.

1. "Wild bird," for the purpose of these rules, shall include jungle fowl, peafowl, pheasants, partridges, quail, snipe, plover, wild duck, teal and ortolans.

2. The Local Government having, by notification of this date, declared that the provisions of section 3, Act XX of 1887, shall apply to hares and deer, the following rules will apply to those animals also as well as to wild birds.

3. The "breeding season" for the purposes of these rules shall extend from the 15th March to the 15th August.

4. Whoever, during the breeding season, has in his possession in the Cantonment of Dum-Dum any wild bird, deer or hare recently killed, or exposes for sale any such bird or animal living or dead, shall be liable to a fine not exceeding Rs. 5 for each bird or animal.

5. Whoever, during the breeding season, imports into the Cantonment the plumage of any kind of wild bird recently killed or taken, or the fur or skin of any hare or deer recently killed or taken, shall be liable to a fine not exceeding Rs. 5 for each bird or animal.

6. In the case of a second conviction, the fine may extend to Rs. 10 for each bird or animal.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the District Board of Patna:—

Local Boards by which elected.	Names of Members.
Patna	Moulvie Abdul Hamid. Munshi Gajadhur Prosad. Moulvie Zahiruddin. Kazi Syed Reza Hossein, Khan Bahadoor.
Barrh	Moulvie Afzaluddin Ahmed. Sheikh Bahadur Ali Khan.
Behar	Munshi Kesho Dyal. Sheikh Amid Ali. Baboo Durga Prosad. Moulvie Mowla Bux.
Dinapore	Mr. Sharfuddin. Moulvie Sayad Zahiruddin.

The following gentlemen are appointed, under section 7 of the Act, to be members of the Board:—

The Joint-Magistrate ... ...
„ Road Cess Deputy Collector ... ...
„ Executive Engineer ... ... } *Ex-officio.*
„ Civil Surgeon ... ...
„ Deputy Inspector of Schools ... ...

Syed Tajamul Hossein Khan.
Moulvie Syed Fazl Imam, Khan Bahadur.
„ Syed Yusuf Imam.
„ Nasiruddin Ahmed.
Rai Isri Prosad.
Moulvie Nesar Ali.
Baboo Girjapat Sahai.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Patna Local Board, in the district of Patna, under section 25 of Act III (B.C.) of 1885, of Munshi Gajadhar Prosad to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Barrh Local Board, in the district of Patna, under section 25 of Act III (B.C.) of 1885, of Shaikh Bahadur Ali Khan to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Behar Local Board, in the district of Patna, under section 25 of Act III (B.C.) of 1885, of Moulvie Shamsul Huq to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Dinapore Local Board, in the district of Patna, under section 25 of Act III (B.C.) of 1885, of Mr. Sharfuddin to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—In the notification, dated the 7th January 1890, published at page 7, Part IB of the *Calcutta Gazette*, dated the 8th idem, containing the names of the gentlemen elected and appointed to be members of the Local Boards in the district of Burdwan, *for* "Baboo Bunwarilall Hali," "Baboo Annada Chundra Das," and "Mr. C. Earfe," *read* "Baboo Bunwari Lal Hati," "Baboo Ananda Chundra Das," and "Mr. C. Earpe."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified for general information that the Lieutenant-Governor is pleased, in the exercise of the power conferred on him by section 60 of the Bengal Local Self-Government Act III (B.C.) of 1885, to extend the provisions of section 99 of the said Act to the District Boards of the following districts:—

Burdwan.	Moorshedabad.	Tipperah.
Bankoora.	Dinagepore.	Noakhally.
Beerbhoom.	Rajshahye.	Chittagong.
Midnapore.	Rungpore.	Monghyr.
Hooghly.	Bogra.	Bhagulpore.
Howrah.	Pubna.	Malda.
24-Pergunnahs.	Julpaigoree.	Cuttack.
Khoolna.	Dacca.	Balasore.
Nuddea.	Backergunge.	Pooree.
Jessore.	Mymensing.	

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified for general information that under Rule 32 of the Rules framed under section 138 (*a*) of the Bengal Local Self-Government Act, 1885, the Lieutenant-Governor is pleased to fix Tuesday, the 15th April 1890, as the date for holding an election, under Rule 46 of the aforesaid Rules, in thana Raneegunge, in the district of Burdwan, for the purpose of filling a vacancy in the representation of that thana on the Local Board of Raneegunge.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Ambica Charan Bose to be a Commissioner of the Moheshpore Municipality, in the district of Jessore, *vice* Baboo Jaminipati Roy Chowdhury, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal

DECLARATION.

The 18th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Ghatal Municipality for a public purpose, viz., for erecting houses for the municipal mehters as well as for the construction of a road to those houses, in the village of Konenagore, pergunnah Barda, district Midnapur, it is hereby declared that for the above purpose 3 plots of land, measuring 5 cottahs and 13 chattacks of standard measurement, are required. The lands are bounded as follows :—

1st Plot.—Measuring 4 cottahs and 13 chattacks, is bounded on the North and East by the lakheraj land of Rama Nath Roy; on the South by the embankment of Choudhury's tank; and on the West by the Choudhury's tank.

2nd Plot.—Measuring 10 chattacks, is bounded on the North by the lakheraj land of Rama Nath Roy; on the South by paddy land; East by a public drain; and the West by the lakheraj land of Rama Nath Roy.

3rd Plot.—Measuring 6 chattacks, is bounded on the North and East by the public drain; on the West by lakheraj land of Rama Nath Roy; and on the South by the paddy land.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 17th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., widening Beny Madhub Nandan Brothers' 1st Lane, it is hereby declared that for the above purpose pieces of land Nos. 52, 51, 50, 49, 40, 39 and 4, Beny Madhub Nandan Brothers' 1st Lane, and No. 7, Russa Road North, in Bhowanipore, Dihi Punchannogram, district 24 Pergunnahs, measuring, more or less, 4 cottahs 18 chittacks and 8 square feet only, are required. The boundaries of the lands are as follows:—

Portion marked A on plan.—On the North, portion of No. 7, Russa Road North; on the South, Beny Madhub Nandan Brothers' 1st Lane; on the East, partly Russa Road North, and partly portion of No. 7, Russa Road North; and on the West, partly Beny Madhub Nandan Brothers' 1st Lane, and partly portion of No. 7, Russa Road North.

Portion marked B on plan.—On the North and East, Beny Madhub Nandan Brothers' 1st Lane; on the South, portion of No. 52, Beny Madhub Nandan Brothers' 1st Lane; and on the West, partly portion of No 52, Beny Madhub Nandan Brothers' 1st Lane, and partly a public drain.

Portion marked C on plan.—On the North and West, Beny Madhub Nandan Brothers' 1st Lane; on the South, portions of Nos. 50 and 51, Beny Madhub Nandan Brothers' 1st Lane; and on the East, a public drain.

Portion marked D on plan.—On the North and West, Beny Madhub Nandan Brothers' 1st Lane; and on the South and East, portion of No. 49, Beny Madhub Nandan Brothers' 1st Lane.

Portion marked E on plan.—On the North and East, portion of No. 4, Beny Madhub Nandan Brothers' 1st Lane; and on the South and West, Beny Madhub Nandan Brothers' 1st Lane

Portion marked F on plan.—On the North and East, Beny Madhub Nandan Brothers' 1st Lane; and on the South and West, partly portion of No. 39, Beny Madhub Nandan Brothers' 1st Lane, and partly portion of No. 40, Beny Madhub Nandan Brothers' 1st Lane.

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 15th February 1890.—The following gentlemen are appointed, under section 112 of Act IX (B C.) of 1880, to be members of the Lohardugga District Road Committee :—

Mr. T. F. Peppe. | Kumar Jogat Mohun Nath Sahi Deo.
Lal Iswar Nath Sahi Deo.

H. J. S. COTTON,
Offg. Secy to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 19, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Annual assessment.	Upset price.	Boundaries.	Remarks.
				B. K. Ch.	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahallapara in Bartoil.	Mohamedshahye.	31 7 14	13 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Ramesh Chandra Sarkar of Belgachi and dwelling-house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi ...	Aujongachi ..	Taregooniah	304 1 10	93 0 0	3,936 11 0	West of the dwelling-houses of Chuni Sheikh and Nabin Mandal Ghose and others, ryots of the zemindars of Chitna; north of the nij-jote lands of the aforesaid zemindars; east of the confines of Khairpur; south of the nij-jote lands of the aforesaid zemindars.	Mourashi jote of Ramesh Chandra Sarkar of Belgachi.
3	Dak Adda ...	Kulberia ...	Plassey ...	1 4 8	3 1 6	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Punchanan Rai; west of jote lands of Rani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. Bose, for Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	REMARKS.
			B K. CH.	RS. A. P.	RS. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B C) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Town Khas Mehal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 3rd day of March 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Khas Tehsil Office, Town Circle.

Serial No.	No. of tenures in register No. I.	Names of tenures and their situation.	ANNUAL RENTAL.		THE AMOUNT OF ARREARS FOR WHICH THE TENURES TO BE SOLD.			REMARKS.
			Rent.	Cess.	Rent.	Cess.	Total.	
		Thana town mouzah Bakalya, mehal Noabad.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
1	887	20134/59 Taluq Manindra Chandra Ghose and others.	3,373 6 0	225 9 0	843 6 0	56 11 0	899 11 0	
		Mouzah ditto, thana ditto.						
2	895A	20134/59(ক) Taluq Khetra Moni Dasi and others.	1,138 11 9	44 6 0	284 0 0	11 1 0	295 1 0	The entire taluq will be sold.
		Thana Fatikchir, mouzah Jouzkhala, mehal Noabad.						
3	4818	23673/548 Taluq Obedar Rahaman Khan	2,344 0	103 9 0	693 0 0	5 5 9	698 5 9	

Chittagong, the 14th January 1890. C. H. ALLEN, for Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		RS. A. P.				RS. A. P.	RS. A. P.	RS. A. P.
114-1	Kismut pergunnah Rajitpur.	2,121 4 7	.....	Share No. 1, 3as. 3g. 2a. 16d.	Shital Nath Bhanga and others.	420 2 8	.....	22 5 0
137-1	Kismut pergunnah Bhaluka	14,943 15 8	.....	Share No. 1, 4g. 13-5-8-1	Grijanath Ray Chowdhury and others	224 13 5	.....	31 10 5
169-4	Kismut Ramdanea, pergunnah Sarparajpur.	549 13 8	.....	Share No. 4, 2as. ...	Haran Chandra Majumdar and others.	68 11 8	.....	13 3 2
170-2	Kismut pergunnah Silimabad.	5,754 0 0	.....	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 01	.....	310 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 23th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpushar, Banamch Mahadev Mukhopadhya.	10,768 0 1½	.....	Residue share ...	Hara Sundari Chaudhurani and others.	8,073 5 4½	.....	3,624 7 4½
				Hisya 2a. 13g. 1kr. 1kt.	Monindra Nath Mukhopadhya and others.	1,794 10 9	.....	725 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hyderabad Khachak Pitrash market.	688 5 4½	Entire estate.	.....	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	60 12 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen Chakla Nurpur Hurunnessa.	703 9 11½	.....	Residue share ...	Hueni Khanam and others.	261 13 6½	....	78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	.....	Hisya 2g. 3kr. 3kt.	Durga Sunker Sen ...	5 7 9	.....	2 8 1
272	Pergunnah Shahebabad May Peshkash Dewan, Banamch Mirza Hyderali.	533 5 4	.....	Residue share ...	Rajendra Narain Bandapadhya.	133 5 1	.....	53 7 1
				Hisya 1a. 11½g. ...	Ditto ditto	52 1 4	.....	33 9 9
325	Tuppeh Moheswardi, Banamch Saha Newaj Khan, Elahi Newaj Khan.	14,133 5 4½	.....	Hisya 15g. 1kr. 1kt. 6t Ananda Mohon, Hari Mohon and Krishna Mohon Das.	Ananda Mohon Das and others.	677 2 6	.....	102 3 9
392	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Radha Madhav.	1,452 9 1	.....	Residue share ...	Nanda Kumar Guha...	425 6 1½	.....	150 11 6
393	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Raj Kishore Sen.	1,452 9 1	.....	Ditto ...	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	146 8 7
534	Pergunnah Bhawal Jawar Naluakot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	844 0 0	.....	Ditto ..	Jov Chandra Chaudhury and others.	74 15 9½	.....	43 12 2½
				Hisya 1a. Banga Chandra, Har Chandra Chakraverty.	Banga Chandra Chakraverty and others.	84 0 0	.....	14 5 0½
				Hisya 0g. 2kr. 1kt. Bramya Mayi Debya.	Brahmya Mayi Debya	16 4 8	.....	14 1 1
553	Pergunnah Mobarak Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	384 6 9½	.....	74 13 3
563	Shahar Chandina May Peshkash Chandina, Maulvi Abdul Ali.	1,896 10 8	.....	Ditto ...	Protap Chandra Das and others.	664 8 2	.....	170 4 6
569	Pergunnah Bikrampur, taluq Ram Ganga Bosu.	634 3 0	.....	Ditto	Sitamani and others ...	256 9 0	.....	93 0 0
4819	Pergunnah Patpushar, taluq Golam Hosen Chaudhuri.	930 3 11½	.....	Ditto	Amurannessa Khatoon, Manager for Maulvi Abdul Hye and others.	359 1 9	.....	86 15 11
				Hisya 1½a. Nalbannessa and others.	Najbannessa and others.	37 3 5	.....	8 9 10
				Hisya 3a. 2g. 1kr. 1½g. Hamdannessa and others.	Hamidannessa Khatoon and others.	181 12 2	.....	65 11 11
5849	Pergunnah Hashara Raja Ram Chaudhuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	.....	1 12 0	...
6551	Pergunnah Rajnagar, taluq Debi Prosad Ghosh.	642 2 1½	.....	Residue share	Kala Chand Shaha and others.	535 1 8½	.....	40 1 8
8434	Char Buktabali	584 0 0	Entire estate.	.....	Pran Nath Pare and others.	.....	153 0 0	.....
8660	Tuppeh Amirabad, Estate No. 234.	760 4 1½	Ditto	.....	Abhaya Charan Das and Brojendra Kumar Rai Chaudhuri.	...	72 14 3	.....
9069	Char Fukurhati within Char Krishnapura.	519 0 0	Ditto ...	.....	Kripa Mayi Debya and others.	.....	7 2 0	.....
9085	Mouzah Golara Baluchari within Char Jalua Kanta.	752 0 0	Ditto ..	.....	A. M. Bhoogy Shaheb, Receiver.	...	140 0 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	.....	Kailash Bashini and Bindhu Bashini Chaudhurani and others.	.....	209 0 0	... .
9762	Pergunnah Burdakhat Char Delwarpur.	4,190 0 0	Ditto ...	.....	Joharuddin Hyder and others.	.... .	1,052 0 0	... ..

Dacca Collectorate, the 8th February 1890.

L. HARE, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
98	Kismut Jot Kusturi, pergunnah Kotuali ...	A. R P. 62 0 12	Rs. 50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold the arrears due from it.
53	Shahapur, pergunnah Joynugal.	Rs. A. P. 3,400 7 0	.....	2*a*. 13*g*. 1*k*. 1 *krunti*.	Choudhuri Mahomed Ichcha and others.	Rs. A. P. 581 11 8	Rs. A. P.	Rs. A. P. 4 7 0
75	Turigram, pergunnah Shahajapur.	1,506 0 0	The whole	.....	Shekh Tarikulla ...	.....	0 2 0	.....
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0	.....	8*a*.	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	13 1 6
109	Daurka, pergunnah Ichchapukhuria.	1,803 1 0	.....	13*a*. 17*g*. 2*k*. ...	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy, minor, and others.	1,563 9 2	.....	3 10 1
122	Bajitpur, pergunnah Akbarshahi.	2,006 1 0	.....	9*a*. 8*g*. 1*kag*. 8 *til*.	Nil Mudhab Roy and others.	1,760 12 11	.....	14 4 6
936	Palitpur Basantapur, pergunnah Dadshahi.	751 10 0	The whole	.....	Ratan Kumari Bibi and others.	.....	218 8 0	.....

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Durbhunga will be put up to public and unreserved sale at the Collector's Office of that district on the 15th March 1890, corresponding with 2nd Chait 1297 F., on Saturday, at 12 o'clock, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

Serial No.	Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1	437	Ersal Gang Barar Hurdaspore, pergunnah Bala Gutch.	Rs. A. P. 547 2 10	.....	Patti Ijmali 9 annas 12 gundas.	Mosamat Jasoda Koer, mother and guardian of Adyia Parshad Singh, Babou Sital Parshad Singh, Shew Gulam Singh, Singheswar Parshad Singh, Nar Singh Parshad, Chitar Narain Singh, Kunj Narain Singh and others.	Rs. A. P. 306 8 8	.....	Rs. A. P. 306 8 4

Durbhunga Collectorate, the 12th February 1890. A. AHMAD, Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Choitra 1296 (B S), for the kist ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1	Tuppeh Azimpur, hissa 8*a.* 19*g.*	Rs. A. P. 2,431 4 4½	.....	Joint share, 6*a.* 10*g.* 3*k.* 1½ 10.	Asmat Ali Khan Choudhury and others.	Rs. A. P. 917 7 6½	Rs. A. P.	Rs. A. P. 6 10 10
1416	Taluq Bancha Ram Bosu, hissa 8*a.*, pergunnah Bozergomedpur.	1,550 5 3	.....	3*a.* under separate account.	Dinabandhu Sen ...	290 5 10½	.....	45 6 4½
1487	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Durpa Narayan Roy, and Mritunjaya Mukherjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6*a.* 18½*g.* 1½*kt.* Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½	... ..	24 13 1
1548	Taluq Mohammad Hamza, pergunnah Bozergomedpur.	1,159 3 8	.....	8*a.* Ijmali share .	Grish Chandra Mukhapadhyaya and others.	579 9 10	.....	28 4 11
1578	Pamoty Alexander taluq, pergunnah Bozergomedpur.	4,833 12 0½	.....	2*a.* Ijmali share ...	Jagadiswari Debya ...	604 3 2½	.....	113 2 11½
1185	Radha Krishna, Haranand Roy, and Kalidas Siddhanta taluq, pergunnah Bozergomedpur.	24,036 10 10	.....	5*a.* 11½*g.* 1½*k.* Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	... ..	43 15 1½
1628	Ramna Bamna Jear Mohammud Sati taluq, pergunnah Bozergomedpur.	19,487 10 8	.....	8*a.* 15½*g.* 19-15-6½-1. Ijmali share.	Golam Asad Choudhuri and others.	10,676 12 1	.....	2,119 11 7
1633	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,032 2 11½	.....	2*a.* Ijmali share ...	Jagadiswari Debya ...	257 12 2½	.....	51 13 5½
1633	Ditto ditto ...	2,032 2 11½	.....	3*a.* under separate account.	Taramani Debya ...	386 10 7	.....	78 6 2
1751	Radha Kanta Sen taluq, pergunnah Chandradwip.	906 10 8	.....	18*a.* Ijmali share	Kali Mohan Mohinta and others.	453 5 4	.....	2 13 9½
1764	Pergunnah Dakhin Shahabazpur, 3*a.* 1½*g.* 1*kt.* share.	8,563 6 8	Whole estate.	.....	Mr. Alexander Toms, executor of estate J. P. Wise and others.	.....	5,333 10 8½	.....
1916	Haveli Selimabad tappeh, hissa 10*g.*	1,045 7 9½	.....	5*a.* 10*g.* Ijmali share	Bama Sundari Gupta and others	359 5 5½	.....	72 1 11½
1916	Ditto ditto .	1,045 7 9½	...	6*a.* 15*g.* share under separate account.	Kailash Chandra Sen Majumdar and others.	441 1 8½	..	89 13 0½
3255	Pergunnah Ratandi Kalikapur, hissa 2*a.*	3,154 11 5	.....	7*a.* 6½*g.* 2*kts.* Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,445 14 5	.....	403 9 7
3257	Pergunnah Ratandi Kalikapur, hissa 4*a.*	6,309 6 10	.....	10*g.* Ijmali share ...	Jagadiswari Debya ...	197 2 6	.....	67 5 5
3258	Ditto ditto	6,309 6 10		6½*g.* 2*kts.* Ijmali share	Ditto ..	131 7 4	... ..	45 15 11
4546	Padma *alias* Ramjanepur, pergunnah Kashimpur Silapatti.	5,383 0 0	Whole estate.	. ....	Abinash Chandra Ghosa and others.		421 8 0	..
4550	Kukua Khag Dom, Domingo Manual, DeSilva, Braja Mohan Sen, Durga Mohan Das, Musammat Krishna Mohini Dast taluq, pergunnah Bozergomedpur.	9,796 0 0	Ditto ..	.. ...	Jagadeswari Debya and others.	.....	For 1888-89 8,249 4 4, 1889, kist September 153 0 0, 1890, kist January 1,324 0 0	.....
							9,646 4 4	
4757	Madanpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ...	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others.	.....	371 10 6	...
4897	Tiakhali, pergunnah Chandradwip.	533 14 3	.....	10*a.* 5*g.* Ijmali share	Nistarini and others	342 0 4	.....	32 0 6
4897	Ditto ditto ...	533 14 3	... ..	1*a.* 15*g.* share under separate account.	Tarini Charan Somoddar.	58 6 4	.....	5 7 6
5008	Chak Barguna, Haola No. 16.	668 0 0	Haoladari right of the whole Haola.	...	Ramjan Haoladar and others.	.....	167 0 0	...
5196	Ramdeb Datta taluq, mouzah Barahipur, pergunnah Gopalpur Mirjanagar.	699 0 0	Whole estate.	.. ...	Jearuddin Haoladar and others.	.....	0 10 0	.....
5211	Kumaria Chur, hissa 13*a.* 18½*g.* 1*kt.*, pergunnah Uttar Shahabazpur	1,169 0 0	.... .	3*a.* 8*g.* 2*kt.* 11½*til.* Ijmali share.	Durga Prosonna Roy and others.	259 5 0	.....	178 0 1
5228	Chhota Lumchi Dhali Chur.	1,238 0 0	.....	3*a.* 8½*g.* 1*kt.* 30*dhur.* Ijmali share.	Mr. A. Toms, executor of estate of J. P. Wise and others.	262 11 7	.....	107 7 0
6449	Tappeh Sultanabad, hissa 7½*g.*, Asmannessa Khatun and others.	542 1 4	Whole estate.	.....	Moulvie Abdul Wased and others.	.....	5 10 4	.....

Backergunge Collectorate, the 15th February 1890.

POORNO CHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Furreedpore will be put up for sale at the Collector's Office of that district on the 25th March 1890, corresponding to 13th Choitra 1296 (B. S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
249	Panchashasari, pergunnah Chandpratap.	744 0 0	Whole ...	.....	Iswar Chandra Saha and others.	.....	180 0 0	.....
284	Panchashasari, pergunnah Sahajapur.	1,521 0 0	Do. ...	.....	Jadub Chandra Bagchi and others.	.....	300 11 0	.....
3555	Taluq Ratneswar Pal Choudhury, pergunnah Nasarat Shahi.	2,559 13 8	.....	Hissa 4 annas ...	Uma Prosonno Pal Choudhury and others.	630 13 0	.....	61 11 6
3870	Taluq Ram Prosad Rai, pe gunnah Kharagpur.	524 12 9½	Whole ...	.....	Abhoy Coomer Rai and others.	.....	27 15 5½	.....
4004	Taluq Kali Sanker Sen, pergunnah Rajnagore.	1,140 4 8½	Do. ...	.....	Kumadini Kant Baruiya Choudhuri and others.	.....	128 5 11	.....
4028	Zemindari Basudev Rai, pergunnah Rajnagore.	4,119 4 9½	.....	Hissa 10 annas excepting the specific share bearing a revenue of Rs. 63-1.	Soshi Mohan Pal Choudhuri and others.	2,574 9 9½	.....	816 5 10
4028	Ditto ditto ...	4,119 4 9½	.....	Hissa 6 annas, ditto.	Gopi Mohan Rai Choudhuri and others.	1,481 10 0	.....	185 13 6
6220	Hissa Nilmoni Sen, pergunnah Rajnagore.	597 12 3	Whole ...	.....	Raj Coomer Pal and others.	.....	83 8 7½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa 7½ annas ..	Raj Coomer Pal and Mohima Chandra Pal.	280 3 1½	.....	74 0 2½
6220	Ditto ditto ...	597 12 3	Whole ...	.....	Haro Lal Pal and others.	.....	5 7 4½	.....
6220	Ditto ditto .	597 12 3	.....	Hissa ½ anna ...	Haro Lal Pal ...	18 11 0	..	4 14 11½
6305	Gaslai char, apertaining to char Madan Sankar.	670 12 0	Whole ...	.....	Kripa Moyee Debya, Poorna Chandra Bandopadhya and others.	.....	11 7 3	.....

Furreedpore Collectorate, the 15th February 1890. PURNO CHANDRA RAI, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fasli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
261	Ibraheempoor, pergunnah Brail.	585 0 9	.....	12a. 5g. 1kr, 1k. ...	Bansakhi Lall and others.	410 2 9	.....	51 4 0
907	Akhta, pergunnah Babra Chumparun.	1,173 5 9	.....	3a. 12g. 2c. 2k. 12r. ...	Babu Salookat Deo Narayan.	206 8 1	.....	141 8 0½
921	Hazidpoor Dowlat, pergunnah ditto.	4,460 12 8	.....	8a. 1g. 1k. 1d.	Rajcoomar Babu, Deo Nunden Singh and others.	2,240 13 2	.....	113 8 6½
996	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a, 1c. 1d.	Babu Shimbhoo Pershad, Chundika Pershad and others.	1,042 14 5	.....	449 8 11½
1089	Maksoodpoor Karmah, pergunnah ditto.	1,067 11 9	.....	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others.	483 13 1	.....	25 1 9½
3404	Bidupoor, pergunnah Hajipoor.	1,707 8 3	The whole estate.	.....	Ramkishun Panday	1,707 3 3	156 12 0	.....
3528	Joorawanpoor, pergunnah ditto.	719 10 7	.....	16g. 2c. 2k. 5r.	Harbuns Singh ...	37 7 8	.....	6 0 8
3528	Ditto	719 10 7	.....	6g. 3c 3r. ...	Deo Narayan Singh ...	19 11 0	....	3 7 5
3528	Ditto	719 10 7	.....	19g. 3c. 2k. 2d. 15r. ...	Patul Kuer	45 0 0		4 11 11
3528	Ditto	717 10 7	.. ...	2a. 14g. 1k. 5r.	Upnet Narayan ...	121 10 3		17 8 6
3639	Manarpoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,301 5 11	295 1 4	.....
5402	Shariffpoor, pergunnah Nanpoor	506 9 1	.....	5a. 6g. 2c. 2k.	Sher Bahadur Singh and others.	337 12 8	.....	20 14 5
9462	Erazee Nowberrar-Bungra, pergunnah Gudah Sand.	865 5 0	.....	1a. 6g. 2c. 2k.	Mangul Pershad ...	72 2 2	... .	9 0 4
9462	Ditto	865 5 0	.....	2a. 13g. 1c. 1k. 1d. ...	Debi Dutt Singh ...	144 5 4	.....	8 0 4
9462	Ditto	865 5 0	.....	5a. 6g. 2c 1k. 2d. .	Raohh Pal Singh ..	288 7 0	. ...	0 1 4
9462	Ditto	865 5 0	.....	6a. 13g. 1c. 1k.	Braham Deo Narayan Singh.	360 6 8	..	30 0 6
9894	Raja Pakurchakla, Gurjowl, pergunnah Bisarah.	958 2 8	The whole estate.	.....	Nawnidh Lall and others.	998 2 8	62 6 0	.....

Mozufferpore Collectorate, the 15th February 189 . E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Hooghly will be put up to public and unreserved sale at the Collector's office of that district on the 24th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2	Mukoondopore, pergunnah Chowmahs.	14,550 2 9	The whole estate.		Rajendra Narain Nundy and others.		450 9 11	
10	Radhakantobati, pergunnah Pandooa.	624 11 11	...	The entire estate except the share of which separate account has been opened.	Sreehurry Nundy and others.	596 13 11	..	59 6 0
11	Chhalalpore, pergunnah Pandooa.	707 6 2	...	Ditto ditto	Aisa Khaton *alias* Abadonnessa Bibee and others	235 13 2		25 11 7
26	Malikapore, pergunnah Baligari.	10,595 3 6	.	Ditto ditto	Nil Komul Mitter and others.	4,507 14 8		1,881 7 4
49	Hatisala, pergunnah Chowmahs.	11,569 5 0	...	Ditto ditto	Raja Peary Mohun Mookerjee and others	7,712 14 0	...	1,009 10 0
54	Thaipara pergunnah Pandooa.	1,066 1 0	...	7*a.* 19*g* 1*k.* 8*kk.* 6½ *kag* share of seventeen mouzahs, "Thaipara and others" of which separate account has been opened and marked A	Woomadotonnessa Bibee.	476 0 0	...	8 0 0
56	Champahati, pergunnah Pandooa.	606 7 2	...	The entire estate except the share of which separate account has been opened.	Bidhoomoni Dassee and others.	598 8 6½		170 0 0
65	Nundingram, pergunnah Pandooa.	1,975 9 0	...	8 Annas share of the estate of which separate account has been opened and marked A.	Kesub Chandra Chatterjee.	987 13 0		30 0 0
117	Rajhat, pergunnah Khoosalpore.	726 0 3	...	The entire estate except the share of which separate account has been opened	Jeebunkristo Gossain and others.	365 11 3		35 11 3
159	Chatra Baday, pergunnah Boro.	740 9 5	...	Ditto ditto	Bhola Nath Mitter and others.	43 15 1	...	0 1 10
160	Ditto ditto	740 9 5	...	2*a.* 13*g.* share of the estate of which separate account has been opened and marked A.	Chandra Kanto Mookerjee and others.	145 9 4	...	4 10 0
191	Haripore, pergunnah Chowmahs.	851 3 2	...	The entire estate except the share of which separate account has been opened.	Suthdoyal Banerjee and others.	728 2 2	...	87 4 10
2074	Jeerut Chur, pergunnah Hatkanda.	532 5 6	The whole estate.	....	Joy Kristo Mookerjee	...	266 0 0	...
3521	Digra, pergunnah Boro.	530 3 5	The whole estate.	.....	Ramdoyal Banerjee	.	198 0 0	..
3541	Khar Sarai, pergunnah Boro.	1,311 10 0	...	The entire estate except the share of which separate account has been opened	Ramdoyal Banerjee	655 13 6		162 8 0
3904	Ramkristopore, pergunnah Boro.	563 14 9	...	8 Annas share of the estate of which separate account has been opened and marked A.	Ranee Surnomoyee Dassee.	281 15 0	..	103 0 0
4085	Sheikpore, pergunnah Baira.	10,445 11 0		The entire estate except the share of which separate account has been opened.	Girish Chundra Roy and others.	1,740 3 0		649 7 2

Hooghly Collectorate, the 14th February 1890. MAHOMED ISRAIL, for Collector of Hooghly

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B C) of 1871, that the undermentioned dependent tenures in the Satkanca Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad.

Serial No.	Nos. of tenures on Register No 1.	Names of tenures and their situations.	ANNUAL RENTAL		THE AMOUNT OF ARREARS FOR WHICH THE TENURES TO BE SOLD.			REMARKS.
			Rent.	Cesses	Rent.	Cesses.	Total	
			Rs A. P	Rs A. P.	Rs A. P.	Rs A P.	Rs A. P	
1	6 1823	*Thanna Satkanca, mouzah Napora.* Taluk Raj Kumar Roy and Brojeshwari, baboit taluk Bisheshwari Naba Kumar, No 541—468	1,017 3 0	44 8 6	310 0 0	13 7 0	323 7 0	The entire taluks will be sold.
2	20 420	*Thanna Satkanca, mouzah Chambal* Taluk Tajannissa Chowdhurance ..	1,193 4 10	176 13 6	745 4 10	110 6 6	855 11 4	

C. P CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
423	Paverpore, pergunnah Futtehjungpore.	3,414 9 6	. .	5a. 10g. 2k. 17til share bearing No. 425-0.	Kala Chand Biswas and others	1,175 6 11	.....	1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole estate.	.....	Messrs. Robert Watson and Co. and others.	.....	7,581 6 0	.....
815	Ditto ditto ..	1,160 5 0	Ditto ...	.....	Sreekrishna Bhowmik and others.	.....	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, and under Act VII (B.C.) of 1868, that the undermentioned estates or shares of estates in the district of Mymensingh will be put up for sale at the Collector's Office of that district on the 25th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
9	Zemindari pergunnah Attiah, hissa 2½ annas.	6,729 2 0	.....	Ejmali share exclusive of the separate accounts opened under sections 10 and 11 of Act 11 of 1859.	Nazamon Nessa Khanum Chowdhurain and others.	2,418 6 0	.....	36 6 6
70	Zemindari pergunnah Juanshaye.	10,525 14 0	.....	Separate share 2 annas 5 gds. 2 cr. 6 dips.	L. M. Pogose, L. G. Mary Pogose and others.	1,503 12 0	.....	372 15 5
96	Zemindari hissa 4½ annas with bejabeta taluq, pergunnah Nasirujial.	7,197 10 0	.....	Separate share 11 gds. 2cr. 2 kg 10 til. of kismut Singdha.	Sheik Hazari and others.	1 10 0	.....	1 4 0
96	Ditto ditto ...	7,197 10 0	.....	1das. of taluq Dip Chandra Rai.	Mohim Chandra Roy Chowdhuri	204 5 0	.....	70 0 0
96	Ditto ditto ...	7,197 10 0	.....	1½gds. share of the estate.	Mahamed Mafidar Rohoman.	230 12 0	.....	79 13 0
121	Ihaneswar Badia, pergunnah Nasirujial.	729 10 0	.....	14ans. 19gds. 2cr. 2kg. ejmali share.	Apisullah Bhuya and others.	711 2 0	.....	275 4 0
124	Payandabeg, hissa 13 as. 6 gds. 2 cr. 2 kranta tuppeh Hasradi.	1,796 2 0	.....	7½as. share of Kismat Patna Bhanua, 6as share of Nagor Hasradi, 2as of Sir Mauza, 8 gds. of chakley Maha atpur and 16as. of other mouzas.	Upendra Kishore Roy Chowdury and others.	358 15 0	.....	24 9 0
137	Zemindari pergunnah Susung.	1,988 4 0	.....	15gds. 1cr. 2kranta and 16til share of the estate.	Joy Nath Roy ..	96 1 0	.....	33 5 0
	Ditto ditto ...	1,983 4 0	.....	8gds. 1cr. 2kranta 1 til share of the estate.	Biswesvari Debia and others.	52 5 0	.....	29 1 0
144	Zemindari pergunnah Sherepur, hissa 1a. 15g.	2,643 8 0	.....	Joint share exclusive of separate account opened under Act XI of 1859.	Dharani Kanta Chowdhuri and others.	1,614 1 0	.....	3 14 6
144	Ditto ditto ...	2,643 8 0	.....	2a. 14g. 8cr. 3 dips separate share of the estate.	Har Kumar Chowdhuri.	453 3 0	.....	143 9 0
5000	Char Ghugra Kandi, pergunnah Sherepur.	765 15 0	Whole ..	.....	Radha Ballav Chowdhuri and others.	.....	2 0 0	.....
6179	Juar Jagat Char, pergunnah Bardakhat, tuppeh Kurikhayl.	754 8 0	.....	1 anna separate share of the estate.	Ram Keshab Shaha and others.	47 3 0	.....	23 5 0
7503	Taluq Nurunessa Khanum with ejmali mouzah Taratia Digar, tuppeh Ranbhawal.	1,208 0 0	Whole ..	.....	Administrator General of Bengal and others.	.....	140 9 8	.....
				Second class.				
5013	Chak Shakchura, Tuppeh Ranbhawal.	511 0 0	.....	18ans. 17g. share of the estate.	Goloke Chandra Bhattacharjya.	506 4 0	.....	136 6 0
5398	Char Jungldi and others, pergunnah Sherepur.	1,220 0 0	Whole ...	.....	Kishori Mohan Chowdhuri and others.	.....	104 12 9	. ..

Mymensingh Collectorate, the 14th February 1890. JUGGOBONDHU KHAN, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale

1	2	3	4	5	6	7	8	9	10
Touji No	Name of mehal and pergunnah	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS
20	Kismat 1*a* 6*g* 2*c* 1*k* 4*dt*., pergunnah Bardakhat.	Rs. A. P. 13,319 4 9	...	3*a.* 1½*kara* share	Srimati Barni Khanam and and others.	Rs. A. P. K. 2,508 0 8 2½	Rs. A. P.	Rs. A. P. K. 1,157 1 7 5 due up to Agrahayan 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859
20	Ditto	13 319 4 9	... ..	14*g* 1*kara* 2 [illegible] *kt* share	Nabin Chandra Das Roy and others.	599 9 2 14½		64 9 5 2 ditto.	Remaining portion that has not been separated
30	Kismat 3*a.*, pergunnah Choudhagano.	1,360 0 6	....	4*a* share	Amrika Charan Lashker and others.	340 0 0 17½	. ..	46 2 0 12½ ditto.	Ditto ditto
230	Taluk Ramdhan Majumder, pergunnah Mohabutpur	1,189 13 10	.....	10*a* 13*g.* 1*kara* 1*kt.* share.	Alam Rajah *alias* Idhansazi Chowdry and others.	793 3 11 0	.....	92 9 11 0 ditto.	Ditto ditto
255	Taluk Shahazadi Khanam, pergu nah Narayanpur.	746 10 8	.....	3*a.* 11*g.* 1*kara* 2*dt.* share	Srimati Shafaranessa Bibi and others.	165 14 9 9½	...	0 5 0 0 ditto.	Ditto ditto
272	Mouzah Ahamudpur, pergunnah Bardakhat	1,228 6 0	...	5*a* 6*g.* 2*kara* 2*kt.*	Ishan Chandra Roy.	409 7 4 0	...	139 5 4 0 for kist November 1889	Ditto ditto
401	Jowar Bisharah, pergunnah Bardakhat.	3,141 3 0	.....	5*a* 6*g.* 2*kara* 2*kt.*	Ditto	1,047 1 0 0	.. ...	356 5 8 0 ditto.	Ditto ditto
450	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,360 0 0	Whole	..	Golam Moula	.. ..	110 0 0 for kist November 1889	.....	...
1925	Chur Nagarer kandi, No 211, pergunnah Utter Shahapur, resumed under Regulation 2 of 1819	1,296 10 9	Do. ...	.. .	Dr. George Manook and others.		296 3 11 ditto.	.....	Property of individuals settled for 11 years from 1294 to 1304 B.S
1928	Mouzah Gangercoat, pergunnah Bardakhat	895 0 0	Do.	. ....	Braja Nath Roychowdry and others.	.....	76 14 5 ditto	..	Mesdi taluk settled for 17 years from 1288 to 1304 B.S.
1933	Jowar Tmohitta, pergunnah Bardakhat.	663 12 3	Do.	.....	Durga Charan Das Majumder and others.	.. ...	210 5 3 ditto.	.	Mesdi taluk settled for 18 years from 1287 to 1304 B.S
1933	Mouzah Damrah Chairpara, pergunnah Bardakhat.	1,451 1 3	Do.	..	Kali Das Bhadra and others.	... ..	277 12 0 ditto.	.. ...	Mesdi taluk settled for 14 years from 1291 to 1304 B.S.
1933	Jowar Rasullabad, pergunnah Bardakhat.	3,969 14 11	Do.	. .. .	Kamalakanta Padder and others.	.....	1,264 10 6 ditto.	.....	Mesdi taluk settled for 13 years from 1292 to 1304 B.S.
1933	Jowar Daulatpur, tappeh Kurikhai, pergunnah Bardakhat.	1,436 12 0	Do.	.....	Former owner—Ram Gopal Chakraborty and others. Auction purchaser—Mohesh Chandra Chakravarti Sale not yet confirmed.	...	493 14 0 ditto.	.....	Mesdi taluk settled for 50 years from 1261 to 1310 B.S.

Tipperah Collectorate, the 15th February 1890. R. T. GREER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates in the district of Moorshedabad will be put up for sale at the Collector's office of that district on 21st March 1890, corresponding with 9th Choitro, Friday, 1296 (B.S.), for arrears of revenue due up to 13th January 1890.

1	2	3	4	5	6	7	8	9	10
Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS
9	Kismut pergunnah Kasipore, pergunnah Kasipore	Rs. A. P. 8,074 3 0	... ..	1*a.* 8*g* 9*kgs.* ...	Srinath Roy Chowdhury, &c.	Rs. A. P. 720 7 0	Rs. A. P.	Rs. A. P. 53 0 4	Of the entire estate, 1*a.* 8*g* 9*kgs.* share belonging to Srinath Roy Chowdhury, &c., the sudder jumma of which is Rs. 720-7, will be sold.
202	Kismut Huda Barnagar, pergunnah Muraripore.	4,062 13 1 Police 72 2 6	.....	8*a.* 19*g.* 2*karas*	Moharanee Brojo Sundari Debya.	2,277 10 11 Police 40 8 0	.....	963 8 10 Police 10 14 0	Of the entire estate, joint property (jimali) of 8*a* 19*g* 2*karas* belonging to Brojo Sundari Debya, the sudder jumma of which is Rs. 2,316-2-11 will be sold.
		4,134 15 5				2,318 2 11		974 6 10	
407	Kismut mouzah Syud Kuluta, pergunnah Futehsinah	370 11 1	Entire mehal.	...	Syud Faalal Karim, &c.	.....	15 14 5	.. ...	
887	Kismut Gunj Jangipore, pergunnah Gonkur.	714 8 11	Ditto .	.....	Bepin Behari Nath	...	179 14 10	.....	
1486	North of kismut Jangipore char Enayenagar, Bahuhata and Khiderpore.	528 2 0	Ditto	.....	Proprietress and settlement-maker, Rukshmini Barmanya.	.. ...	Current 396 0 0 Arrear 1,436 9 6	.. ...	The proprietary and settlement right of the estate from 1st April 1887 up to 31st March 1894 will be sold.
							1,832 9 6		

Moorshedabad Collectorate, dated Berhampore, the 13th February 1890. J. G. RITCHIE, Offg. Collector.

Statement of the Affairs of the Bank of Bengal for the week ending 11th February 1890.

LIABILITIES.	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office Rs. 84,21,101 3 2			
Ditto ditto at Branches ,, 1,02,98,573 2 11	1,87,19,674	6	1
Other Deposits at Head Office and Branches	3,02,10,413	3	10
Bank Post Bills, &c.	4,86 545	6	1
Sundries	9,63 519	3	11
Rupees	7,61,80,182	3	11

ASSETS.	Rs.	A.	P.
Government Securities	20,48,940	0	0
Other authorized Investments	70,00,296	0	0
Loans on Government and other authorized Securities	1,56,52,754	9	3
Accounts of credit on ditto ditto	1.06,63,753	4	1
Bills discounted and purchased	1,99,39,279	8	11
Balances with other Banks	6,86,706	0	5
Bullion	1,73,814	10	6
Dead Stock	12,26,410	2	1
Stamps	13,186	11	0
Sundries	3,14,519	15	7
	5,77,19,660	13	10
Cash and Currency Notes at Head Office Rs. 63,09,868 12 3			
Cash and Currency Notes at Branches ,, 1,21,50,652 9 10	1,84,60,521	6	1
Rupees	7,61,80,182	3	11

F. T. LEWIS, Offg. Chief Acctt.
Rate for Demand Loans 10 per cent.
Percentage 36·6.

By order of the Directors.
W. D. CRUICKSHANK,
Secy. and Treasurer.

BANK OF BENGAL,
Calcutta, 13th February 1890.

(3549 - 1)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sal beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all Rs. 2-4 per cubic foot, provided the scantlings [illegible] selection.

over at a [illegible]
are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Jheel Press Company, "Limited," in Liquidation.

A GENERAL Meeting will be held at the Registered Office of the Company on Monday, 17th March 1890, at noon, to receive the final accounts of the liquidation.

J. D. MAXWELL, Liquidator.

Calcutta, the 15th February 1890. (3553 - 1)

Soom Tea Company, "Limited."

NOTICE is hereby given that the Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Saturday, the 22nd February next, at 10-30 o'clock A M, for the purpose of receiving the Directors' Report, passing the accounts for the year ending 31st December 1889, declaring a dividend and transacting such other business as may be brought before the Meeting.

By order of the Board.
WILLIAMSON, MAGOR & Co., Secretaries.

CALCUTTA, the 21st January 1890. (3462—2)

Bishnauth Tea Company, Limited.

NOTICE is hereby given that an Extraordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Wednesday, the 19th February 1890, at 12 o'clock noon, for the purpose of declaring an *ad interim* dividend on account of season 1889, and transacting such other business as may be brought before the meeting.

By order of the Board.
WILLIAMSON, MAGOR & Co., Secretaries.

Calcutta, 24th January 1890. (3477—2)

Great Eastern Hotel Wine and General Purveying Company, "Limited."

NOTICE is hereby given that an *ad interim* dividend of 2½ per cent., equivalent to Rs. 2-8 per share, will be payable, free of income-tax, on and after Monday, the 3rd March next, to Shareholders whose names are on the Company's Register on the 23rd instant.

In accordance with the Articles of Association, the Transfer Register will be closed from the 24th February to 2nd March, both days inclusive.

By order of the Board,
E. F. LONGLEY, Secretary.

Calcutta, 15th February 1890. (3551—1)

Lost.

THE lower halves of the Government Promissory Notes Nos. 236782 and 236783 of the 4 per cent. loan of 1865 for Rs. 500 each, originally standing in the name of the Bank of Bengal, and last endorsed to General Dumber Shum Shere Jung Bahadur Rana, the proprietor, by whom it was never endorsed to any other person, having been lost, notice is hereby given that payment of the above notes and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, Calcutta, and that application is about to be made for the issue of a duplicate in favour of the proprietor. The public are cautioned against purchasing or otherwise dealing with the abovementioned securities.

RAKHAL CHUNDRA CHATTERJEE, Secretary to the Representative of the Government of Nepal.

78, Dhurumtola Street, the 6th February 1890.

(3520—3)

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 15th February 1890.

PARTICULARS.	3½ per cent. transfer loan of 1853-54.	4 PER CENT. LOANS							4½ PER CENT. LOANS				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	GRAND TOTAL.
		Of 1832-33.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879 4½ per cent. portion.	Total			
Balance of 31st January 1890 ...	54,700	11,29,387	25,25,900	2,48,46,000	1,06,71,800	3,94,72,500	1,98,76,700	9,85,22,287	39,500	71,48,000	11,08,59,600	11,80,47,100	1,33,800	32,200	21,67,90,087
ADD—															
Amount enfaced at Madras between 1st and 15th February 1890	.....	.....	.....	4,500	.....	5,000	.....	9,500	.....	.....	2,600	2,600	.....	.....	12,100
Amount enfaced at Bombay between 1st and 15th February 1890	.....	.....	.....	2,500	1,000	500	.....	4,000	.....	.....	.....	.....	.....	.....	4,000
Amount enfaced at Calcutta between 1st and 15th February 1890	.....	.....	.....	14,000	23,700	2,000	.....	39,700	.....	.....	41,100	41,100	.....	.....	80,800
	54,700	11,29,387	25,25,900	2,48,67,000	1,06,96,500	3,94,80,000	1,98,76,700	9,85,75,487	39,500	71,48,000	11,09,03,300	11,80,90,800	1,33,800	32,200	21,68,86,987
DEDUCT—															
Amount written off in the London registers	.....	.....	.....	1,90,000	65,200	1,66,500	4,000	4,25,700	.....	.....	63,500	63,500	.....	.....	4,89,200
Balance on 15th February 1890 ...	54,700	11,29,387	25,25,900	2,46,77,000	1,06,31,300	3,93,13,500	1,98,72,700	9,81,49,787	39 500	71,48,000	11,08,39,800	11,80,27,300	1,33,800	32,200	21,63,97,787

NOTE.—From 9th June 1867 to 15th Dec. 1889—Enfaced from India 6,175 lakhs; re-transferred from London 5,347 lakhs.
" 16th Dec. 1889 " 31st " " " " 9 " " " " " 11 "
" 1st Jan. 1890 " 15th Jan. 1890 " " " 5 " " " " " 21 "
" 16th " " " 31st " " " " " 3 " " " " " 3 "
" 1st Feb. " " 15th Feb. " " " " 1 " " " " " 5 "

6,193 — 5,387

Balance against India ... 806 lakhs.

PUBLIC DEBT OFFICE, BANK OF BENGAL,
Calcutta, the 17th February 1890

(3558—1)

W. D. CRUICKSHANK
Secretary and Treasurer.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.		Number, mark and description.	Consignees.	Ships.
1890.				
Feb.	1	4 Packages, 426 in a diamond, A B & Co. outside ...	Order ...	S. S. "Rosetta."
,,	1	2 Cases, 104 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,,	1	1 Case, 155 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,,	6	1 Case, A H C	Ditto ...	Ditto.
,,	6	4 Cases, B & Co. in a diamond, L S & Co. outside ...	Ditto ...	Ditto.
,,	6	1 Case, 25 in a diamond, B B below	Ditto ...	Ditto.
,,	6	3 Cases, 25 in a diamond, B K below	Ditto ...	Ditto.
,,	6	3 Bottles quicksilver, B	Ditto ...	Ditto.
,,	6	3 Cases, John Bless, Esq.	Addressed ...	Ditto.
,,	6	4 Crates, 1st Battn. E. L. Regtt.	Ditto ...	Ditto.
,,	6	1 Case, B C in a diamond, C & Co. top	Order ...	Ditto.
,,	6	5 Cases, 10131 in a diamond, B R & B outside ...	Ditto ...	Ditto.
,,	6	1 Case, B & Co. in a diamond	Ditto ...	Ditto.
,,	6	10 Cases, C B & Co. by S in a diamond	Ditto ...	Ditto.
,,	6	1 Case, 321 in a diamond, C below	Ditto ...	Ditto.
,,	6	1 Case, 8705 in a diamond, D U E F outside ...	Ditto ...	Ditto.
,,	6	1 Truss, 770 in a diamond	Ditto ...	Ditto.
,,	6	1 Case 955 in a diamond, G S below	Ditto ...	Ditto.
,,	6	1 Case, 980 in a diamond, G S below	Ditto ...	Ditto.
,,	6	100 Cases, H C in a block, P P C below	Ditto ...	Ditto.
,,	6	127 Packages, no mark	Ditto ...	Ditto.
,,	6	5 Cases, J N B	Ditto ...	Ditto.
,,	6	1 Case, K in a diamond, T N S S outside ..	Ditto ...	Ditto.
,,	6	1 Package, Messrs. Lyell & Co.	Addressed ...	Ditto.
,,	6	4 Cases, L O C K E	Order ...	Ditto.
,,	6	8 Bales, 872 in a diamond, L B top	Ditto .	Ditto.
,,	6	19 Packages, M & Co. by D in a diamond ...	Ditto ...	Ditto.
,,	6	18 Packages, M & Co. in a diamond, T G top	Ditto ...	Ditto.
,,	6	1 Case, M & Co. in a diamond	Ditto ..	Ditto.
,,	6	2 Cases, N C J in a diamond, G A & Co. outside ...	Ditto ...	Ditto.
,,	6	1 Case, N & S in a diamond	Ditto ...	Ditto.
,,	6	1 Keg, Revd. R. Nagel	Addressed ...	Ditto.
,,	6	1 Case, N M I in a diamond	Order ...	Ditto.
,,	6	2 Cases, 1954 in a diamond, O S top	Ditto ...	Ditto.
,,	6	25 Bottles quicksilver, O	Ditto ..	Ditto.
,,	6	1 Case, O S & Co. by B	Ditto ..	Ditto.
,,	6	4 Packages, P S by 232 in a diamond, J below ...	Ditto ..	Ditto.
,,	6	2 Chairs, C F Park, Esq.	Addressed ...	Ditto.
,,	6	26 Bottles quicksilver, R	Order ...	Ditto.
,,	6	2 Cases, Mr. Risley	Addressed ..	Ditto.
,,	6	1 Case, 499 in a diamond, R C M B outside ..	Order ...	Ditto.
,,	6	2 Cases, R W	Ditto ...	Ditto.
,,	6	3 Cases, 309 in a triangle, S S top	Ditto ...	Ditto.
,,	6	3 Cases, 150 by 769 in a diamond, T B & Co. outside	Ditto ...	Ditto.
,,	6	1 Case, T N in a diamond, J G & S outside ...	Ditto ...	Ditto.
,,	6	11 Bottles quicksilver, V	Ditto ..	Ditto.
,,	6	1 Case, 926 in a diamond, W N & Co. outside ...	Ditto ...	Ditto.
,,	6	1 Case, 679 in a diamond, W N & Co.	Ditto ..	Ditto.
,,	6	9 Packages, 273 in a diamond, W T H B below ...	Ditto ...	Ditto.
,,	6	1 Case, 580 in a diamond, W below	Ditto ...	Ditto.
,,	6	1 Case, A W N Wyatt, Esq.	Addressed ...	Ditto.
,,	6	1 Parcel, K F	Order ...	Ditto.
,,	6	1 Parcel, P E Jenkins	Addressed ...	Ditto.
,,	6	1 Parcel. A Pakenham, Esq.	Ditto ...	Ditto.
,,	6	1 Case, F & P	Order ...	Ditto.
,,	5	1 Case, diamond, A G G outside	Ditto ...	S.S. "Rauenthaller."
,,	5	197 Cases, 760 in a block within a triangle	Ditto ...	Ditto.
,,	5	2 Cases, 558 in a triangle, C H L & Co. top ...	Ditto ...	Ditto.
,,	5	6 Crates, J C in a diamond, S & S C below ...	Ditto ...	Ditto.
,,	5	1 Crate, no mark. or S T & S	Ditto ...	Ditto.
,,	5	1 Case, 63 in a block within a triangle, W H N below.	Ditto ...	Ditto.
,,	5	2 Cases, B M	Ditto ...	Ditto.
,,	6	51 Packages, no mark	Ditto ...	Ditto.
,,	6	1 Bundle nail rod iron, S H or no mark ...	Ditto ...	Ditto.
,,	6	5 Bars angle iron, N G S or no mark	Ditto ...	Ditto.
,,	6	1 Iron plate, E C or no mark	Ditto ..	Ditto.
,,	6	2 Iron plates, G or no mark	Ditto ...	Ditto.
,,	6	2 Iron plates, H in a diamond, or no mark ...	Ditto ..	Ditto.

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Feb. 6	1 Iron joist, S J C	Order ...	S S. "Rauenthaller."
„ 6	1 Keg, N S C by M C in a diamond	Ditto ...	Ditto.
„ 6	1 Keg, P P C in a diamond, C & Co. top, T L Madras below.	Ditto ...	Ditto.
„ 6	1 Case, U H & Co.	Ditto ...	Ditto.
„ 3	2 Cases, A W P...	Ditto ...	S.S. " City of Agra."
„ 3	1 Bag, C O S S	Ditto ...	Ditto.
„ 3	1 Bale, 494 in a triangle, C H L & Co. top ...	Ditto ...	Ditto.
„ 3	1 Case, 44 by 3936 in a diamond	Ditto ...	Ditto.
„ 3	1 Case, 45 by 3937 in a diamond	Ditto ...	Ditto.
„ 3	3 Cases, F E R in a diamond, N C top ...	Ditto ...	Ditto.
„ 3	2 Bales, H S M Y by 589 in a block	Ditto ...	Ditto.
„ 3	5 Cases, H I in a diamond, M top	Ditto ...	Ditto.
„ 3	38 Sleepers, I S R or no mark	Ditto ...	Ditto.
„ 3	1 Case, B C by S M	Ditto ...	Ditto.
„ 3	28 Packages, no mark	Ditto ...	Ditto.
„ 3	1 Casting, H H in a diamond, J M top... ...	Ditto ...	Ditto.
„ 3	1 Joist, Kalite	Ditto ..	Ditto.
„ 3	5 Cases, K V in a diamond, Cawnpore below ...	Ditto ...	Ditto.
„ 3	6 Cases, L O C K E	Ditto ...	Ditto.
„ 3	1 Case, M in a diamond	Ditto ...	Ditto.
„ 3	2 Cases, Messrs. T N. Sing & Son, 4, Clive Ghat Street.	Addressed ...	Ditto.
„ 3	1 Keg, T M & Co.	Order ...	Ditto.
„ 3	2 Bales, 343 in a diamond, W T H B below ...	Ditto ...	Ditto.
„ 3	1 Case, W L	Ditto ...	Ditto.
„ 3	6 Cases, 28 in a block within a triangle, W H N below.	Ditto ..	Ditto.
„ 3	1 Piece T-iron, Kalite, or no mark	Ditto ...	Ditto.
„ 3	1 Bundle, iron Runga	Ditto ...	Ditto.
„ 3	10 Bales, W in a double triangle, D below ...	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 15th February 1890. (3555—1) G. H. SIMMONS, Vice-Chairman.

Notice.

PURSUANT to the orders of Government, dated the 29th June 1831, particulars of the undernoted items of articles held by the Port Commissioners as Receivers of Wrecks, each article being of value above Rs. 100, are published for general information in accordance with the provisions of section 76, Act VII of 1880.

Date.	Recovery number.	Description of articles.	Weight.	Approximate value.	Where recovered.	Where lying.
		Port Approaches.	Cwt. qr. lbs.	Rs.		
18th August 1889 ...	10 P. A.	One country anchor	45 0 0	225	Poojally Creek	Port Commissioners' Wreck and Anchoyard.
22nd „ „ ...	11 „	One Rodgers' patent anchor	15 0 0	260	Ditto ...	Ditto.
27th „ „ ...	12 „	One chain 1⅛" of 30 fathoms	37 2 3			
4th September „ ...	13 „	One Rodgers' patent anchor	50 0 0	150	Shisbaria ...	Ditto.
11th „ „ ...	14 „	One English anchor	27 0 0	215	Budge-Budge	Ditto.
27th November „ ...	17 „	One chain 1⅛" of 15 fathoms	16 1 10			
3rd December „ ...	19 „	One anchor	60 0 0	300	Binelipatam ...	Ditto.
27th „ „ ...	21 „	One English anchor	40 0 0	330	Kulpee ...	Ditto.
27th „ „ ...	22 „	One chain 1⅛" of 15 fathoms	26 3 26			
		One country anchor	23 0 0	240	Do. ...	Ditto.
		One chain 1⅛" of 38 fathoms	35 3 23			
27th „ „ ...	23 „	One Rodgers' patent anchor	30 0 0	390	Saugor ...	Ditto.
		One chain 1¼" of 32 fathoms	46 3 0			
27th „ „ ...	26 „	One country anchor	50 0 0			
		One wooden stock...	.....	1,060	Ditto ...	Ditto.
		One chain 1⅛" of 80 fathoms	162 3 12			
27th „ „ ..	33 „	One country anchor	38 0 4	960	Ditto ...	Ditto.
		One chain 1⅛" of 86 fathoms	154 2 25			
8th January 1890 ...	26 „	One country anchor	15 0 0	245	Ditto ...	Ditto.
		One chain 1⅛" of 55 fathoms	34 1 24			
10th „ „ ...	27 „	One Rodgers' patent anchor	36 3 8			
		One stock	.. ...	1,585	Ditto ...	Ditto.
		One chain 1⅛" of 135 fathoms	274 3 8			
13th „ „ ...	28 „	One English anchor	43 1 23			
		One stock	8 2 0	1,530	Ditto ...	Ditto.
		One chain 2⅛" of 135 fathoms	255 3 26			
4th February „ ...	31 „	One country anchor	12 0 0			
		One chain 1⅛" of 62 fathoms	40 0 26	305	Ditto ...	Ditto.
10th „ „ ...	32 „	One country anchor	13 0 0			
		One chain 1⅛" of 12 fathoms	9 2 3	110	Ditto ...	Ditto.
10th „ „ ...	33 „	One English anchor	42 0 0			
		One chain 1⅛" of 10 fathoms	17 3 27	290	Ditto ...	Ditto.

E. J. BEAUMONT, Asst. Conservator.

Port Commissioners' Office, Calcutta, the 11th February 1890. (3545 & 3546—3)

INSOLVENT ESTATES.

QUARTERLY STATEMENT MADE UP TO 30TH SEPTEMBER 1889

ESTATES.	Whole amount of receipts.	WHOLE DISBURSEMENTS.		Balance.	Portion of balance applicable to dividends now payable.	Net balance.	Probable outturn of the dependencies.
		Dividends paid.	Other payments				
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P	Rs. A. P.	Rs. A. P.	
Alexander and Co. ...	2,91,087 1 9	2,32,414 0 9	48,899 13 8	9,773 3 4	8,968 8 2	804 11 2	Nothing further recoverable.
Adam, Scott and Co. ...	1,31,609 5 4	1,06,547 4 0	23,086 5 1	1,975 12 3	1,109 15 0	865 13 3	Ditto ditto.
Anderson and Co., William ...	2,678 8 1	.....	1,845 4 3	833 3 10	625 11 6	207 8 4	Ditto ditto.
Allen, Deffell and Co. ...	1,57,553 10 4	1,26,063 13 5	30,521 2 3	968 10 8	946 1 5	22 9 3	Ditto ditto
Asiatic Marine Insurance Office ...	8,40,361 11 1	6,92,443 5 11	1,38,990 12 9	8,927 8 5	8,621 4 0	306 4 5	Ditto ditto.
Alexander, Wallace & Co. ...	24,142 11 7	16,356 2 7	6,404 3 1	1,382 5 11	1,268 10 4	113 11 7	Ditto ditto.
Anstruther and Co. ...	17,005 3 3	7,346 9 10	3,747 4 1	5,911 5 4	5,516 5 7	394 15 9	Ditto ditto.
Anderson, George ...	1,806 12 6	.....	953 9 3	853 3 3	733 0 2	120 3 1	Ditto ditto.
Atkinson, W. L. ...	17,234 12 9	5,330 14 8	8,863 2 11	3,040 11 2	2,357 11 2	683 0 0	Ditto ditto.
Arrakiel, J. G. ...	1,024 5 6	52 6 1	394 15 9	576 15 8	129 2 7	447 13 1	Ditto ditto.
Audhor Chunder Shaw ...	18,849 9 11	8,134 4 9	8,242 15 4	2,472 5 10	1,207 3 3	1,265 2 7	Ditto ditto.
Aycab Hadjee Abdool Rohomon ...	11,461 10 3	7,788 13 0	2,088 9 11	1,584 3 4	1,469 13 4	114 6 0	Ditto ditto.
Anundo Mohun Dutt and another ...	3,739 2 3	367 1 1	2,501 14 2	870 3 0	557 11 5	312 7 7	Ditto ditto.
Arrathoon, C. M. (M. J. Galstaun and Co.)	11,291 11 0	8,312 14 3	1,837 0 10	1,141 11 11	1,121 15 10	19 12 1	Ditto ditto.
Amerto Krisna Bose ...	1,401 11 0	... .	... .	1,401 11 0	.....	1,401 11 0	Outstanding: in course of recovery.
Andrews, J. ...	1,939 8 5	950 10 0	348 5 8	640 8 9	45 3 3	595 5 6	Ditto ditto.
Balfour and Co. ...	5,61,316 3 6	3,04,469 3 4	2,55,181 14 1	1,665 2 1	713 10 2	951 7 11	Nothing further recoverable.
Boyd and Co. ...	30,673 14 3	10,773 10 4	13,425 1 11	6,475 2 0	6,364 3 4	110 14 8	Ditto ditto.
Bruce, Shand and Co. ...	8,36,536 3 5	4,96,777 1 0	3,32,316 3 0	7,442 15 5	6,618 1 2	824 14 3	Ditto ditto.
Bischoff, Beer and Co. ...	2,640 5 8	18 11 6	2,107 13 5	513 12 9	449 13 5	63 15 4	Ditto ditto.
Bodry, John (1st) ...	1,705 7 1	79 1 11	547 6 0	1,078 15 2	582 1 8	496 13 6	Ditto ditto.
Bluett, James ...	873 0 0	40 0 11	164 14 1	668 1 0	610 0 11	58 0 1	Ditto ditto.
Bhoobun Mohun Mitter ...	4,000 0 0	.. ...	2,163 7 9	1,836 8 3	1,794 12 6	41 11 9	Ditto ditto.
Baboo Lall Shaw and others ...	1,35,530 2 7	87,983 0 10	30,736 10 9	16,810 7 0	16,562 15 0	247 8 0	Ditto ditto.
Buldeo Doss (Buldeo Doss Chuttoorbhooj)	3,802 3 1	1,424 5 4	985 1 6	1,392 12 3	1,386 12 11	5 15 4	Ditto ditto.
Bhore Mull Gondaka ...	16,319 3 6	11,188 14 2	3,226 1 6	1,904 3 10	1,774 6 11	129 12 11	Ditto ditto.
Brunet, Saliz, and Latapie ...	15,235 0 0	8,047 9 5	5,625 0 5	1,562 6 2	1,445 10 8	116 11 6	Ditto ditto.

Brindabun Chunder Sett	...	4,306	0	3	... ..			1,379	0	2	2,927	0	1	.....			2,927	0	1	Schedule not filed as yet.
Bagot, W. N.	...	4,149	4	9	39	3	7	3,498	4	2	611	13	0	402	4	5	209	8	7	Nothing further recoverable.
Bodry, John (3rd)	...	4,425	4	6	1,112	3	5	2,384	6	10	928	10	3	642	13	0	285	13	3	Ditto ditto.
Belletty, M.	...	1,680	0	0	1,024	13	10	116	13	10	538	4	4	370	9	10	167	10	6	Ditto ditto.
Bungshee Dhur Khettry and others (Nannoo Mull Khettry).		1,04,279	10	2	71,344	8	8	16,555	1	2	16,380	0	4	15,898	8	8	481	7	8	Ditto ditto.
Bhoobun Mohun Bannerjea and another		1,58,927	12	8	36,465	9	4	1,16,176	2	5	6,286	0	11	4,938	12	0	1,347	4	11	Ditto ditto.
Beer Chand Coondoo and another	...	2,201	8	3	591	5	6	946	8	9	663	10	0	641	9	3	22	0	9	Ditto ditto.
Bhola Nauth Doss	...	8,100	0	0	29	11	2	2,449	11	7	620	9	3	524	5	11	96	3	4	Ditto ditto
Bona Chand Sodasook Small	...				.. ..			..			..			.. ..			. .			
Brewster, C. C., and W. Nicholl (Wilson, Mackenzie and Co)		794	0	10	.....			.....			794	0	10	.....			794	0	10	Schedule not filed as yet.
Baker, F. W., separate Estate	...	2,337	15	3	1,010	14	10	123	9	0	1,203	7	5	1,157	14	6	45	8	11	Nothing further recoverable.
Bheekun Chand Ratty	...	1,452	6	4	834	0	8	74	6	5	543	15	3	310	4	5	233	10	10	Ditto ditto.
Colvin and Co.	...	1,84,427	8	8	1,36,470	10	10	31,296	10	8	16,660	3	2	16,586	15	0	73	4	2	Nothing further recoverable.
Cruttenden, Mackillop and Co.	...	99,959	11	1	72,895	6	5	20,263	11	4	6,900	9	4	5,743	13	4	1,056	12	0	Ditto ditto.
Cockerell and Co.	...	17,19,733	5	0	3,86,102	12	10	13,26,584	4	11	7,046	3	3	6,701	5	10	344	13	5	Ditto ditto.
Cannyloll Burral and another	...	21,208	5	11	17,472	10	1	2,990	11	5	745	0	5	632	14	3	112	2	3	Ditto ditto.
Crompton, G. F.	...	5,413	5	4	2,747	14	3	2,124	12	6	540	10	7	487	13	3	52	13	4	Ditto ditto
Cannyram, Chooneeloll	...	9,623	9	3	5,676	2	8	2,212	5	4	1,735	1	3	1,523	9	7	211	7	8	Ditto ditto.
Charles Nephew and Co.	...	5,15,143	12	9	3,99,296	9	9	98,146	12	8	17,700	6	4	16,002	4	5	1,698	1	11	Ditto ditto.
Castello, M. G.	...	3,201	7	9	2,227	5	6	264	10	2	709	8	1	372	14	3	336	9	10	Ditto ditto.
Carr, Robert	...	11,349	3	8	9,779	11	7	952	5	9	617	2	4	603	6	5	13	11	11	Ditto ditto.
Child, W. C.	...	22,090	10	0	16,599	6	0	4,704	11	10	786	8	2	691	4	8	95	3	6	Ditto ditto.
Cantopher, Robert	...	907	10	6	196	15	8	137	7	1	573	3	9	542	11	1	30	8	8	Ditto ditto
Christophoridi, C.	...	5,587	12	2	4,009	9	3	697	9	10	880	9	1	787	10	5	92	14	8	Ditto ditto.
Cole, George (Perry and Co.)	...	3,018	10	4	1,212	5	3	904	7	7	901	13	6	642	5	1	259	8	5	Ditto ditto
Clark, A. M. (J. H. Fergusson and Co.)	...	23,174	8	2	12,877	0	8	7,606	1	11	2,691	5	7	1,518	12	6	1,172	9	1	Ditto ditto.
Cowie, David, and another (Colvin, Cowie and Co.)		1,62,966	8	11	91,356	14	6	63,245	15	4	8,363	11	1	6,994	7	1	1,369	4	0	Ditto ditto.
Colville, Gilmore and Co.	...	9,743	1	1	2,535	0	0	3,511	6	3	3,696	10	10	.. ...			3,696	10	10	Ditto ditto.
Chuttolall Sewpersaud	...	31,248	11	0	. ...			18,013	9	6	13,235	1	6	.....			18,235	1	6	Outstanding: in course of recovery.
Conti, G. A.	...	3,567	10	8	849	7	7	1,092	4	4	1,625	14	9	383	3	11	1,242	10	10	Nothing further recoverable
Cohen, S. E., and E. E. Cohen	...	1,806	3	0	280	1	10	1,012	9	4	513	7	10	317	12	5	195	11	5	Ditto ditto.
Chunder Canto Shaw	...	43,972	1	6	6,220	1	6	36,801	13	0	950	3	0	920	9	6	29	9	6	Ditto ditto
Coleman, C.	...	1,716	8	0	986	7	5	111	9	9	618	6	10	610	13	5	7	9	5	Ditto ditto.
Coverjee Bomanjee	..	945	14	9	143	14	2	59	6	8	742	9	11	703	15	11	38	10	0	Ditto ditto.
Collins, W. R.	...	2,581	6	8	... ..			.....			2,581	6	8	.. ..			2,581	6	8	Ditto ditto.
Carberry, R J., and another	...	2,436	1	0	... ..			296	7	10	2,139	9	2	.....			2,139	9	2	Outstanding: in course of recovery
Dickson, William	...	1,843	0	2	1,039	2	3	241	14	0	561	15	11	506	13	8	55	2	3	Nothing further recoverable.
Dove, J. M.	...	12,991	0	0	10,202	7	6	2,214	0	8	574	7	10	317	0	6	257	7	4	Ditto ditto.

Estates.	Whole amount of receipts.	Whole Disbursements.		Balance.	Portion of balance applicable to dividends now payable.	Net balance	Probable outturn of the dependencies.
		Dividends paid	Other payments.				
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs A. P	Rs. A. P	Rs A. P.	
Dorrett Brothers ...	2,164 9 6	34 7 7	1,405 2 10	724 15 1	660 0 5	64 14 8	Nothing further recoverable.
DeSilva, John Emanuel ...	13,643 11 3	11,131 11 5	851 8 9	1,660 7 1	1,346 7 2	313 15 11	Ditto ditto.
DeSouza, John ...	1,334 0 3	.....	805 9 0	528 7 3	.. ..	528 7 3	Ditto ditto.
Dumat, Alfred ...	6,224 5 6	1,051 12 9	2,024 3 5	3,148 5 4	2,815 3 0	333 2 4	Ditto ditto.
Durrant, Edward ...	2,223 1 6	816 5 4	890 8 5	516 3 9	479 10 8	36 9 1	Ditto ditto.
Dennison, G. R. ...	29,828 14 7	26,967 6 10	1,607 6 4	1,254 1 5	787 0 0	467 1 5	Ditto ditto.
Duff, David ...	2,137 12 9	1,041 8 5	489 15 9	606 4 7	483 9 4	122 11 3	Ditto ditto.
Denonauth Dey ...	12,182 12 4	7,804 8 7	2,315 6 4	2,062 13 5	1,631 1 4	431 12 1	Ditto ditto.
Durka Nath Mitter ...	5,938 12 0	731 10 10	4,641 13 5	565 3 9	447 8 9	117 11 0	Ditto ditto.
Dencnauth Paul ...	834 4 3	.....	119 12 9	714 7 6	.....	714 7 6	Ditto ditto.
Damoodur Doss ...	4,018 15 9	1,715 1 4	999 14 6	1,303 15 11	1,160 13 4	143 2 7	Ditto ditto.
Debrunner, Julius ...	65,912 4 7	58,106 7 4	7,188 1 7	617 11 8	491 5 3	126 6 5	Ditto ditto.
Doyal Chand Pyne and others ...	54,590 3 0	174 8 0	52,107 10 5	2,308 0 7	.....	2,308 0 7	Ditto ditto.
Dawood Khan Esabhai ...	1,797 8 9	31 11 4	1,238 4 7	527 8 10	190 5 0	337 3 10 (Dr. balance).	Ditto ditto.
Debnarain Bysack and another ...	5,427 14 1	3,167 3 1	1,447 4 7	813 6 5	1,077 6 10	264 0 5	Outstanding: in course of recovery.
DeCruz, W. J. ...	560 0 0	.. ..	.....	560 0 0	.....	560 0 0	Ditto ditto.
Ewing, Aird and Anderson ...	3,11,323 1 8	59,611 6 10	2,42,032 15 9	9,678 11 1	9,516 3 7	162 7 6	Nothing further recoverable.
Ellias, M. B. ...	7,233 13 6	3,428 10 7	1,263 15 10	2,541 3 1	2,218 0 3	323 2 10	Ditto ditto.
Espino, Manuel Del ...	3,800 1 3	1,005 7 2	1,265 7 9	1,529 2 4	950 15 7	578 2 9	Ditto ditto.
Eagleton, F. A. ...	3,653 3 6	72 11 2	2,841 4 4	739 4 0	446 0 1	293 3 11	Ditto ditto.
Emmett and Chambers ...	23,491 8 3	7,305 15 2	12,954 13 11	3,230 11 2	581 13 8	2,648 13 6	Ditto ditto.
Esmile Hadjee Abdool Kurreem & another	2,757 13 3	279 10 7	1,012 4 7	1,465 14 1	1,069 12 0	396 2 1	Ditto ditto.
Edmands, T. S. (Edmands Brothers) ...	21,720 9 3	19,005 7 0	2,135 8 8	579 9 7	231 14 0	347 11 7	Ditto ditto.
Fergusson and Co. ...	1,96,005 7 4	1,48,635 4 9	33,097 7 10	14,272 10 9	11,846 5 4	2,426 5 5	Ditto ditto.
Fergusson Brothers and Co. ...	1,47,924 5 4	68,637 12 4	75,113 15 2	4,172 9 10	3,761 0 8	411 9 2	Ditto ditto.
Foster, Rogers and Co. ...	6,376 9 10	857 3 7	2,294 7 11	3,224 14 4	2,542 11 8	682 2 8	Ditto ditto.
Fabian, E. D. ...	776 10 0	263 3 3	.....	513 6 9	.....	513 6 9	Ditto ditto.
Ferris, G. R ...	2,650 0 0	67 7 6	813 2 3	1,769 6 3	1,292 1 6	477 4 9	Ditto ditto.
Fanshaw, R. F. ...	876 0 10	176 8 6	96 15 1	602 9 3	425 4 7	177 4 8	Ditto ditto.
Fornaro, C. (Fornaro and Huni) ...	27,288 4 3	17,381 1 4	9,001 15 7	905 3 4	453 12 4	451 7 0	Ditto ditto.
Ferrier, W. A. ...	4,900 14 0	3,422 10 10	1,056 4 8	421 14 6	208 13 4	213 1 2	Ditto ditto.

Forbes, H. T. ...	3,000 0 0	497 8 0	1,248 15 7	1,253 8 5	21 8 0	1,232 0 8	Ditto	ditto.
Freck, D. ...	504 10 6	......	......	504 10 6	......	504 10 6	Ditto	ditto.
Gilmour and Co. ...	47,267 5 4	23,186 11 6	19,717 10 7	4,362 15 1	......	4,362 15 1	Ditto	ditto.
Griffith, Curtis and Co. ...	49,784 9 8	23,262 15 3	19,201 1 0	7,320 9 5	6,991 13 5	328 12 0	Ditto	ditto.
Gordon, Stewart and Co. ...	78,183 10 4	39,924 6 8	35,568 12 4	2,690 7 4	2,632 0 10	58 6 6	Ditto	ditto.
Gubboy, A. J. ...	9,055 7 0	6,088 9 2	2,075 4 0	891 9 10	565 5 11	326 3 11	Ditto	ditto.
Gocool Doss Soonderjee ...	18,266 14 1	11,879 7 1	5,760 12 11	626 10 1	584 4 8	42 5 5	Ditto	ditto.
Golaub Chand Hemchand ...	1,586 2 0	......	200 9 0	1,385 9 0	......	1,385 9 0	Schedule not filed as yet.	
Gordon, G. J. ...	570 0 0	......	48 5 0	521 11 0	493 13 11	27 13 1	Nothing further recoverable.	
Goberdhone Mullick ...	2,880 14 9	1,371 8 0	963 12 4	545 10 5	473 14 8	71 11 9	Ditto	ditto.
Golam Hossain Verjee ...	1,26,756 14 4	40,928 6 8	85,314 2 4	514 5 4	318 1 0	196 4 4	Ditto	ditto.
Grant and Sons, G. ...	5,904 8 5	3,347 1 11	2,062 13 10	494 8 8	422 15 1	71 9 7	Ditto	ditto.
Ghose and Co., R. G. ...	29,911 1 2	21,218 2 4	7,954 8 8	788 11 2	536 2 0	202 9 2	Ditto	ditto.
Gregory, M. ..	17,186 2 5	12,174 13 6	4,154 14 4	856 6 7	717 5 5	139 1 2	Ditto	ditto.
Ghaseeram ...	38,850 5 10	10,535 5 6	25,967 15 3	1,847 1 1	1,231 11 2	615 5 11	Ditto	ditto.
Gasper, N. M. ...	7,010 0 9	4,872 0 8	657 12 0	1,480 4 1	1,188 9 1	291 11 0	Ditto	ditto.
Gilmour, J. A. G. ...	512 8 0	......	......	512 8 0	......	512 8 0	Ditto	ditto.
Gubboy, E. S. ...	58,783 3 0	16,747 9 8	36,070 3 1	965 6 8	862 4 9	103 1 6	Ditto	ditto.
Greedhurryloll Kannylall ...	25,979 10 1	7,438 14 5	3,276 10 7	15,264 1 1	14,066 13 6	1,197 3 7	Ditto	ditto.
Gopaul Chunder Bose ..	3,891 0 0	1,964 2 6	876 10 0	1,050 3 6	838 7 4	211 12 2	Ditto	ditto.
Gobin Chand Setab Chand (Nunsee Indrochand).	1,07,806 2 7	58,248 7 5	41,059 7 3	8,498 3 11	8,350 1 3	148 2 8	Ditto	ditto.
Gray, W., and another (Robert and Charriol).	3,14,768 4 0	1,91,304 10 6	42,148 3 10	81,315 5 8	72,860 4 5	8,455 1 3	Outstanding: in course of recovery.	
Grish Chunder Marrick and others ...	13,882 0 5	5,217 2 10	5,430 5 2	8,184 8 5	2,378 5 11	806 2 6	Ditto	ditto.
Gopaul Chunder Rage ...	2,834 15 3	1,516 0 3	770 3 2	548 11 10	505 2 9	43 9 1	Nothing further recoverable.	
Gopaul Chunder Shaw ...	25,445 6 9	14,914 4 3	9,306 4 0	1,224 14 6	308 4 3	916 10 3	Ditto	ditto.
Greedharee Lall Sadkhan and Cally Churn Sadkhan.	2,572 6 3	192 0 0	258 12 7	2,121 9 8	17 12 3	2,103 13 5	Outstanding; in course of recovery.	
Grish Chunder Mukerjee and Koylash Chunder Chatterjee.	2,346 6 6	......	845 8 2	2,000 14 4	......	2,000 14 4	Ditto	ditto.
Hurry, W. C. ...	2,763 9 2	......	1,937 14 8	825 10 6	......	825 10 6	Nothing further recoverable.	
Hoffman and Co. ...	25,170 12 5	6,933 13 3	17,650 8 0	586 7 2	356 3 4	230 3 10	Ditto	ditto.
Hughesdon Brothers ...	2,44,226 5 7	39,290 4 8	2,04,248 13 9	687 3 2	542 5 9	145 13 5	Ditto	ditto.
Hudson, Nathaniel ...	2,225 11 3	655 5 6	461 2 1	1,109 3 8	936 15 2	172 4 6	Ditto	ditto.
Hoffe, William ...	1,346 8 6	2 0 0	672 1 1	672 7 5	613 3 1	59 4 4	Ditto	ditto.
Huffnagle and Co., Charles ...	1,820 4 7	70 11 11	842 4 1	907 4 7	825 8 6	81 12 1	Ditto	ditto.
Heeralall Hunnomontoram ...	752 14 3	......	61 0 0	691 14 3	......	691 14 3	Ditto	ditto.
Holloway, William ..	1,055 11 11	76 8 8	324 8 7	654 10 8	614 10 6	40 0 2	Ditto	ditto.
Honigberger, William ..	1,001 5 6	......	344 0 0	657 5 6	......	657 5 6	Schedule not filed as yet.	
Hanlon, E. ...	2,069 9 0	100 13 4	1,122 7 9	846 3 11	777 2 4	69 1 7	Nothing further recoverable.	
Howard Brothers ...	10,421 9 10	6,168 12 7	3,394 13 6	857 15 9	630 5 0	227 10 9	Ditto	ditto.
Hill, James (Barham, Hill and Co.) ...	32,114 9 9	17,337 9 6	10,861 5 8	3,915 10 7	3,526 2 10	389 7 9	Ditto	ditto.
Hurry Narain Khettry ...	10,178 5 9	4,209 9 3	3,808 13 1	2,159 15 5	2,095 4 6	64 10 11	Ditto	ditto.
Huckting and Co., B. H. ...	4,872 5 3	1,995 5 3	1,846 12 9	1,030 3 3	963 7 7	66 11 8	Ditto	ditto.

Estates.	Whole amount of receipts.	Whole Disbursements.		Balance.	Portion of balance applicable to dividends now payable.	Net balance.	Probable outturn of the dependencies.
		Dividends paid.	Other payments.				
	Rs. A. P.	Rs. A. P.	Rs. A. P	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Hutchison, J. H. (L. W. Toulmin & Co.)	4,043 11 4	2,034 11 10	507 9 0	1,501 6 6	1,444 11 9	56 10 9	Nothing further recoverable.
Hurro Nauth Mozoomdar and others ...	7,700 0 0	3,015 8 2	2,298 14 11	2,385 8 11	2,378 0 5	7 8 6	Ditto ditto.
Heeralall (Munnoolall Heeralall) ...	19,704 0 3	8,519 10 5	7,117 2 10	4,067 3 0	4,061 10 7	5 8 5	Ditto ditto.
Hubbard, C. E. ...	4,154 2 8	1,855 0 3	690 0 4	1,609 2 1	1,601 2 3	7 15 10	Ditto ditto.
Heralall Dodooriah ...	2,965 14 3	1,498 4 4	357 4 10	1,110 5 1	395 1 10	715 3 3	Ditto ditto.
Hay, William (Stuart & Co.) ...	1,999 10 3	.....	1,002 3 9	997 6 6	.....	997 6 6	Ditto ditto.
Heeranundo (Buddermull Heeranund) ...	1,212 15 3	447 15 1	88 2 1	676 14 1	602 3 11	74 10 2	Ditto ditto.
Hadjee Heedatoolah and others ...	1,17,397 3 0	87,094 0 0	16,684 2 10	13,619 0 2	3,875 9 8	9,743 6 6	Outstanding: in course of recovery.
Hurruck Chand and Johoory Mull (Kunnyalall Hurruck Chand).	12,596 6 0	5,996 13 7	624 8 4	5,975 0 1	3,266 7 8	2,708 8 5	Ditto ditto.
Hunutram Balakee Dass ...	2,051 13 0	.....	183 14 5	1,867 14 7	.....	1,867 14 7	Ditto ditto.
Hadjee Noormahamed Jakariah ..	3,941 1 3	.....	962 15 9	2,978 1 6	.....	2,978 1 6	Ditto ditto.
Issur Chunder Mill ...	8,546 1 6	490 3 11	6,149 15 6	1,905 14 1	1,880 12 0	25 2 1	Nothing further recoverable.
Issen Chunder Sein ...	12,002 4 9	5,835 13 1	5,586 14 6	579 9 2	568 7 8	11 1 6	Ditto ditto.
Issur Chunder Sein and another ...	631 14 9	.....	59 12 8	572 2 1	530 14 7	41 3 6	Ditto ditto.
Jansen & Co., J. ...	20,002 10 9	139 11 5	15,872 5 0	3,990 10 4	3,766 5 1	224 5 3	Ditto ditto.
Juggeshur Laha ...	34,388 4 1	16,701 4 2	15,519 2 4	2,167 13 7	1,851 6 1	316 7 6	Ditto ditto.
Jadub Chunder Seal ...	2,094 6 7	374 1 10	907 2 9	813 2 0	580 12 8	232 5 4	Ditto ditto.
Jordon, J. S. ...	5,376 8 0	3,582 9 6	984 15 5	808 15 1	545 0 7	263 14 6	Ditto ditto.
Juggenprosaud ...	960 8 9	.....	223 9 0	736 15 9	.....	736 15 9	Ditto ditto.
Jacob, Charles ...	933 8 0	.....	415 13 4	517 10 8	454 6 7	63 4 1	Ditto ditto.
Judah, J. E. ...	2,186 15 0	... .	1,450 4 7	736 10 5	643 2 11	93 7 6	Ditto ditto.
Johurlall Mokeem ...	1,656 0 0	648 15 0	262 4 7	744 12 5	373 13 9	370 14 8	Ditto ditto.
Joakim, M. C. ...	7,754 15 3	4,223 8 11	2,422 12 5	1,108 9 11	838 9 7	270 0 4	Ditto ditto.
Jogendro Nauth Cowar ...	5,943 0 0	1,391 15 3	3,571 12 3	979 4 6	806 0 9	173 3 9	Ditto ditto.
Joitroop Chooney Lall ...	8,229 11 4	4,349 11 2	1,951 7 6	1,928 8 8	1,861 3 1	67 5 7	Ditto ditto.
Joogole Kissore Sewlall Futteah Chund ...	9,544 8 6	4,144 8 6	2,262 11 9	3,137 0 11	2,856 14 5	280 2 6	Ditto ditto.
Kemp, H. C. (T. Hyde Gardiner and Co.)	33,765 12 9	27,374 0 2	5,817 5 1	574 7 6	135 0 4	439 7 2	Ditto ditto.
Khan Mahomed Dhurrumsee ...	55,247 9 1	33,008 1 8	11,149 7 7	11,089 15 10	1,312 7 6	9,777 8 4	Ditto ditto.
Kissoory Mohen Chunder ...	3,300 0 0	2,025 2 4	269 4 2	1,005 9 6	590 11 9	414 13 9	Ditto ditto.
Kissoory Mohen Ruckhitt ...	9,405 15 3	5,247 4 1	3,599 8 3	559 2 11	481 9 2	77 9 9	Ditto ditto.
Kally Doss Doss and others ...	73,719 13 5	20,461 12 8	46,590 9 6	6,667 7 3	3,967 4 0	2,700 3 3	Ditto ditto.
Kullianjee Soonderjee (Soonderjee, Walljee and Co.)	12,444 6 0	2,351 3 3	6,936 8 0	3,156 10 9	3,093 13 10	62 12 11	Ditto ditto.

Khettermauth Chatterjea	...	1,971	8	9	.....			801	0	5	1,170	8	4	.....		1,170	8	4	Ditto	ditto.
Kelly, H.	...	6,800	9	8	3,840	8	1	2,136	11	5	823	5	9	744	15	2	78	6	7	Ditto	ditto.
Kemp, H. C.	...	2,469	15	10	168	12	6	436	2	5	1,865	0	11	1,600	0	0	265	0	11	Ditto	ditto.
Kissen Chand Goleecha (Okhoyram Kissen Chand).		2,43,257	9	11	1,29,999	2	6	94,128	2	4	19,135	5	1	4,050	2	1	15,085	3	0	Outstanding: in course of recovery.	
Kally Charn Roy	...	510	0	0	.....			4	0	0	506	0	0	.....			506	0	0	Nothing further recoverable.	
Khetter Mohen Dass	...	1,133	8	5	.....			456	2	0	677	6	5	.....			677	6	5	Ditto	ditto.
Kally Prosono Vuttacharjee	...	2,327	11	0	.....			796	7	10	1,531	3	2	.....			1,531	3	2	Ditto	ditto.
Kissen Chand and Ameechand	...	1,371	2	3	.....			110	1	0	1,261	1	3	.....			1,261	1	3	Outstanding: in course of recovery.	
Kasim Ariff Bham	...	796	9	3	.....			257	8	0	539	1	3	.....			539	1	3	Ditto	ditto.
Kyser Shahabzadah Mahomed	...	3,248	1	0	2,256	0	0	295	10	0	696	7	0	667	14	4	28	8	8	Ditto	ditto.
Kissen Doyal Tunsook Roy	...	1,406	15	6	.....			298	6	0	1,108	9	6	.....			1,108	9	6	Ditto	ditto.
Lyall, Mathewson and Co.	...	8,68,485	13	8	2,81,882	4	9	84,883	12	0	1,719	12	11	1,285	11	0	434	1	11	Nothing further recoverable.	
Larpent, Saunders and Co.	...	80,893	0	4	42,900	8	0	22,836	4	7	15,156	3	9	12,631	12	0	2,524	7	9	Ditto	ditto.
Larmour, F. D. A.	...	1,170	8	0	.....			.....			1,170	8	0	.....			1,170	8	0	Ditto	ditto.
Langlois and Co.	...	33,718	2	8	1,620	6	4	23,592	8	7	8,505	3	9	8,170	3	9	335	0	0	Ditto	ditto.
Lake, Hamill and Co.	...	6,527	12	4	595	0	8	2,343	0	4	3,589	11	4	3,244	15	2	344	12	2	Ditto	ditto.
LeTourneaux, Labadie and Co.	...	7,483	10	3	1,098	13	8	5,463	14	7	920	14	0	538	7	3	382	6	9	Ditto	ditto.
Latapie, E. D. (2nd)	...	3,982	6	2	12	0	2	3,079	2	10	891	3	2	795	10	5	95	8	9	Ditto	ditto.
Landeman, J. V.	...	1,008	10	5	234	3	6	243	15	10	530	7	1	480	12	4	49	10	9	Ditto	ditto.
Ledlie, A. H. (2nd)	...	1,654	8	7	180	6	6	658	12	11	815	5	2	52	8	2	762	13	0	Ditto	ditto.
Lindsay, D. B.	...	1,430	3	0	..			557	4	0	872	15	0	.....			872	15	0	Ditto	ditto.
Lutchmenarain Khettry	...	1,726	9	9	429	2	0	617	3	6	680	4	3	411	14	8	268	5	7	Ditto	ditto.
Langlois, J. P.	...	1,448	12	0	.....			532	0	0	916	12	0	.....			916	12	0	Ditto	ditto.
Lokenauth Shaw	...	8,323	8	6	5,069	1	8	2,424	9	5	829	13	5	759	9	4	70	4	1	Ditto	ditto.
Latapie, E. D. and Co.	...	2,444	10	6	286	6	6	487	6	0	1,670	14	0	1,557	12	4	113	1	8	Ditto	ditto
Leusk, A. S. (2nd)	...	885	8	11	143	0	0	69	0	4	673	8	7	200	0	0	473	8	7	Ditto	ditto.
Linjeebhoy Dhunjeebhoy	...	4,781	8	5	2,644	8	6	975	5	4	1,161	10	7	1,144	6	3	17	4	4	Ditto	ditto.
Lyall, R. A., and another (Lyall, Rennie and Co.)		3,60,219	2	3	3,06,025	11	3	50,755	7	1	3,437	15	11	2,761	12	1	676	3	10	Ditto	ditto.
Leitch, H. K. (Kerr, Leitch & Co.)	...	1,853	3	0	588	2	9	520	14	6	744	1	9	51	13	3	692	4	6	Ditto	ditto.
Larmour, C. F. (separate estate)	...	2,822	12	2	.....			25	6	6	2,797	5	8	.....			2,797	5	8	Ditto	ditto.
Leckie, Thomas	...	1,010	1	6	..	..		171	8	0	838	9	6	.....			838	9	6	Ditto	ditto.
Larmour, C. F., and another (C. Lazarus and Co.)		6,744	9	5	...	.		5,735	4	3	1,009	5	2	.....			1,009	5	2	Ditto	ditto.
Lehzen, E F. W. (Marquardt, Lehzen & Co.)		16,172	15	7	12,483	10	5	1,968	14	0	1,720	7	2	312	10	3	1,407	12	11	Ditto	ditto.
Mackintosh and Co.	...	2,28,494	11	9	1,24,788	3	2	77,432	6	3	26,274	2	4	24,413	1	2	1,861	1	2	Ditto	ditto.
Macleod, Fagan and Co.	...	17,631	7	7	6,841	8	1	10,248	13	1	541	2	5	8	6	7	532	11	10	Ditto	ditto.
Macgregor, Hunter and Co.	...	10,719	11	10	.....			9,875	11	3	844	0	7	.....			844	0	7	Ditto	ditto.
Mackey and Co., D. C.	...	1,17,362	7	8	58,372	14	3	41,916	2	8	17,073	6	9	17,064	9	3	8	13	6	Ditto	ditto.
Minto & Co., William	...	9,560	5	4	3,938	0	5	2,759	2	7	2,863	2	4	2,863	2	4	.....			Ditto	ditto.
Maclean, L. A.	...	885	4	9	18	8	8	342	2	8	524	9	5	430	15	10	93	9	7	Ditto	ditto.
Melville, William	...	1,868	8	8	.....			359	4	6	1,509	4	2	1,339	13	7	169	6	7	Ditto	ditto.
Martin, Pillans and Co.	...	96,154	3	7	19,123	12	4	71,924	2	4	5,106	4	11	5,078	15	2	27	5	9	Ditto	ditto.
Morris, James (Senior).	...	662	6	9	.....			146	0	0	516	6	9	...	..		516	6	9	Ditto	ditto.
Monteith, John	...	821	0	3	20	12	0	189	4	0	611	0	3	.....			611	0	3	Ditto	ditto.

Estates.	Whole amount of receipts.	Whole Disbursements.		Balance.	Portion of balance applicable to dividends now payable.	Net balance.	Probable outturn of the dependencies.
		Dividends paid.	Other payments.				
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Murdock, Mackenzie and Co. ...	5,598 2 8	17 10 1	5,037 6 4	543 2 3	458 0 8	85 1 7	Nothing further recoverable.
Meyers, F. ...	1,263 13 6	.....	139 0 0	1,124 13 6	.....	1,124 13 6	Ditto ditto.
Macdonald, Daniel ...	1,691 14 2	247 8 0	589 13 2	854 9 0	609 11 3	244 13 9	Ditto ditto.
Martin, William ...	2,106 11 8	75 0 0	552 6 2	1,479 5 6	1,425 0 0	54 5 6	Ditto ditto.
Michael, J. C. (2nd) ...	7,760 12 8	5,858 3 5	1,869 3 4	533 5 11	.....	533 5 11	Ditto ditto.
Meddlecoat, J. H. P. ...	1,011 14 6	111 7 11	98 14 5	801 8 2	579 6 5	222 1 9	Ditto ditto.
Meyers, A. J. ...	8,876 3 6	4,248 9 10	2,804 7 10	1,823 1 10	1,580 10 0	242 7 10	Ditto ditto.
Meer Dawood Alley ...	3,044 0 2	1,459 3 0	229 14 5	1,354 14 9	1,191 12 2	163 2 7	Ditto ditto.
Munnoololl ...	1,410 4 10	.....	647 10 7	762 10 3	.....	762 10 3	Schedule not filed as yet.
Muddonjee Dhurrumsee ...	880 0 2	.....	68 9 6	811 6 8	472 10 8	338 12 0	Nothing further recoverable.
Morgan, C. ...	1,978 6 3	685 1 2	200 1 11	1,093 3 2	813 3 5	279 15 9	Ditto ditto.
Michael, J. C. (3rd) ...	10,086 11 8	6,872 12 2	1,573 8 10	1,640 6 8	1,633 5 5	7 1 3	Ditto ditto.
Murray, James (Black and Murray) ...	14,154 7 2	8,895 4 11	2,544 14 4	2,714 3 11	2,454 4 2	259 15 9	Ditto ditto.
Mugneeram ...	4,227 6 6	1,405 6 1	2,040 11 0	781 5 5	695 14 0	85 7 5	Ditto ditto.
Muddoosoodun Dutt ...	8,150 7 5	5,995 15 11	1,224 7 5	930 0 1	927 9 3	2 6 10	Ditto ditto.
Muddoosoodun Pyne ...	1,762 10 1	.....	203 11 0	1,558 15 1	.....	1,558 15 1	Schedule not filed as yet.
Marshall Brothers ...	12,811 4 11	6,740 0 10	4,650 2 0	1,421 2 1	1,304 0 3	117 1 10	Nothing further recoverable.
Mangos, C. D. ...	13,668 1 10	4,611 8 9	8,055 1 1	1,001 8 0	889 14 11	111 9 1	Ditto ditto.
Martin, J. C. ...	2,327 4 4	834 12 5	159 13 4	1,332 10 7	1,244 11 1	87 15 6	Ditto ditto.
Mahamed Baker Aga ...	2,098 2 9	1,032 11 3	432 2 10	633 4 8	534 8 1	98 12 7	Ditto ditto.
Megraj Boorah (Megraj Chogmull) ...	11,441 10 7	7,124 8 10	2,336 0 6	1,981 1 9	1,894 5 7	86 12 2	Ditto ditto.
McArthur, James ...	1,119 15 6	.....	62 14 8	1,057 0 10	965 14 3	91 2 7	Ditto ditto.
McKay, W. R. ...	864 6 6	122 7 4	23 14 6	718 0 8	146 1 6	571 15 2	Ditto ditto.
Mohabharut Roy ...	10,914 8 0	.....	3,870 10 0	7,043 14 0	.....	7,043 14 0	Schedule not filed as yet.
Moorally Dhur Bunshee Lall ...	6,918 7 5	323 8 0	925 0 5	5,669 15 0	182 1 0	5,487 14 0	Outstanding: in course of recovery.
Muddon Mohun Dey and another ...	40,990 4 2	33,834 13 5	5,987 12 8	1,467 10 1	1,384 0 10	83 9 3	Nothing further recoverable.
Madhub Lall Shaw Chowdoory ...	21,752 0 6	.....	255 1 5	21,496 15 1	.....	21,496 15 1	Outstanding: in course of recovery.
Nursing Chunder Bose ...	1,030 0 0	.....	202 11 0	827 5 0	.....	827 5 0	Nothing further recoverable.
Nyss, John ...	750 2 11	.....	171 4 0	578 14 11	.....	578 14 11	Ditto ditto.
Nemy Churn Bysack ...	1,210 13 0	.....	428 5 4	782 7 8	696 8 1	85 15 7	Ditto ditto.
Norman Brothers ...	19,569 14 7	9,267 15 3	5,906 1 4	4,395 14 0	4,395 14 0	.....	Ditto ditto.
Nobin Kisto Ghose ...	2,450 0 0	617 3 1	536 10 3	1,296 2 8	1,063 3 1	232 15 7	Ditto ditto.
Nundolall Shaw and Anuntolall Shaw ...	1,950 0 0	.....	249 6 6	1,700 9 6	.....	1,700 9 6	Ditto ditto.
Narain Sing and Co. ...	32,007 6 11	18,805 8 7	9,718 1 2	3,483 13 2	3,424 11 7	59 1 7	Ditto ditto.
Nicol, J. Dyce ...	23,409 1 11	9,410 3 10	5,556 0 4	8,442 13 9	1,666 11 8	6,776 2 1	Ditto ditto.

Nilcomul Mitter ...	500	0	0	.....			.....			500	0	0	.....			500	0	0	Ditto	ditto.
Nicholls, W. and another (W. Nicholls & Co.)	18,548	15	4	13,266	2	9	4,261	1	2	1,021	11	5	977	14	8	43	12	9	Ditto	ditto.
Nabin Chunder Dey ...	1,375	1	7	542	8	0	248	7	8	589	2	4	585	7	9	3	10	7	Ditto	ditto.
Narain Sing Dhunput Sing ...	2,443	7	5	716	14	10	1,225	13	4	500	11	8	403	4	8	97	6	7	Ditto	ditto
Nabin Chunder Dey and another ...	3,381	9	8	48	0	0	2,755	0	0	578	9	8	573	4	9	5	4	6	Ditto	ditto.
Nilmadhub Shaw and Brothers ...	613	13	7	.....			4	5	0	609	8	7	.....			609	8	7	Ditto	ditto.
Owen, Allhuson and Co. ...	5,69,984	6	1	4,01,103	3	11	1,67,389	8	10	1,491	9	4	542	6	10	949	2	6	Ditto	ditto.
Oliva, L. B. ...	23,729	2	7	17,569	15	0	5,445	11	5	713	8	2	.....			713	8	2	Ditto	ditto.
Ogle and Co., John ...	2,08,140	10	8	1,56,004	1	7	31,309	4	11	15,827	4	2	15,462	10	5	364	9	9	Ditto	ditto.
Obhoy Churn Dutt ...	1,127	0	6	487	9	9	137	0	0	502	6	9	.....			502	6	9	Ditto	ditto.
Obhoyram Budre Chand ...	1,910	9	0	.....			372	14	6	1,537	10	6	.....			1,537	10	6	Ditto	ditto.
Ord, W. K. ...	679	8	4	57	7	10	53	4	9	568	11	9	503	11	10	64	15	11	Ditto	ditto.
Ord, William (Murdock and Co.) ...	3,515	2	3	.....			2,944	14	7	570	3	8	511	1	0	59	2	8	Ditto	ditto.
O'Neill, Thomas ...	1,510	13	8	.....			671	3	1	839	10	7	465	9	6	374	1	1	Ditto	ditto.
Omroo Sing ...	2,747	15	11	1,845	11	8	391	9	2	510	11	1	352	14	1	157	13	0	Ditto	ditto.
Palmer and Co. ...	5,69,984	6	1	4,01,103	3	11	1,67,389	8	10	1,491	9	4	542	6	10	949	2	6	Ditto	ditto.
Palmer, John ...	7,707	7	11	6,152	6	4	1,001	11	3	553	6	4	542	0	9	11	5	7	Ditto	ditto.
Palmer, Thomas ...	1,473	0	0	.....			887	4	9	585	11	3	.....			585	11	3	Ditto	ditto.
Pew, P. L. ...	52,965	13	1	34,068	0	5	12,875	1	11	6,022	10	9	5,847	11	2	174	15	7	Ditto	ditto.
Parry, John ...	4,996	8	11	1,738	9	10	1,616	0	2	1,641	14	11	1,555	13	5	86	1	6	Ditto	ditto.
Price, Henry ...	15,380	1	3	.....			14,642	1	8	737	15	7	660	5	9	77	9	10	Ditto	ditto.
Posner, J. ...	7,075	8	6	2,904	13	4	3,003	4	3	1,167	6	11	873	14	5	293	8	6	Ditto	ditto.
Price, C. E. ...	750	0	0	21	10	3	57	8	11	670	12	10	226	11	7	444	1	3	Ditto	ditto.
Phillips, John ...	4,156	0	0	10	11	8	248	10	5	3,896	9	11	1,501	10	4	2,394	15	7	Ditto	ditto.
Phillipe, DeRhee G. W. ...	1,260	0	0	538	14	4	98	9	5	622	8	3	562	4	3	60	4	0	Ditto	ditto.
Prosono Coomar Bannerjea ...	1,241	0	0	.....			325	2	0	915	14	0	.....			915	14	0	Ditto	ditto.
Poorsun Chand Goleecha (Dhurrum Chand Pooruchand).	96,847	4	1	37,571	1	6	33,581	12	9	25,694	5	10	24,743	6	5	950	15	5	Ditto	ditto.
Punchanun Doss Mungle Chand (Hatee Sing Soorsj Mull Mungle Chand).	6,183	14	3	.....			2,744	3	0	3,439	11	3	.. ...			3 439	11	3	Schedule not filed as yet.	
Protaub Chunder Chatterjea ...	748	11	7	.....			7	1	0	741	10	7	.....			741	10	7	Nothing further recoverable.	
Purmessor Khan and others, [Purmessor Khan and Debendro Nauth Khan (Purmessor Khan and Co.)]	3,129	9	9	735	4	1	714	1	3	1,680	4	5	1,030	3	4	650	1	1	Outstanding: in course of recovery.	
Prethum Dass and others, (Lutchmee Chand Prethum Dass).	7,423	11	6	.....			338	12	4	7,084	15	2	.....			7,084	15	2	Ditto	ditto.
Pallache, F. C. ...	707	13	3	.....			6	7	0	701	6	3	.....			701	6	3	Ditto	ditto.
Quillet, DeGay and Co. ...	6,539	10	4	3,148	1	11	2,380	4	6	1,011	3	11	1,011	3	11	.....			Nothing further recoverable.	
Runtz, Rees and Co. ...	19,490	12	2	3,907	1	1	10,031	14	8	5,551	12	5	5,551	12	5	.....			Ditto	ditto.
Russell, C. D. ...	8,785	14	2	7,162	15	2	1,059	0	9	563	14	3	20	15	2	542	15	1	Ditto	ditto.
Roghoo Nauth Bose ...	1,778	13	4	702	12	10	444	4	0	631	12	6	591	11	0	40	1	6	Ditto	ditto.
Rogers, Alexander ...	10,892	13	6	5,963	0	4	4,136	10	9	793	2	5	.....			793	2	5	Ditto	ditto.
Rajkissore Dutt ...	4,683	12	2	... ..			665	13	6	4,017	14	8	.....			4,017	14	8	Ditto	ditto.
Rousac, A. G. ...	12,304	10	3	8,940	2	5	1,063	11	3	2,300	12	7	2,300	12	7	.....			Ditto	ditto.

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		Dividends paid.	Other payments.				
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Ramdhone Mitter ...	838 5 4	52 4 5	217 8 2	568 8 9	453 1 6	115 7 3	Nothing further recoverable.
Rustomjee, Cowasjee and Co ...	11,032 15 0	3,373 5 8	6,015 1 6	1,644 7 10	1,285 10 3	358 13 7	Ditto ditto.
Ramsabuck Misser and others ...	1,23,206 9 4	75,777 8 5	29,912 4 9	17,516 12 2	17,143 12 5	372 15 9	Ditto ditto.
Robinson, S. H. ...	1,129 10 9	.....	132 0 0	997 10 9	... ..	997 10 9	Ditto ditto.
Ram Narian Sreemaney ..	9,319 8 0	4,158 0 11	2,041 7 1	3,120 0 0	3,066 10 8	53 5 4	Ditto ditto.
Robinson, J. J. (Wallace and Co.) ...	3,052 8 8	270 0 0	2,027 4 6	755 4 2	321 14 9	433 5 5	Ditto ditto.
Ram Nath Janookeypersaud ...	5,296 4 9	.....	2,792 3 0	2,504 1 9	.. ...	2,504 1 9	Schedule not filed as yet.
Rughoo Nath Roy (Toongumram Gouri Dutt).	6,189 7 0	3,760 12 5	1,470 7 0	958 3 7	719 5 4	238 14 3	Nothing further recoverable.
Russicklall Paul ...	702 5 3	.....	23 11 6	678 9 9	.....	678 9 9	Ditto ditto.
Ritz, Alfred ...	1,139 0 0	.....	208 7 6	930 8 6	690 13 5	239 11 1	Ditto ditto.
Ram Gopaul Paul ...	8,141 12 6	4,314 7 11	2,408 6 8	1,418 13 11	1,220 9 5	198 4 6	Ditto ditto.
Ram Dass Paul ...	1,545 8 3	457 8 0	475 10 9	612 5 6	469 13 6	142 8 0	Ditto ditto.
Rakhal Chunder Bannerjea, junior ...	5,534 7 3	138 2 6	2,866 9 9	2,529 11 0	62 13 6	2,466 13 6	Ditto ditto.
Rushton, H. P., and others (Rushton Brothers).	81,120 2 3	47,489 3 8	26,799 11 0	6,831 3 7	5,460 13 3	1,370 6 4	Ditto ditto
Rustomjee Cowasjee ...	3,796 13 7	1,637 9 1	425 11 10	1,733 8 8	1,537 12 2	195 12 6	Ditto ditto.
Rushton, Edward ...	2,784 3 9	1,418 6 4	690.3 10	675 9 7	657 11 6	17 14 1	Ditto ditto.
Ramsarun Lall ...	57,280 1 1	29,172 2 3	21,011 11 2	7,096 3 8	6,939 2 11	157 0 9	Ditto ditto.
Ram Kissen Kotary ...	7,527 14 3	4,452 14 4	1,840 0 6	1,234 15 5	1,232 9 6	2 5 11	Ditto ditto.
Ramsamull Pannalall ...	1,933 2 9	.. ...	656 11 9	1,276 7 0	... ..	1,276 7 0	Ditto ditto.
Robertson, C. A. (1st) ...	1,500 0 0	477 2 10	81 12 9	941 0 5	726 4 9	214 11 8	Ditto ditto.
Ramdhone Mullick ...	46,922 13 6	455 4 3	45,446 12 2	1,020 13 1	.....	1,020 13 1	Ditto ditto.
Rutledge, W. ...	4,122 12 0	2,736 3 9	806 12 7	579 11 8	206 0 8	373 11 0	Ditto ditto.
Rajendro Coondoo and another ...	860 0 0	.....	182 1 0	677 15 0	... ..	677 15 0	Schedule not filed as yet.
Reinhold, H. (Reinhold & Co.) ...	13,753 7 9	9,298 6 9	2,663 9 1	1,791 7 11	1,651 4 1	140 3 10	Nothing further recoverable.
Reinhold, H. C., and another (Reinhold Brothers).	5,903 0 1	135 7 9	1,717 6 5	4,050 1 11	233 14 0	3,816 3 11	Ditto ditto.
Reinhold, H. C., separate account ...	790 0 0	.....	53 1 8	736 14 4	725 14 5	10 15 11	Ditto ditto.
Retz Reinhold and Feilman ...	13,333 5 0	10,502 0 10	895 2 3	1,936 1 11	216 13 6	1,719 4 5	Ditto ditto.
Rashbehary Roy and Jullodhur Roy ...	22,374 1 7	.....	7,089 0 4	15,285 1 3	.....	15,285 1 3	Outstanding: in course of recovery.
Radha Kissen Doss *alias* Lal Behary ...	2,842 5 3	.....	958 5 9	1,883 15 6	.. ...	1,883 15 6	Ditto ditto.
Ramkissen ...	5,12,169 4 5	.....	1,11,208 15 2	4,00,960 5 3	... ..	4,00,960 5 3	Ditto ditto.
Rambox Rattee (Chooneelall Janokey Dass)	5,329 3 8	.. ...	596 10 4	4,732 9 4	.....	4,732 9 4	Ditto ditto.
Saunders, May, Fordyce and Co. ...	4,03,262 11 3	3,21,713 7 1	68,906 4 4	12,642 15 10	11,992 9 4	650 6 6	Nothing further recoverable.
Stewart and Co, W. C. ...	5,793 6 0	1,967 12 3	770 3 11	3,055 5 10	1,724 14 7	1,330 7 3	Ditto ditto.

Sennes, W. D. M. ...	2,514 11 7	......	912 2 6	1,602 9 1	1,533 5 10	69 3 8	Ditto ditto.
Smith, W. S. ...	3,620 13 5	2,635 15 6	471 0 8	513 13 8	471 11 1	42 2 2	Ditto ditto.
Stocquelor, J. H. ...	7,138 0 0	210 6 5	5,537 0 7	1,390 9 0	1,122 12 7	267 12 5	Ditto ditto.
Schlatter, Michael ...	20,294 14 10	16,357 13 1	2,433 0 9	1,504 1 0	1,006 8 1	497 8 11	Ditto ditto.
Smoult, W. H. ...	1,976 10 3	97 13 5	328 9 3	1,550 3 7	1,190 7 6	359 12 1	Ditto ditto.
Sheppard, G. A. ...	5,598 2 10	4,179 1 11	662 0 7	757 0 4	652 6 0	104 10 4	Ditto ditto.
Sarkies and Co., P. J. ...	52,610 10 9	6,473 9 2	45,380 2 2	756 15 5	602 12 10	154 2 7	Ditto ditto.
Scott, C. C. J. ...	7,723 13 9	4,659 10 11	2,402 0 10	1,062 2 0	631 9 11	430 8 1	Ditto ditto.
Smith, Huffnagle and Co. ...	26,632 14 5	13,828 7 4	10,798 4 10	2,006 2 3	......	2,006 2 3	Ditto ditto.
Stubbs, W. V. G. ...	3,491 6 5	81 3 10	1,649 12 7	1,760 6 0	262 2 3	1,498 3 9	Ditto ditto.
Snook, J. V. ...	775 10 0	......	158 0 0	617 10 0	.....	617 10 0	Ditto ditto.
Sreegopaul Misser ...	1,951 0 0	55 14 4	678 6 8	1,216 11 0	1,093 0 11	128 10 1	Ditto ditto.
Solomon, Maladona ...	64,041 6 10	43,579 4 11	17,498 10 0	2,963 7 11	2,682 12 0	280 11 11	Ditto ditto.
Stewart, W. M. ...	24,989 4 9	12,513 15 1	6,325 15 7	6,149 6 1	5,610 9 8	538 12 5	Ditto ditto.
Sarkies, P. J. ...	10,227 7 7	6,168 3 7	3,097 5 4	961 14 8	789 10 3	172 4 5	Ditto ditto.
Sreenauth Mullick ...	17,782 7 7	13,851 5 6	3,389 12 10	541 5 8	431 12 6	109 8 9	Ditto ditto.
Sewnundun Paray ...	32,283 9 9	18,836 10 11	7,473 4 4	5,973 10 6	5,242 11 7	730 14 11	Ditto ditto.
Smith, A. M. ...	2,800 10 7	244 1 6	801 15 7	1,754 9 6	1,371 10 8	382 14 10	Ditto ditto.
Shib Chunder Seal ...	13,555 3 9	3,152 9 3	9,450 8 8	952 1 10	730 13 6	221 4 4	Ditto ditto.
Solomon and Co., D. H. ...	16,053 12 9	9,499 1 8	4,711 4 9	1,843 6 4	1,655 2 10	188 3 6	Ditto ditto.
Schiller, F., and others (Borradaile, Schiller and Co.)	1,52,677 1 8	83,155 7 3	31,168 12 4	38,352 14 1	31,115 12 9	7,237 1 4	Ditto ditto.
Straw, F. T. ...	36,270 15 11	19,162 13 4	15,685 4 5	1,472 14 2	961 15 1	510 15 1	Ditto ditto.
Samul Doss Soonder Doss ...	2,187 6 9	929 1 3	683 4 6	525 1 0	400 11 1	124 5 11	Ditto ditto.
Smith and Co., Thomas ...	66,940 0 10	8,918 11 0	56,288 9 2	1,732 12 8	1,078 12 0	654 0 8	Ditto ditto.
Shamachurn Bhur ...	1,003 2 0	......	187 0 7	816 1 5	......	816 1 5	Ditto ditto.
Schiller, F. ...	5,482 10 7	1,200 1 0	1,489 4 1	2,793 5 6	2,576 13 2	216 8 4	Ditto ditto.
Shamlall Khettry (Dewkey Nundon Lalljee Mull).	16,952 12 6	12,193 11 10	3,245 3 10	1,513 12 10	1,456 0 10	57 12 0	Ditto ditto.
Sherajoodeen Shaik ...	1,460 12 0	......	233 3 5	1,227 8 7	. ..	1,227 8 7	Schedule not filed as yet.
Seetaram Rohutgee ...	945 8 3	......	158 6 6	787 1 9	...	787 1 9	Nothing further recoverable.
Seetaram Tejpal (Khetsee Dass Golaub Chand).	4,619 6 6	88 12 0	1,274 4 7	3,256 5 11	2,987 6 0	268 15 11	Ditto ditto.
Smallwood, A. (Lloyd and Co.) ...	6,280 11 3	1,402 0 9	2,787 9 2	2,091 1 4	......	2,091 1 4	Ditto ditto.
Soorjeemull Mugneeram and Hunnomontoram (Soorjeemull Mugneeram).	3,728 8 6	805 0 0	1,486 0 0	1,437 8 6	945 0 4	492 8 2	Ditto ditto.
Soutendro Mohun Tagore ...	810 5 9	39 6 0	52 8 1	718 7 8	708 4 5	10 3 3	Ditto dittc.
Sander, C. W. P. ...	1,062 8 0	......	6 7 0	1,056 1 0	......	1,056 1 0	Outstanding: in course of recovery.
Stephen, A. J. ...	1,201 8 0	......	42 1 2	1,159 6 10	538 15 8	620 7 2	Ditto ditto.
Shebdass Moohoory (Ramdhone Moohoory and Shebdass Moohoory).	37,536 2 3	......	23,901 12 5	13,634 5 10	......	13,634 5 10	Ditto ditto.
Shama Churn Khaw .	2,191 8 0	......	1,417 2 9	774 5 3	......	774 5 3	Ditto ditto.
Tulloh and Co. (1st) ...	1,21,128 2 10	68,615 10 0	50,626 7 9	1,886 1 1	1,139 10 6	746 6 7	Nothing further recoverable.
Tulloh and Co. (2nd) .	19,223 10 2	8,961 4 4	9,684 15 7	577 6 3	411 1 3	166 5 0	Ditto ditto.
Thomas and Co. .	4,55,276 15 3	3,98,103 6 2	50,239 15 2	6,933 9 11	1,314 1 0	5,619 8 11	Ditto ditto.

Estates.	Whole amount of receipts.	Whole Disbursements.		Balance.	Portion of balance applicable to dividends now payable.	Net balance.	Probable outturn of the dependencies.
		Dividends paid.	Other payments.				
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Trower, Charles ...	2,177 9 0	240 0 0	72 9 0	1,865 9 0	811 7 5	1,054 1 7	Nothing further recoverable.
Twentyman and Co. ...	683 6 7	.....	152 2 1	531 4 6	.....	531 4 6	Ditto ditto.
Thomas, John ...	740 0 0	.....	.....	740 0 0	.....	740 0 0	Ditto ditto.
Tarachand Kuramull Dowlutehand ...	22,970 1 11	6,210 6 9	14,187 12 0	2,571 15 2	2,199 13 3	372 1 11	Ditto ditto.
Teitkins, A. H. ...	5,671 12 10	3,819 12 0	1,248 0 5	604 0 5	.....	604 0 5	Ditto ditto.
Turton, Sir T. E. M. ...	2,49,996 3 10	1,48,439 14 7	1,00,447 2 8	1,109 2 7	661 12 9	447 5 10	Ditto ditto.
Troylucknauth Roy and another ...	26,576 11 9	18,507 10 9	7,142 7 5	926 5 10	835 4 8	91 4 2	Ditto ditto.
Thorndike, A., and another (Atkinson, Tilton and Co.)	48,433 7 2	17,760 4 5	25,132 6 6	5,540 12 3	3,468 1 6	2,072 10 9	Ditto ditto.
Tunsook Roy Premsook Roy ...	27,590 9 11	9,766 11 1	10,889 8 2	6,934 6 8	5,910 3 2	1,024 3 6	Ditto ditto.
Turnbull, R. A. ...	18,050 0 9	2,771 8 3	14,084 4 5	1,244 9 1	107 3 8	1,137 5 5	Ditto ditto.
Tacooranee Bibee and Chineebas *alias* Sreeneebas (Bunseedhur Lutchmenarian).	4,136 5 0	.....	421 4 0	3,715 1 0	.....	3,715 1 0	Outstanding: in course of recovery.
Templeton, A. N. ...	650 0 0	.....	.....	650 0 0	.....	650 0 0	Ditto ditto.
Vandenberg, J. B. (2nd) ..	5,740 4 3	4,036 0 7	440 2 5	1,264 1 3	1,235 11 11	28 5 4	Nothing further recoverable.
Willis, F. F. ...	7,102 7 11	892 13 4	2,906 1 7	3,303 9 0	2,932 2 8	371 6 4	Ditto ditto.
Willis, Joseph ...	1,20,346 2 7	88,227 7 6	29,952 12 8	2,165 14 5	1,839 2 11	326 11 6	Ditto ditto.
Wood, Olliffe and Co. ...	3,276 6 10	.....	1,427 4 6	1,849 2 4	.....	1,849 2 4	Ditto ditto.
Waring, E. S. S. ...	3,086 8 8	1,780 7 11	529 5 2	756 11 7	650 13 11	105 13 8	Ditto ditto.
Williams, Stephen ...	20,504 1 5	17,451 12 3	2,207 14 7	844 6 7	476 11 4	367 11 3	Ditto ditto.
Watson and Co., Gibbon and Co. ...	1,06,519 3 0	87,390 15 9	15,992 0 3	3,136 3 0	2,703 9 8	432 9 4	Ditto ditto.
Wood, H. W. J. ...	2,539 13 0	712 3 7	885 5 3	942 4 2	785 11 9	156 8 5	Ditto ditto.
Webb, John ...	4,457 8 3	2,391 0 8	1,103 4 5	963 3 2	890 14 9	72 4 5	Ditto ditto.
Wood, David ...	1,414 3 0	56 7 3	753 11 11	603 15 10	548 11 6	55 4 4	Ditto ditto.
Wilcox, H. C. ...	710 0 0	62 3 9	55 1 0	592 11 3	535 3 8	57 7 7	Ditto ditto.
Wallis, C. B. ...	8,520 11 5	6,592 2 1	1,403 4 3	525 5 1	120 11 5	404 9 8	Ditto ditto.
Woodin, W. (G. F. Hodgkinson and Co.)	25,413 4 5	1,022 8 2	22,444 3 9	1,946 8 6	1,549 5 6	397 3 0	Ditto ditto.
Weemes Chunder Banerjea (G. DeLeman and Co.)	23,991 14 1	19,455 11 5	3,065 4 3	1,470 14 5	1,451 9 9	19 4 8	Ditto ditto.
Wyldie, J. J. ...	1,200 0 0	100 0 0	21 7 1	1,078 8 11	26 6 4	1,052 2 7	Ditto ditto.
Wiseham, William ..	967 3 6	.....	32 0 0	935 3 6	.....	935 3 6	Schedule not filed as yet.
Zunnine, A. ...	4,860 2 9	261 11 10	2,607 12 6	1,690 10 5	.....	1,690 10 5	Nothing further recoverable.

In addition to the above, there are 1,464 estates with balances under Rs. 500 each, aggregating Rs. 1,70,199-13-3, the particulars of which may be learnt at this Office. The Official Assignee has received for remuneration for the quarter ending 30th September 1889 Rs. 4,798-3-6.

A. B. Miller,
Official Assignee.

Calcutta,
The 1st October 1889.

Notification.

TO be peremptorily sold pursuant to a decree and order of the Calcutta High Court, Original Jurisdiction, made in suit No. 257 of 1888 (wherein Punno Bibee is plaintiff and Denonauth Ghose is defendant), and dated, respectively, the 2 3rd of August 1888 and the 12th of September 1889, by the Registrar of the said Court, in his sale-room in the Court-house on Saturday, the 29th of March next, at the hour of 12 o'clock at noon, an undivided one equal third part or share of the defendant in the following properties, viz.—

Lot. No. 1.—Nos 32 and 33, formerly Nos. 74 and 75, College Street in Calcutta, being an upper-roomed brick-built house and the land appertaining thereto, the area of which is about two cottahs, and which property is bounded on the north by Arpooly Lane; on the south by the dwelling-house of Kannoy Loll Seal and brothers; on the east by the tenanted house of Kally Churn Ghose; and on the west by College Street.

Lot. No 2.—No. 17-1, Jhamapooker in Calcutta, being an upper-roomed brick-built dwelling-house, and the land appertaining thereunto, on part whereof the same is erected, the area of which is about 8½ cottahs, and which property is bounded on the north by the dwelling-house of Madhub Chunder Ghose and his brothers; on the south by a Government drain; on the east partly by the dwelling-house of Khetter Mohun Bose and partly by a Government drain; and on the west partly by a Government drain and partly by the dwelling-house of late Issur Chunder Bonnerjee and partly by the house of Madhub Chunder Ghose and his brothers.

The abstract of title and conditions of sale may be seen at the Registrar's Office in the Court-house, or at the office of Baboo Gonesh Chunder Chunder, the plaintiff's Attorney, at No. 5, Hastings Street in Calcutta, and will be produced at the sale.

R. BELCHAMBERS, Registrar

Gonesh Chunder Chunder, Plaintiff's Attorney.

High Court, Calcutta, Original Side, the 11th February 1890.

(3543—1)

Notification.

TO be peremptorily sold by the Registrar of the Calcutta High Court, Original Civil Jurisdiction, in his sale-room on the middle floor of the Court-house on Saturday, the 22nd of February next, at the hour of 12 o'clock at noon, pursuant to a decree and orders of the said Court, made in suit No. 113 of 1886 (wherein Maltee Bibee, widow and administratrix of the late Bhogoban Dass, Augurwallah, is the plaintiff, and Russick Laul Chunder and others are the defendants), and dated, respectively, the 10th January 1887 and the 27th of July 1889, the undivided three annas and four gundas share of the defendants in the following property:—

Lot No. 1.—No. 50, Moirahatta Street, in Calcutta, being a brick-built house and premise in block No. 18, holding No. 187, North Division, and a piece of land thereunto belonging, and on part whereof the same is built, the area of which is by estimation 11 chittacks and 1 square foot, be the same, a little more or less, paying the annual jumma of 13 annas eight gundas and three cowries, and butted and bounded as follows:—On the north by the tenanted house of Aukhoy Churn Mullick; on the south by the tenanted house of the late Rajkristo Khan and others; on the east by the public road called Moirahatta Street; and on the west by the tenanted house of Sreemutty Rani Dassee

The conditions of sale and abstract of title may be seen at the Office of Messrs. Sowton and Son, Attorneys for the plaintiff, at No. 2, Church Lane, in Calcutta, on any day before the sale, and will be produced at the sale.

R. BELCHAMBERS, Registrar.

Sowton and Son, Plaintiff's Attorneys.

Calcutta, High Court, Original Jurisdiction, the 12th February 1890.

(3547—1)

In the Court of the Second Sub-Judge, 24-Pergunnahs.

EXECUTION CASE No. 190 OF 1889.

Jagat Chander Roy Chaudhury and others, decree-holders, *versus* Nilratan Mukerjee of Ula, debtor.

TO be peremptorily sold by the Nazir of the District Judge, 24-Pergunnahs, at 12 o'clock, on Monday, the 10th March 1890, the following mortgaged properties of the debtor above named for the realization of Rs. 6,562-9 due to the decree-holders:—

Lot No 1.—The one-fourth undivided share of the debtor Nilratan Mukerjee, in taraf Birnagur *alias* Ula-taluq Rupmanjari Dasy, forming towji No. 879 in the Collectorate of Nuddea, comprised in pergunnah Mamjoany, thana and sub-registration Ranaghat.

Lot No. 2.—In the said district and the said registration, and within the said pergunnah Mamjoany, the sixteen annas share in taluq Tripura Sundary Dasy, taraf Ula *alias* Birnagar, forming taluq No. 3087 in the Collectorate of Nuddea.

Lot No. 3.—The sixteen annas share of the debtor in 9 bighas of land, and the buildings, walls, gardens &c., on it, in Ula *alias* Birnagar, in pergunnah Mamjoany, thana and sub-registration Ranaghat, district Nuddea, boundaries west and north of road, east of lakhiraj land belonging to Dasarathi Rudra and others, south of the land purchased by debtors in taluq No. 3063

N.B.—These three lots form the property No. 2 of the decree.

Lot No 4.—(The property No. 3 of the decree)

The 17 gundas 3 kans 1 kag undivided share of the debtor in 27 mouzahs, taraf Bhabanipur, Siddhi and others, formerly comprising taluq No. 49 in the Collectorate of Nuddea, at present No. 5073 in the Collectorate of Jessore, thana and sub-registration being Bongong.

RADHA KRISHNA SEN, Sub-Judge.

(3556—1)

In the Court of the Subordinate Judge of Beerbhoom.

EXECUTION CASE No. 1 OF 1890.

Gopal Chandra Chakrabarti and another, decree-holders *versus* Sheikh Iashin, minor, represented by his next friend, maternal uncle Sheikh Abdool Goffar, and another, judgment-debtors.

THE undermentioned property of the above judgment-debtors will be sold by public auction on the 1st day of April 1890 at 12 o'clock noon by the Nazir of the District Judge's Court, Beerbhoom, in the sale-room of the Court-house:—

Schedule of property to be sold.

1. The right, title, and interest of the judgment-debtors in nine gundas three cowris share of lot Baotara within the police-station and sub-registry of Doobrajpur, pergunnah Haripur, bearing towji No. 229 of the Beerbhoom Collectorate; the Government revenue payable is Rs. 1,056-12 in the sixteen annas share

2. One anna one gunda three cowris share of the above mehal, including the khas khamar lands, tanks, and jungle.

3. Eight gundas three cowris share of the above mehal, including khas khamar lands, tanks, and jungle.

(3552—1) KEDAR NATH CHATTERJI, Sub-Judge.

High Court Notice.

ESTATE RAJAH RAJ KISSEN.

Maharajah Sibkristo Bahadoor, *vs.* Kristo Chunder Ghose.

NOTICE is hereby given that on Wednesday, the 12th March next, at the hour of 1 o'clock in the afternoon, the Receiver of the High Court will put up for auction, at his office on the third floor of the Court-house, a lease for six years from the 1st Bysack 1297, corresponding with the 13th April 1890, of the undermentioned property, on the terms and conditions of a draft lease which may be inspected at the said office.

In Zillah Tipperah, Pergunnah Gungamundle, recorded in the Register of the Collector as Towji No. 545, including the Churs appertaining thereto, viz., Noble Chur No. 1290, Chur Bahur *alias* Teetoor Chur No 1508, Chur Surjo and Chur Sunjoora No. 1964, Chur Assad and Doobur Chur No. 21.

In Zillah Dacca, Chur Goagachia No 10503, Chur Jamalpur No. 10505.

For conditions of auction and further particulars apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver High Court

High Court Receiver's office, the 18th February 1890.

(3562—4)

Lost.

THE Government Promissory Note No. 238858 of 4 per cent. of 1865, for Rs 500, originally standing in the name of Debnath Sreemany and last endorsed to Russick Lall Dutt the proprietor, by whom it was never endorsed to any other person; and also the Government Promissory Note No. 188252 of 4 per cent. of 1865, for Rs. 500, originally standing in the name of Kheeromoney Dassee, the proprietress, by whom it was never endorsed to any other person. Payment of the above notes and the interests thereupon have been stopped at the Public Debt Office, Bank of Bengal, and applications are about to be made for the issue of duplicates in favour of the proprietor and the proprietress.

RUSSICK LAUL DUTT, Bally, District Howrah.
(3560—3)

Stolen.

THE Government Promissory Note No. 220972 of the 4 per cent of 1865 for Rs. 500, originally standing in the name of Modhu Sudhir Kowar, and last endorsed to Kedar Nath Majumdar, the proprietor, by whom it was never endorsed to any other person. Payment of the above note and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for issue of duplicates in favour of the proprietor after two years from date of last advertisement.

KEDAR NATH MAJUMDAR, Cooch Behar.
(3497—3)

Notice.

WANTED three Peshkars or Inspectors, on salaries of Rs. 30 per mensem, for settlement work in the Sonthal Pergunnahs. None need apply who have not a knowledge of plane-table, of compass-surveying and experience in settlement work. Applications with copies of certificates to be sent to the undersigned at once.

J. A. CRAVEN, Settlement Officer.
Damp Camp Deoghur, the 10th February 1890.

Notice.

WANTED a Record-keeper for the Maldah Collectorate on a salary of Rs. 40 rising to Rs. 60 by biennial increments of Rs. 2.

No one need apply who has not had previous experience in a similar post. The selected candidate is to furnish security to the extent of Rs. 500, either in Government Promissory Notes or in cash.

Applications will be received up to 25th February next.

POORNO CHUNDRA CHATTERJEE,
Deputy Collector in charge.

Wanted

A CASHIER for the Patna Municipality on salary of Rs. 50 per month. Applicants must possess a good knowledge of English and Hindee, and should be well versed in municipal rules and forms. A security of Rs 3,000 in cash, or landed property, is also required. Applications with testimonials will be received by the undersigned up to 28th February 1890.

SYUD FUZL IMAM, Vice-Chairman.
Patna Municipality, the 14th February 1890.
(3557—2)

Notice.

IN continuation of notice, dated the 9th October 1889 published at page 1656, Part II of the *Calcutta Gazette* of 30th October 1889, regarding the Barque *Grosvener*, it is further notified that the said vessel, with all her masts, sails, gear, and appurtenances which may be on board her on the 19th day of April 1890, will be sold by auction to the highest bidder on Saturday, the 19th of April 1890.

The sale will be held at the Port Office, Chittagong, and will commence at 3 P.M.

Terms—25 per cent. on fall of the hammer if desired by Receiver of Wrecks: the balance within a week of sale and before taking delivery. If the purchaser fails to pay the balance within seven days from date of sale, the vessel will be re-sold at his risk and expense. The vessel can be inspected at Chittagong by application to the Receiver of Wrecks.

L. GOOD, Receiver of Wrecks.
(3498—4)

In the Court of Baboo Shamboo Chandra Nag, Subordinate Judge of Hooghly, Third Court.

RENT EXECUTION CASE No. 58 of 1889.

Nabo Kristo Mookerjee, decree-holder, *versus* Dyal Nath Bhattacharjee and others, judgment-debtors.

THE advertised property of the above judgment-debtors will be put up to sale in the highest bid on the 10th day of March 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Hooghly, in the sale-room of the Court-house:—

Schedule of Property to be sold.

Two annas thirteen gundas one cowree one krantee share of lot Bundeipore, bearing towji No. 77 of the Collectorate of Hooghly, situated in pergunnah Bundeipore, zillah Hooghly, sudder jumma of the whole 16 annas being Rs. 14.782-4-2, the upset value given by the decree-holder is Rs. (5,000), five thousand.

SHAMBOO CHANDRA NAG, Subordinate Judge.
Hooghly, the 7th February 1890. (3529—3)

Notification.

THE Zemindari Dâk Tax in the district of Sarun, for the year 1890-91, is fixed at the rate of 12 annas per cent. per annum on the sudder jamma of estates paying a revenue amounting to Rs. 50 and over.

The amount due for each estate is payable in two instalments—the first being due on the 28th March 1890, and the second on the 28th September 1890.

B. G. GEIDT, For Magistrate.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, No. III (B.C.) of 1885, the District Board of Purneah, by a resolution of their meeting of the 3rd February 1890, have determined to levy road cess for the year 1890-91 at the full rate, *i.e.*, 2 pice per rupee on the annual value of land, &c.

SURENDRA NATH MOZUMDAR, Vice-Chairman,
District Board.
Purneah District Board's Office, the 5th February 1890.

TARA PRASANNA GUHA, B.L., intends to apply for enrolment as a Vakeel of the High Court.
(3196—4)

The Bengal Coal Company, "Limited."

IN terms of clause 53 of the Articles of Association of the Company, the Adjourned Half-yearly Ordinary General Meeting of the Shareholders will be held at the Registered Office of the Company, No. 2, Garstins' Place, Calcutta, on Friday, the 28th February 1890, at 11-30 A. M., for confirmation by Shareholders of the Directors' report for the half-year ended 31st October 1889.

By order of the Board.
C. W. GRAY, Superintendent.
Calcutta, 19th February 1890. (3559-1)

Notice.
In the 1st Court of the Subordinate Judge of Midnapur.

EXECUTION CASE No. 9 OF 1890.

Bhubaneshwar Mitra, decree-holder, *vs.* Nimai Chand Dey and others, judgment-debtors

THE undermentioned property of the judgment-debtors will be sold by public auction at the Court-house of the District Judge of Midnapur on Saturday, the 15th March 1890, at twelve o'clock, in execution of the decree passed by the Subordinate Judge of Midnapur for the realization of Rs. 3,232-8-0 obtained by a mortgage decree due from the debtors to the decree-holder:—

Schedule of property to be sold.

Lot I.—Mahal Anandapur with its eight annas share of mouza Kolagachhia, Government revenue payable is Rs. 159-15-0, and eight annas share of Shamsunderpur, Government revenue payable is Rs. 518-2-0, total Government revenue payable is Rs. 678-1-0, within the police station of Shobong and sub-registry office of Raj Bullabh, pergunnah Moyna Chour, bearing towji No. 73 and A. Register No 116.

DWARKANATH BHUTTACHARJEA, Subordinate Judge,
(3548—1) First Court

Excise.

NOTIFICATION.

1. The right of retail sale of the Liquors and Drugs specified below will be put up to auction at the Opium Sale-room, Board of Revenue, 2, Bankshall Street, on Tuesday, the 4th March 1890, and subsequent days, in the following order :—

Name of article.	Date of sale.
Ganja, Siddhi, Charas, Majum ...	Tuesday, the 4th March 1890.
Opium, Madak, Chandu	Wednesday, the 5th ditto.
Tari	Saturday, the 8th ditto.
Country Spirit, Rum and Imported Liquor by glass.	Monday, Tuesday, and Wednesday, the 10th, 11th and 12th March 1890.

2. A complete list of all the shops for which licenses will be offered and a copy of each form of license are open to general inspection at the Office of the Superintendent of Excise Revenue, 4, Bankshall Street, and the number of these shops is not under any circumstances to be increased during the term of three years ending the 31st March 1893, except under the Board's sanction in each case. The Superintendent of Excise Revenue, however, reserves to himself the right, in case of combination, or for other cause, to transfer (subject to there being no objection on police grounds), either before or after its settlement, any shop from the site specified in the list to some other site, provided that the new site, if it is more than 100 yards from the advertised one, does not bring the shop within a quarter of a mile of any other similar shop whose term of license is unexpired.

3 It is not at present intended to open any other shop during the term of the license ; but the Superintendent of Excise Revenue does not absolutely bind himself in this respect. On special cause shown, and with the sanction of the Board of Revenue in each case, the number of shops may be increased : provided, however, that, whenever a new shop is opened, it will be optional to the holder of a similar license for the sale of Liquor or Drugs, if his shop is within a quarter of a mile of the new shop, to surrender his license without forfeiting his advance, when the Superintendent of Excise Revenue is to re-settle the shop by auction or otherwise.

4. The right of retail sale of the Liquors and Drugs is to be put up to auction at the sanctioned upset prices.

5. The right of retail sale of the Liquors and Drugs is to be put up to auction in separate lots of one or more shops, either in the order specified in the list, or in such other order as the officer conducting the sale may deem fit. When one lot has been sold, the next lot is not to be put up until the sum payable in advance on account of the lot already sold has been actually paid : provided, however, that, where the sum payable exceeds Rs. 25, a promissory note may be taken from any respectable and well-known purchaser in lieu of cash payment.

6. The purchasers of the right of retail sale of Country Spirit, Rum, and Imported Liquors are entitled to sell Imported Liquors by the glass only, the liquor to be drunk *on* the premises.

7. The auction is to be held subject to the following conditions :—

(*a*)—That the Superintendent of Excise Revenue does not bind himself to accept the highest or any bid.

(*b*)—That the settlement with each accepted purchaser will, in Calcutta and the Suburbs, be contingent on the production by him of the usual Police certificate or license, as the case may be, viz.—

For Excise licenses for— Dossta ... ... Rum ... ... Imported Liquors by glass ... ... Tari ... ... Ganja ... ... Siddhi ... ... Charas ... ... Majum	If to be held in Calcutta, a Police certificate in the form prescribed by section 36, Act IV (B C.) of 1866, must be produced ; and if to be held in the Suburbs, a Police certificate in the form prescribed by section 19, Act II (B.C.) of 1866, must be produced.
For Excise licenses for— Opium ... ... Madak ... ... Chandu	If to be held in Calcutta, a Police license in the from prescribed by section 39, Act IV (B C.) of 1866, must be produced; and if to be held in the Suburbs, a Police license in the form prescribed by section 22 of Act II (B.C.) of 1866, must be produced.

(*c*)—That the person accepted as the purchaser is to state in writing, within seven days from the date of settlement, in what building he purposes to open his shop, and is at the same time to submit a plan showing clearly and distinctly what building or portion thereof he desires to be covered by the license, it being understood that the removal of shops to other premises than those named in the list attached to this notification will be contingent on the approval of both the Excise and Police authorities, and that any sum which has been paid as an advance of the license fee under the provisions of clause (*d*) of these conditions will be returned to any person to whom a license may be subsequently refused for Police reasons.

(*d*)—That the term of the license is to be for three years ending the 31st March 1893, and that, except in the case of Tari, the license fee for that period is to be paid in advance in the following instalments :—namely, the sum equivalent to the fee for two months, at the time of sale, and one month's fee on the date on which the currency of the license commences, and one month's fee on the 1st day of every succeeding month, until the whole of the fee due on the license shall have been paid. In the case of Tari only one month's fee

is to be paid in advance at the time of sale, and fifteen days' fee on the date on which the currency of the license commences, and the rest of the fee in half-monthly instalments, viz., on the 1st and 16th day of every month, until the whole of the fee due on the license shall have been paid. This condition is to be strictly enforced in future, and failure to comply with it is to be met by immediate cancelment of the license.

(*e*)—That the purchaser is not to be entitled to receive back any portion of his advance in the event of his shop being closed before the expiration of the term of the license on violation of any of the conditions of the license, or his being convicted of a non-bailable criminal offence, or of any offence against the Excise laws or rules; and in the case of the surrender of a license under Act VII (B.C.) of 1878, the licensee is to give fifteen days' previous notice in writing to the Superintendent of Excise Revenue, and pay a sum equal to the license fee for fifteen days, over and above the amounts already paid in advance; and in the case of the surrender of a license under Act I of 1878, the licensee is to give one month's previous notice in writing to the Superintendent of Excise Revenue, and pay such fine not exceeding six months' license fees as the Superintendent of Excise Revenue may adjudge, over and above the amounts already paid in advance.

(*f*)—That the currency of the license is to commence on the 1st April 1890, on which date the purchaser is to open his shop, in all respects prepared for the accommodation of customers, to be certified by an Excise Officer—failure to comply with this condition is to be met by the immediate cancelment of the license, the forfeiture of the deposit, and the levy of the fees for the month except in the case of delay caused by the non-issue of the Police certificate or Police license, for which a reasonable extension of time may be allowed upon application and cause shown to the Superintendent of Excise Revenue.

(*g*)—That where the amount of the sum payable in advance is required to be paid at once in cash, and the bidder fails to make such payment, the officer conducting the sale is either immediately to put up the lot again for sale, or after the other lots in the list have been disposed of, or he may postpone the sale to such future date as he shall then and there notify; and the defaulting purchaser is to be debarred from bidding for such lot, or for any other lot, and he is not to be allowed to remain in the auction-room; and that the defaulting purchaser will be liable for any loss that may accrue to Government in case it becomes necessary to re-sell a lot at a lower rate, either in consequence of his failure to deposit the sum payable at the time of sale, or to redeem his promissory note on or before 4 P.M. on the day following that on which the note was signed.

(*h*)—That the purchasers are to adhere to all the provisions of the Opium, Excise and Police laws, and of the rules which have been or may from time to time be prescribed by the Board of Revenue.

8. All sales subsequent to the date of the triennial sale in March are to be held subject to the conditions contained in this notification, so far as they may be applicable.

9. Any further information regarding the auction may be had on application at the Office of the Superintendent of Excise Revenue.

D. G. BONNERJEE,
Superintendent of Excise Revenue,
Calcutta, the Suburbs, Howrah, and Bally.

OFFICE OF THE SUPDT. OF EXCISE REVENUE; 4, BANKSHALL STREET, CALCUTTA, *the 14th February* 1890.

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of BUNSIDHUR SINGHANIA, lately carrying on business as piece-goods dealer and commission agent at No. 68, Cotton Street, in the town of Calcutta, under the name, style and firm of KRIPARAM SOOKDYAL, an insolvent.

On Wednesday, the 15th day of January last, it was, on the petition of Jumna Dhur, Joogulkissore, creditors of the said insolvent, adjudged that the said Bunsidhur Singhania hath committed an act of insolvency, under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

E. J. Fink, Attorney. (3538—2)

In the matter of SUJUN COOMAR AND BUNGSEEDHUR of No. 90, Cross Street, in the Town of Calcutta, lately trading in co-partnership as merchants and agents, under the style and firm of Himutram Sujun Coomar, insolvents.

On Monday, the 27th day of January last, it was, on the petition of Luchme Chand, a creditor of the said insolvents, adjudged that the said Sujun Coomar and Bungseedhur have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

C. F. Pittar, Attorney. (3539—2)

Chief Clerk's Office, the 11th day of February 1890.

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Capr Colonies through United Kingdom.	25th Feb. ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	24th „ ...	Ditto.
Mauritius, Mahe (Seychelles), Mayotte, Nossi Be and Réunion.	25th „ ...	Ditto.
Zanzibar, Mozambique, Delagoa Bay, Natal and Cape Colonies	25th „ ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	24th „ ...	Ditto.
Australia, New Zealand, and Tasmania.	24th „ ...	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	20th „ ...	Per French steamer *Niemen*.
Madras and Colombo ...	19th „ ...	Per P. & O. steamer *Peshawur*.
Straits, China and Japan ..	27th „ ...	Per str. *Moray*.
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Ditto ditto ..	21st „ ..	Ditto *Putiala*.
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E. HUTTON, Presidency Postmaster.

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Barker, F. W.
Barnafcom, F.
Baxter, Mrs.
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Berkeley, C. M.
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Bery, Adolph.
Broomsgrove, F.
Bruce, R. G.
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Chatterton, J.
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Keane, J. J.
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Lamb, E. G.
Langer, J. O.
Lindeman, L. K.
Linton, C. E.
Livesey, Thomas.
Livewright, R.
Lloyd, Willis.
Long, W.
MacMaster, Donald.
Mackenzie, J.
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Thompson, Jas.

E. HUTTON,
Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 14th February 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	0 6	At mouth entrance practically closed.
	Thence to Nurpur	0 6	Molnapore.
	From Nurpur to Jungipur ...	1 0	Bangabari.
	„ Jungipur to Berhampur	1 0	Palanpara.
	„ Berhampur to Cutwa ...	1 6	Harinathpore.
	„ Cutwa to Nuddea ...	2 3	Nidoy.
Bhyrub-Jelinghi.	Entrance from Ganges ...	5 6	
	Thence to Akriganj	5 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	4 0	Chukjama.
	Thence to Patkabari	4 6	Modhupore.
	Patkabari to Nuddea	3 9	Punditpore.
Matabanga.	Entrance from Ganges ...	1 6	
	Thence to Chnypara ...	0 6	Sircarpara.
	From Chnypara to Shikarpur	0 6	Pragpore.
	„ Shikarpur to Boalia ...	0 6	Shampore.
	„ Boalia to Chuadanga ...	2 6	Sialmari.
	„ Chuadanga to Kissengunj and Hanakhali...	2 3	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet.	Feet.	
Ganges.	Sahebganj ...	15-2-90	6	1 58	66 42	Below zero.
	Rampore Boalia	15-2-90	12	0·08	42 68	
	Entrance of Bhagirati ...	15-2-90	7	1·85	47·16	
	Entrance of Bhyrub-Jelinghi .	15-2-90	...	6 50	44·80	
	Entrance of Matabanga ...	15-2-90	..	2·35	.....	
Bhagirati...	Berhampur ...	16-2-90	12	2·16	38·95	
Jelinghi ...	Kishnaghur ...	14-2-90	...	3·25	12·14	
	Sarcopgunge ...	15-2-90	6	2·46	0·76	
Matabanga	Harikhali ...	14-2-90	...	2·70	13 55	

C. E. LIVESAY, C.E.,
Exe. Engr., Nuddea Rivers Division.

Berhampore, the 17th February 1890.

Annual Statement of the Seaborne Trade

and Navigation of the Bengal Presidency and of its Chief Port (Calcutta) and each of its Subordinate Ports (Chittagong, Balasore, Cuttack, Pooree, and Naraingunge). Volumes I and II. Price Rs. 20 for 1888-89 Published at the Calcutta Custom House. Previous years volumes can also be obtained at the same price.

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Ditto ditto	1869	...	„	2	4	„
Ditto ditto	1870	...	„	2	6	„
Ditto ditto	1871	...	„	2	8	„
Ditto ditto	1872	...	„	3	0	„
Ditto ditto	1873	...	„	3	0	„
Ditto ditto	1874	...	„	3	0	„
Administration Report of	1870-71	...	„	0	4	„
Ditto ditto	1871-72	...	„	0	4	„
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JOHN ELIOT, M.A., *Meteorological Reporter to the Govt. of Bengal.*

CALCUTTA, the 26th August 1875.

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Subscriptions payable to the Meteorological Reporter to the Government of Bengal for the Bay of Bengal, Daily Report, and to the Accountant and Treasurer Bengal Secretariat, for the other reports.

ALEX. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Office, Bengal, the 17th March 1886.

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H. A. D. PHILLIPS,
Under-Secy. to the Govt. of Bengal.

The 24th November 1886.

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The 29th March 1886.—The subscription to, and postage for, the *Calcutta Gazette* will henceforth be at the following rates, payable in advance :—

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The Calcutta Gazette.

PUBLISHED BY AUTHORITY.

WEDNESDAY, FEBRUARY 19, 1890.

☞ Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART V.

Acts of the Governor General's Council assented to by the Governor General.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Act of the Governor General of India in Council received the assent of His Excellency the Governor General on the 14th February, 1890, and is hereby promulgated for general information :—

ACT NO. I OF 1890.

An Act to make better provision for recovering certain public demands.

WHEREAS it is expedient to make better provision for recovering certain public demands; It is hereby enacted as follows :—

Title, extent and commencement.

1. (*1*) This Act may be called the Revenue Recovery Act, 1890.

(*2*) It extends to the whole of British India, inclusive of Upper Burma and British Baluchistan; and

(*3*) It shall come into force at once.

Definitions.

2. In this Act, unless there is something repugnant in the subject or context,—

(*1*) "district" includes a presidency-town :

(*2*) "Collector" means the chief officer in charge of the land-revenue administration of a district : and

(*3*) "defaulter" means a person from whom an arrear of land-revenue, or a sum recoverable as an arrear of land-revenue, is due, and includes a person who is responsible as surety for the payment of any such arrear or sum.

Recovery of public demands by enforcement of process in other districts than those in which they become payable.

3. (*1*) Where an arrear of land-revenue, or a sum recoverable as an arrear of land-revenue, is payable to a Collector by a defaulter being or having property in a district other than that in which the arrear accrued or the sum is payable, the Collector may send to the Collector of that other district a certificate in the form as nearly as may be of the schedule, stating—

(*a*) the name of the defaulter and such other particulars as may be necessary for his identification, and

(*b*) the amount payable by him and the account on which it is due.

(*2*) The certificate shall be signed by the Collector making it, and, save as otherwise provided by this Act, shall be conclusive proof of the matters therein stated.

(*3*) The Collector of the other district shall, on receiving the certificate, proceed to recover the amount stated therein as if it were an arrear of land-revenue which had accrued in his own district.

Remedy available to person denying liability to pay amount recovered under last foregoing section.

4. (*1*) When proceedings are taken against a person under the last foregoing section for the recovery of an amount stated in a certificate, that person may, if he denies his liability to pay the amount or any part thereof and pays the same under protest made in writing at the time of payment and signed by him or his agent, institute a suit for the re-payment of the amount or the part thereof so paid.

(*2*) A suit under sub-section (*1*) must be instituted in a Civil Court having jurisdiction in the local area in which the office of the Collector who made the certificate is situate, and the suit shall be determined in accordance with the law in force at the place where the arrear accrued or the liability for the payment of the sum arose.

(*3*) In the suit the plaintiff may, notwithstanding anything in the last foregoing section, but subject to the law in force at the place aforesaid, give evidence with respect to any matter stated in the certificate.

Recovery by Collectors of sums recoverable as arrears of revenue by other public officers or by local authorities.

5. Where any sum is recoverable as an arrear of land-revenue by any public officer other than a Collector or by any local authority, the Collector of the district in which the office of that officer or authority is situate shall, on the request of the officer or authority, proceed to recover the sum as if it were an arrear of land-revenue which had accrued in his own district, and may send a certificate of the amount to be recovered to the Collector of another district under the foregoing provisions of this Act as if the sum were payable to himself.

Property liable to sale under this Act.

6. (*1*) When the Collector of a district receives a certificate under this Act, he may issue a proclamation prohibiting the transfer or charging of any immoveable property belonging to the defaulter in the district.

(*2*) The Collector may at any time, by order in writing, withdraw the proclamation, and it shall be deemed to be withdrawn when either the amount stated in the certificate has been recovered or the property has been sold for the recovery of that amount.

(*3*) Any private alienation of the property or of any interest of the defaulter therein, whether by sale, gift, mortgage or otherwise, made after the issue of the proclamation and before the withdrawal thereof shall be void as against the Government and any person who may purchase the property at a sale held for the recovery of the amount stated in the certificate.

(*4*) Subject to the foregoing provisions of this section, when proceedings are taken against any immoveable property under this Act for the recovery of an amount stated in a certificate, the interests of the defaulter alone therein shall be so proceeded against, and no incumbrances created, grants made or contracts entered into by him in good faith shall be rendered invalid by reason only of proceedings being taken against those interests.

(*5*) A proclamation under this section shall be made by beat of drum or other customary method and by the posting of a copy thereof on a conspicuous place in or near the property to which it relates.

Saving of local laws relating to revenue.

7. Nothing in the foregoing sections shall be construed—

(*a*) to impair any security provided by, or affect the provisions of, any other enactment for the time being in force for the recovery of land-revenue or of sums recoverable as arrears of land-revenue, or

(*b*) to authorise the arrest of any person for the recovery of any tax payable to the corporation, commissioner, committee, board, council or person having authority over a municipality under any enactment for the time being in force.

Recovery in British India of certain public demands arising beyond British India.

8. When this Act has been applied to any local area which is under the administration of the Governor General in Council but which is not part of British India, an arrear of land-revenue accruing in that local area, or a sum recoverable as an arrear of land-revenue and payable to a Collector or other public officer or to a local authority in that local area, may be recovered under this Act in British India.

THE SCHEDULE.

CERTIFICATE.

(*See section 3, sub-section (1).*)

From

The Collector of

To

The Collector of .

Dated the of 18 .

The sum of Rs. is payable on account of by , son of , resident of , who is believed (to be at) (to have property consisting of at) in your district.

Subject to the provisions of the Revenue Recovery Act, 1890, the said sum is recoverable by you as if it were an arrear of land-revenue which had accrued in your own district, and you are hereby desired so to recover it and to remit it to my office at .

A. B.,
Collector of

S. HARVEY JAMES,
Secretary to the Government of India.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Act of the Governor General of India in Council received the assent of His Excellency the Governor General on the 14th February, 1890, and is hereby promulgated for general information :—

ACT NO. II OF 1890.

An Act to amend Acts XVII of 1864, X of 1865, II of 1874 and V of 1881.

WHEREAS it is expedient to amend Act XVII of 1864 (*an Act to constitute an Office of Official Trustee*), the Indian Succession Act, 1865, the Administrator General's Act, 1874, and the Probate and Administration Act, 1881; It is hereby enacted as follows :—

[f 1865. [f 1874. [f 1881.

Act XVII of 1864.

1. In section 1 of Act XVII of 1864, before the definition of the expression "High Court", the following shall be inserted, namely :—

Addition to section 1, Act XVII, 1864.

"The word 'Government' shall mean, in relation to the Presidency of Fort William in Bengal, the Governor General in Council; in relation to the Presidency of Fort St. George, the Governor of Fort St. George in Council; and, in relation to the Presidency of Bombay, the Governor of Bombay in Council:".

"Government."

2. After section 1 of the said Act the following shall be inserted, namely :—

Insertion of new section after section 1, Act XVII, 1864.

"2. In this Act references to the Presidency of Fort William in Bengal, the Presidency of Fort St. George and the Presidency of Bombay shall, as regards all persons for whom the Governor General in Council has for the time being power to make laws and regulations, be read as references to the Presidency of Bengal, the Presidency of Madras and the Presidency of Bombay, respectively, as those expressions are severally defined in the law for the time being in force relating to the office and duties of Administrator General."

Construction of references to Presidencies.

3. For section 5 of the said Act the following shall be substituted, namely :—

Substitution of new section for section 5.

"5. Every Official Trustee appointed under this Act shall be appointed and may be suspended or removed from his office by the Government."

Appointment, suspension and removal of Official Trustees.

4. In section 6 of the said Act, for the words "Chief Justice by whom he is appointed" the word "Government" shall be substituted.

Amendment of section 6, Act XVII, 1864.

5. For the portion of section 7 of the said Act beginning with the words "It shall be lawful for the Chief Justice of the High Court" and ending with the words "it shall be lawful for the Chief Justice to appoint some person to officiate as Official Trustee" the following shall be substituted, namely :—

Amendment of section 7, Act XVII, 1864.

"It shall be lawful for the Government from time to time to grant leave of absence to the Official Trustee, but subject always to such and the like rules as may be for the time being in force as to leave of absence of officers attached to the High Court. Whenever any Official Trustee shall obtain leave of absence, it shall be lawful for the Government to appoint some person to officiate as Official Trustee,".

6. To section 11 of the said Act the following shall be added, namely :—

Addition to section 11, Act XVII, 1864.

"Provided that the High Court, by its order appointing the Official Trustee to be trustee of such property, may, for special reasons to be recorded by the Court, direct that the Official Trustee shall be entitled by way of remuneration, in respect of the capital moneys, sums and rents aforesaid, or any of them, to a commission at rates or a rate to be specified in the order and exceeding the rates or rate hereinbefore in this section prescribed."

7. To the said Act, after section 32, the following shall be added, namely :—

Addition of sections to Act XVII, 1864.

"33. The Official Trustee shall comply with such requisitions as may be made by the Government for returns and statements, in such form and manner as the Government may deem proper.

Compliance with requisitions for returns.

"34. (*1*) Notwithstanding anything in the foregoing provisions of this Act, the Governor General in Council, upon the occurrence of any vacancy in the

Division of the Presidency of Fort William in Bengal into Provinces.

office of the Official Trustee of Bengal, may, by notification in the Gazette of India,—

(*a*) divide the Presidency of Fort William in Bengal into so many Provinces as he thinks fit,

(*b*) define the limits of each of those Provinces, and

(*c*) appoint an Official Trustee for each Province,

and, subject to the provisions of this section, the following consequences shall thereupon ensue, namely:—

(i) the office of Official Trustee of Bengal shall cease to exist:

(ii) the Official Trustee of a Province shall have the like rights and privileges, and perform the like duties, in the territories and dominions included in the Province as the Official Trustee of Bengal had and performed as Official Trustee therein:

(iii) the functions of the Government under this Act shall, as regards the territories and dominions included in the Province, be discharged by the Governor General in Council:

(iv) the functions of whatsoever kind assigned by the foregoing provisions of this Act to the High Court of Judicature at Fort William in Bengal in respect of the territories and dominions included in a Province shall be discharged by such High Court as the Governor General in Council may, by notification in the Gazette of India, appoint in this behalf:

(v) in the foregoing provisions of this Act, the word 'Presidency' shall be deemed to include a Province, the expression 'Chief Justice' the Chief Justice, senior Judge or sole Judge, as the case may be, of a High Court appointed by the Governor General in Council under clause (iv) of this sub-section, and the expression 'Advocate General' a Government Advocate or other officer appointed by the Governor General in Council to discharge for a Province the functions under this Act of an Advocate General for a Presidency: and,

(vi) generally, the provisions of the foregoing sections and of any other enactment for the time being in force with respect to the Official Trustee of Bengal shall, in relation to a Province, be construed, so far as may be, to apply to the Official Trustee appointed for the Province under this section.

(*2*) Any proceeding which was commenced before the publication of the notification dividing the Presidency of Fort William in Bengal into Provinces, and to or in which the Official Trustee of Bengal in his representative character was a party or was otherwise concerned, shall be continued as if the notification had not been published, and the Official Trustee of the Province in which the Town of Calcutta is comprised shall for the purposes of the proceeding be deemed to be the successor in office of the Official Trustee of Bengal and shall hold and execute the trusts of which immediately before the publication of the notification the Official Trustee of Bengal was trustee in all respects as if he were such successor.

(*3*) The Court of the Recorder of Rangoon shall be deemed to be a High Court for the purposes of clause (iv) of sub-section (*1*)."

Official Trustees holding office at commencement of this Act.

8. Every person holding the office of Official Trustee at the commencement of this Act shall be deemed to have been appointed under Act XVII of 1864 as amended by this Act.

The Indian Succession Act, 1865.

Addition of new section after section 326, Act X, 1865.

9. After section 326 of the Indian Succession Act, 1865, the following shall be inserted, namely:— X of 1865

"326A. Where a person not having his domicile in British India has died leaving assets both in British India and in the country in which he had his domicile at the time of his death, and there have been a grant of probate or letters of administration in British India with respect to the assets there and a grant of administration in the country of domicile with respect to the assets in that country, the executor or administrator, as the case may be, in British India, after having given such notices as are mentioned in section 320 and after having discharged, at the expiration of the time therein named, such lawful claims as he knows of, may, instead of himself distributing any surplus or residue of the deceased's property to persons residing out of British India who are entitled thereto, transfer, with the consent of the executor or administrator, as the case may be, in the country of domicile, the surplus or residue to him for distribution to those persons."

Transfer of assets from British India to executor or administrator in country of domicile for distribution.

The Administrator General's Act, 1874.

Amendment of definitions of "Presidency of Bengal" and "Presidency of Bombay" in section 3, Act II, 1874.

10. In clause (*b*) of the definition of the expression "Presidency of Bengal" in section 3 of the Administrator General's Act, 1874, the word "Burma" shall be substituted for the words "British Burma", and to clause (*a*) of the definition of the expression "Presidency of Bombay" in the same section of that Act the words "and under the administration of the Chief Commissioner of British Baluchistan" shall be added. II of 1874

Substitution of new paragraph for first paragraph of section 37, Act II, 1874

11. (*1*) For the first paragraph of section 37 of the said Act, as amended by section 5 of the Administrator General's Act, 1881, beginning with the words "If in cases falling within section 36" and ending with the words "as if such letters had been granted to him", the following shall be substituted, namely:— IX of 1881

"If, in cases falling within section 36, no person claiming otherwise than as a creditor to be entitled to a share of the effects of the deceased obtains, within three months, a

certificate from the Administrator General under the same section, or letters of administration to the estate and effects of the deceased, and such deceased was not a Hindu, Muhammadan, Parsi or Buddhist, or exempted under
1865. the Indian Succession Act, 1865, section 332, from the operation of that Act, the Administrator General may administer the estate and effects without letters of administration, in the same manner as if such letters had been granted to him;".

(*a*) The portion of section 5 of the Adminis-
1881. trator General's Act, 1881, beginning with the words "and in section 37 of the same Act" and ending with the words "from the operation of that Act" is hereby repealed.

12. After section 41 of the said Act the following shall be inserted, namely:—

Addition of new section after section 41, Act II, 1874.

"41A. Where a person not having his domicile in British India has died leaving assets both in British India and in the country in which he had his domicile at the time of his death, and proceedings for the administration of his estate with respect to assets in British India have been taken under section 36 or section 37, and there has been a grant of administration in the country of domicile with respect to the assets in that country, the holder of the certificate granted under section 36 or section 37, or the Administrator General, as the case may be, after having given such notices as the High Court may by any general rule to be made from time to time prescribe, for creditors and others to send in to him their claims against the estate of the deceased, and after having discharged, at the expiration of the time therein named, such lawful claims as he knows of, may, instead of himself distributing any surplus or residue of the deceased's property to persons residing out of British India who are entitled thereto, transfer, with the consent of the executor or administrator, as the case may be, in the country of domicile, the surplus or residue to him for distribution to those persons."

Transfer of certain assets from British India to executor or administrator in country of domicile for distribution.

13. To section 64 of the said Act the following shall be added, namely:—

Addition to section 64, Act II, 1874.

"The District Judge may cause to be paid out of any property of which he or such officer has charge, or out of the proceeds of such property or of any part thereof, such sums as may appear to him to be necessary for all or any of the following purposes, namely:—

(*a*) the payment of the expenses of the funeral of the deceased and of obtaining probate of his will or letters of administration to his estate and effects,

(*b*) the payment of wages due for services rendered to the deceased within three months next preceding his death by any labourer, artizan or domestic servant, and

(*c*) the relief of the immediate necessities of the family of the deceased,

and nothing in section 279, section 280 or section 281 of the Indian Succession Act, 1865, or in any other law for the time being in force with respect to rights of priority of creditors of deceased persons, shall be held to affect the validity of any payment so caused to be made."

14. To Part VI, and after section 66, of the said Act the following shall be added, namely:—

Addition to Part VI, Act II, 1874.

"67. The Administrator General shall comply with such requisitions as may be made by the Government for returns and statements, in such form and manner as the Government may deem proper."

Compliance with requisitions for returns.

15. To the said Act, after Part VI and section 67 thereof, the following shall be added, namely:—

Addition to Act II, 1874, of a Part respecting the division of the Presidency of Bengal into Provinces.

"PART VII.

DIVISION OF THE PRESIDENCY OF BENGAL INTO PROVINCES.

68. (*1*) Notwithstanding anything in the foregoing provisions of this Act, the Governor General in Council, upon the occurrence of any vacancy in the office of the Administrator General of Bengal, may, by notification in the Gazette of India,—

Division of the Presidency of Bengal into Provinces.

(*a*) divide the Presidency of Bengal, as defined in this Act, into so many Provinces as he thinks fit,

(*b*) define the limits of each of those Provinces, and

(*c*) appoint an Administrator General for each Province,

and, subject to the provisions of this section, the following consequences shall thereupon ensue, namely:—

(i) the office of Administrator General of Bengal shall cease to exist:

(ii) the Administrator General of a Province shall have the like rights and privileges, and perform the like duties, in the territories and dominions included in the Province as the Administrator General of Bengal had and performed as Administrator General therein:

(iii) the functions of the Government under this Act shall, as regards the territories and dominions included in a Province, be discharged by the Governor General in Council:

(iv) the functions of whatsoever kind assigned by the foregoing provisions of this Act to the High Court at Calcutta in respect of the territories and dominions included in a Province shall be discharged by such High Court as the Governor General in Council may, by notification in the Gazette of India, appoint in this behalf, and probate or letters of administration granted to the Administrator General of the Province by the High Court so appointed shall have the same effect throughout the Presidency of Bengal, as defined

in this Act, or, if the Court so directs, throughout British India, as, but for the abolition of the office of Administrator General of Bengal, probate or letters of administration granted to the holder of that office by the High Court at Calcutta would have had:

(v) in the foregoing provisions of this Act the word 'Presidency' shall be deemed to include a Province, the expression 'Presidency-town' the place of sitting of a High Court appointed by the Governor General in Council under clause (iv) of this sub-section, and the expression 'Advocate General' a Government Advocate or other officer appointed by the Governor General in Council to discharge for a Province the functions under this Act of an Advocate General for a Presidency:

(vi) the provisions of this Act with respect to the commission of the Administrator General of Bengal shall regulate the commission payable to the Administrator General of a Province: and,

(vii) generally, the provisions of the foregoing sections of this Act with respect to the High Court at Calcutta, and the provisions of those sections or of any other enactment with respect to the Administrator General of Bengal, shall, in relation to a Province, be construed, so far as may be, to apply to the High Court and Administrator General, respectively, appointed for the Province under this section.

(*2*) Any proceeding which was commenced before the publication of the notification dividing the Presidency of Bengal into Provinces and to or in which the Administrator General of Bengal in his representative character was a party or was otherwise concerned shall be continued as if the notification had not been published, and the Administrator General of the Province in which the town of Calcutta is comprised shall for the purposes of the proceeding be deemed to be the successor in office of the Administrator General of Bengal.

(*3*) The Court of the Recorder of Rangoon shall be deemed to be a High Court for the purposes of clause (iv) of sub-section (*1*).

(*4*) Notwithstanding any division of the Presidency of Bengal, as defined in this Act, into Provinces under this section, the Administrator General of the Province in which the town of Calcutta is comprised shall be deemed to be the Administrator General for the whole of the said Presidency for the purposes of the Regimental Debts Act, 1863." 26 & 27 c. 57.

The Probate and Administration Act, 1881.

16. After section 145 of the Probate and Administration Act, 1881, the following shall be inserted, namely:— V of 1

Addition of new section after section 145, Act V, 1881.

"145A. Where a person not having his domicile in British India has died leaving assets both in British India and in the country in which he had his domicile at the time of his death, and there have been a grant of probate or letters of administration in British India with respect to the assets there and a grant of administration in the country of domicile with respect to the assets in that country, the executor or administrator, as the case may be, in British India, after having given such notices as are mentioned in section 139 and after having discharged, at the expiration of the time therein named, such lawful claims as he knows of, may, instead of himself distributing any surplus or residue of the deceased's property to persons residing out of British India who are entitled thereto, transfer, with the consent of the executor or administrator, as the case may be, in the country of domicile, the surplus or residue to him for distribution to those persons."

Transfer of assets from British India to executor or administrator in country of domicile for distribution.

S. HARVEY JAMES,
Secretary to the Government of India.

The Calcutta Gazette.

PUBLISHED BY AUTHORITY.

WEDNESDAY, FEBRUARY 19, 1890.

☞ Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART VI.

Bills introduced into the Council of the Governor General for making Laws and Regulations, or published under Rule 22.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Bill was introduced into the Council of the Governor General of India for the purpose of making Laws and Regulations on the 14th February, 1890:—

No. 4 of 1890.

A Bill to amend Acts I of 1859, VII of 1880 and V of 1883.

WHEREAS it is expedient to amend Act I of 1859 (*for the amendment of the law relating to Merchant Seamen*), the Indian Merchant Shipping Act, 1880, and the Indian Merchant Shipping Act, 1883, in manner hereinafter appearing; It is hereby enacted as follows:— VII of 1880. V of 1883.

Act I of 1859.

Addition of section after section 24, Act I, 1859.

1. After section 24 of Act I of 1859 the following shall be inserted, namely:—

"24A. (*1*) When a running agreement with the crew of a foreign-going ship has been made under section 23 and the ship arrives after the next following thirtieth day of June or thirty-first day of December at a port of destination in India which is not the port therein at which the crew have agreed to be discharged, the master may, with the previous sanction of the shipping-master, renew the agreement with the crew, or may be required by the shipping-master so to renew the agreement, for the voyage from such port of destination to the port in India at which the crew have agreed to be discharged.

Renewal of running agreements in certain cases.

"(*2*) If the master of the ship is required by the shipping-master to renew the agreement as aforesaid and refuses so to renew it, any expenses which may be incurred by the Government for the subsistence of the crew and their conveyance to the port at which they have agreed to be discharged shall be a charge upon the ship, and shall be recoverable as if they were expenses incurred in respect of distressed seamen under the provisions of Chapter III of the Indian Merchant Shipping Act, 1880." VII of 1880.

Amendment of section 115, Act I, 1859.

2. To section 115 of the same Act the following shall be added, namely:—

"and for the repayment to the Secretary of State for India in Council of all expenses which may be incurred by the Government in respect of any such lascar or other native seaman who may be discharged or left behind at any port out of India and becomes distressed and is relieved under the provisions of the Merchant Shipping Act, 1854, section 211, and the enactments amending the same." 17 & 18 Vict., c. 104.

The Indian Merchant Shipping Act, 1880.

Amendment of section 74, Act VII, 1880.

3. In section 74 of the Indian Merchant Shipping Act, 1880, after the words "so appointed" the words "or bringing within such limits any wreck which has been found and taken possession of elsewhere" shall be inserted. VII of 1880.

The Indian Merchant Shipping Act, 1883.

Amendment of section 6, Act V, 1883.

4. To section 6 of the Indian Merchant Shipping Act, 1883, the following shall be added, namely:— V of 1883.

"(*4*) The word "coasts" in this section includes the coasts of creeks and tidal rivers."

New sub-section substituted for sub-section (*1*) of section 7, Act V, 1883.

5. For sub-section (*1*) of section 7 of the same Act the following shall be substituted, namely:—

"If the Local Government to which the report or notice prescribed by the last foregoing section has been made or given, or within whose territories any competent witnesses of any such loss, abandonment, stranding, damage or casualty as is described in clause (*a*), (*b*), (*c*) or (*d*) of sub-section (*1*) of the same section have arrived or are to be found or any evidence of

Power for Local Government to appoint Special Court of Investigation.

such supposed loss as is described in clause (*e*) of the same sub-section can be obtained, is of opinion that a formal investigation into the facts mentioned in any of the said clauses is requisite or expedient, such Local Government may appoint a special Court, consisting of not less than two nor more than four persons, and direct that Court to make the investigation, and may fix the place for making the same."

Amendment of section 8, Act V, 1883.

6. In section 8 of the same Act, after the words "Local Government" the words "or by such officer as the Local Government has empowered in this behalf" shall be inserted.

Amendment of section 20, Act V, 1883.

7. In section 20 of the same Act, clause (*a*) and the proviso shall be repealed.

Addition of section after section 24, Act V, 1883.

8. After section 24 of the same Act the following shall be added, namely:—

"24A. (*1*) Notwithstanding anything in the foregoing provisions of this Act, a certificate (whether of competency or service) which has been granted by any Local Government to a master, mate or engineer, but has not been granted under the provisions of the Merchant Shipping (Colonial) Act, 1869, or of any Order in Council under the said Act, may, if a Court conducting an investigation under this Act finds that the loss, stranding or abandonment of or damage to any ship, or loss of life, has been caused by the wrongful act or default of the master, mate or engineer, or that he is incompetent or has been guilty of any gross act of drunkenness, tyranny or other misconduct, be suspended or cancelled by the Court:

Power to Court to suspend or cancel certificates granted by Local Government.

32 Vict., c. 11.

"Provided that the Court shall not suspend or cancel a certificate unless the holder of the certificate was furnished before the commencement of the investigation with the copy of the report or statement required by section 9 or section 10, as the case may be.

"(*2*) At the conclusion of the investigation, or as soon afterwards as possible, the Court shall state in open sitting the decision to which it may have come with respect to the cancelment or suspension of any certificate.

"(*3*) A master, mate or engineer whose certificate has been cancelled or suspended by the Court shall, on demand by the Court, deliver the certificate to the Court, and the Court shall forward it to the Local Government together with the report which it is required by section 17, sub-section (*1*), to transmit to that Government.

"(*4*) A master, mate or engineer failing to deliver a certificate as required by sub-section (*3*) shall be punished with fine which may extend to five hundred rupees.

"(*5*) The duties imposed and powers conferred by sections 22, 23 and 24 on the Local Government which cancels or suspends a certificate shall, when a Court has under this section cancelled or suspended a certificate, be performed and exercised by the Local Government to which the Court has forwarded the certificate under sub-section (*3*), as if such Local Government had itself cancelled or suspended the certificate under section 20."

STATEMENT OF OBJECTS AND REASONS.

THE objects of this Bill are the following:—

(*a*) to amend Act I of 1859 (*for the amendment of the law relating to Merchant Seamen*) so as to make it lawful for the master of a foreign-going ship, when the term of a running agreement has expired at a port in India which is not also the port at which the crew have agreed to be discharged, to renew the agreement, with the sanction of the shipping-master at the port at which the agreement has expired, for the voyage from that port to the port in India which is the port of discharge agreed to by the crew (section 1);

(*b*) to provide in section 115 of the same Act for the indemnification of the State against expenses incurred in the relief of lascars left abroad by masters of foreign vessels (section 2);

(*c*) to provide, in amendment of section 74 of the Indian Merchant Shipping Act, 1880, that all wreck found outside, but brought within, the local limits for which a Receiver of Wreck has been appointed, as well as wreck found within those limits, shall be delivered to the Receiver (section 3);

(*d*) to explain that the word "coasts" in section 6 of the Indian Merchant Shipping Act, 1883, includes the coasts of creeks and tidal rivers (section 4);

(*e*) to provide in Chapter II of the same Act for giving power to a Local Government to convene a Court of Investigation into a casualty which has occurred in the jurisdiction of, or been reported to, another Local Government, when it may be advisable to hold such a Court by reason of the witnesses being within the jurisdiction of the Local Government or for other sufficient cause (section 5);

(*f*) to provide in section 8 of the same Act that the Governor of Bombay in Council may delegate to the Political Resident at Aden his powers under that section in respect of investigations at Aden into shipping casualties (section 6); and

(*g*) to provide, in amendment of Chapter III of the same Act, that Courts of Investigation may cancel or suspend local certificates of competency or service as they may now cancel or suspend Board of Trade and Colonial certificates.

2. These amendments of Act I of 1859 and the Indian Merchant Shipping Acts of 1880 and 1883 have been shown by experience to be either necessary or desirable.

The 7th February, 1890.

D. BARBOUR.

S HARVEY JAMES,
Secretary to the Government of India.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 19, 1890.

[Third Publication.]

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION.

No. 23 Marine, dated Calcutta, the 30th January 1890.

UNDER the powers conferred upon him by section 36 of the Indian Steam-ships Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to Engineers of sea-going steam-ships.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates of competency granted to persons who pass requisite examinations.

1. Certificates of competency will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose Examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint

Examinations continued till all the candidates are examined

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates who have then presented themselves and whose names appear upon the Port Officer's list on the day of examination are examined.

Application how to be made.

3. The application for examination is to be made on Form Exn. 3, which must be filled up at the Port Office. The Form Exn. 3 properly filled in, together with the Candidate's Indentures of Apprenticeship, testimonials, and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required.

4. Applicants will be required to produce, in addition to the usual Forms of Discharge, satisfactory testimonials as to sobriety, experience, ability, and general good conduct for at least the 12 months immediately preceding the date of application to be examined, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an Employer; if at sea, by the Master and Chief Engineer.

5. In cases where a testimonial from the Chief Engineer, or from the Master, is for any sufficient reason not obtainable, one may be submitted from the Superintending Engineer in place of that of the Chief Engineer, and one from the Managing Owner or Secretary or Chairman of a large Company in place of that of the Master, but in every such instance the testimonial must declare that the facts stated are in accordance with the reports made by the Chief Engineer or the Master, as the case may be, or else that the facts are within the writer's personal knowledge.

6. As such testimonials may have to be verified before the Candidate can be examined, it is desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners

7. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age.

8. Should any doubt exist as to the age of a Candidate, he will be required to produce a Certificate of Birth or Baptism.

Foreigners to know English.

9. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel.

Verification of services, &c., by Articles.

10. Services which cannot be verified by proper entries in the Articles of the Ships in which the Candidates have served cannot be counted.

Service on a lake or river.

11. In addition to the required workshop time, service on a lake or river, in a steamer in which the aggregate piston area of the propelling engines proper amounts to at least 2,000 (two thousand) circular inches will be accepted towards qualifying a candidate to be examined for a certificate of competency as follows:—

Two months of river or lake service, in a capacity not lower than that of Third Engineer, may be deemed equivalent to one month of sea service, provided that,

For a Second Class Certificate, not less than three months of the qualifying service must be actual sea service, and that,

For a First Class Certificate, at least six months of the qualifying service must have been at sea in a grade not below that of Third Engineer, where an engineer of a lower grade is carried. During the last 18 months of this service the candidate must have been in possession of a Second Class Engineer's Certificate of competency.

Assistant Engineer.

12. Service entered upon a ship's Articles as having been performed in the capacity of Assistant Engineer must be supported by proof of the Candidate having acted as Second, Third, or Fourth Engineer, as the case may be.

Service in home or coasting trade.

13 The service required by the Regulations to qualify a candidate for examination is to be regarded as referring to service in the Foreign Trade only. Service in the Home or Coasting Trade must amount to at least half as much again as that required by the Regulations to make up for the time spent in Port, *e g.*, for every twelve months' service under the Regulations, eighteen months' service in the Home or Coasting Trade will be required. In all cases the length of service is deemed to commence on the date of signing of the articles of agreement, and to end on the date of discharge.

Service as Engineer only accepted as qualifying service.

14. Service in the engine-room (afterwards referred to) for qualifying a candidate to be examined for a Second-class Engineer's Certificate must be only in those capacities which afford opportunities of obtaining practical experience as an engineer; and service in the capacity of fireman, stoker, donkeyman, greaser, winchman, labourer, engineer's steward, or any other capacity than that of engineer taking watch on engines and boilers for propelling will not be accepted

Service as Third and Fourth Engineer.

15. Service as Third and Fourth Engineer in Foreign-going steamers, where more than three or four engineers, as the case may be, are carried, their names being all entered on the Articles in their respective ratings, may be accepted equally with service as Second Engineer to qualify a Candidate for examination for a First-class Engineer's Certificate, provided he has, during the whole of such service, been in possession of a Second-class Engineer's Certificate (Imperial, or under Order in Council), and provided also that he was regularly in charge of a watch. In the case of Fourth Engineers, however, eighteen months of such service must be proved for every twelve months required by the Regulations.

16. Service in a capacity below that of Fourth Engineer cannot be accepted as qualifying for any class of certificate unless the testimonials of the candidate explicitly certify that during such service he has been taking regular watch in the engine-room, and that the Chief Engineer or Superintending Engineer considers him properly qualified by that experience to act as Chief Engineer of a Foreign-going steamer of 99 horse-power nominal. *In any case the applicant must prove that he has had the responsible charge of the engines or boilers on regular watch for at least twelve months of sea service, of which for not less than six months he must have been in charge of the propelling engines and rated on the articles not lower than Fourth Engineer.* Service below the grade of Fourth Engineer.

17. Having "responsible charge" will be understood to imply, in regard to the engines, that the applicant, for the time specified, was, on regular watch, the person responsible for carrying out the orders of the engine-room telegraph, and, in regard to the boilers, that he was, similarly for the period specified, the person responsible for regulating the feeds.

18. When the workshop service has been performed in a place *where steam-engines are not made*, and the class of work done is similar to that required in engine-making, the service may be accepted with an additional year in the engine-room; that is, three years' workshop service and two years in the engine-room, of which one year must have been at sea. The approval of the Government must be obtained in every such case before the authority to receive a certificate is issued by the Examiners. Workshop service.

19. When the workshop service has been performed in a place *where engines are made*, and the department in which the applicant has been principally engaged is not "*fitting*" or "*erecting*," if the nature of the service be such as is useful training for an Engineer, the Government may, on proper representation of the circumstances, see fit to accept the service as qualifying along with subsequent experience, but in every such case the applicant must prove additional engine-room service as required above. The approval of the Government must likewise be obtained.

20. If a candidate has served in the Engine Room with a Second class Certificate in the capacity of a Second Engineer in Foreign-going Steam-Ships under 100 horse-power, or in Home Trade Passenger Steam-Ships, which are not required by law to carry a certificated Second Engineer, his service may be accepted without reference to the vessel's horse-power, provided he has been on the ship's articles as Second Engineer, and produces certificates of discharge as Second Engineer, for the required period. Service as Second Engineer where certificate not required

21. The Government may see fit to allow an applicant who, in consequence of service abroad, has been unable to obtain a Second-class Certificate, to be examined for a First-class Certificate, although he has not obtained a Certificate of the lower grade, provided he is able to satisfy them as to the satisfactory character of his services. First-class certificates without second.

22. In such cases (para. 21) or in cases where the candidate is already in possession of a Certificate of Service, should he fail to pass the examination for the higher grade, but passes the examination for the lower grade, he may receive a Certificate accordingly, but no part of the fee will be returned. Unsuccessful candidates may in certain cases receive certificates for inferior grade.

23. A candidate who under the above regulation (para. 21) has been permitted to be examined for a First-class Certificate without first obtaining a Second-class Certificate of Competency, and who fails in his examination in practical knowledge, may not be re-examined for a Certificate of the higher grade until he has served 12 months as Second Engineer with a Second-class Engineer's certificate of competency as required by the Regulations. Consequence of failure in such cases.

24. If the candidate fails altogether, *i.e.*, both in the examination for the lower as well as for the higher grade of Certificate (para. 21), he may be re-examined for a *Second-class Certificate only*, subject to the usual regulations relating to failure.

If after passing examination services are found to have been insufficient.

25. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, the Certificate may be issued to him, or he may be allowed to go up for re-examination without payment of further fee, when he has performed the amount of service in which he was deficient as the Government may direct.

Certificate of lower grade may be granted on certain conditions.

26. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate may be placed to his credit.

May have to be re-examined for certificate of higher grade.

27. In such a case when the applicant has by further service made up the time in which he was found to be short, he may be required, before he can receive the higher certificate, to be re-examined in all the subjects

Qualifications for Certificates of Competency.

Qualification of candidate for Second-class Engineer's Certificate.

28. SECOND-CLASS ENGINEER.—A candidate for a Second-class Engineer's certificate must be not less than 21 years of age;

(*a*) He must have served an apprenticeship to an Engineer for three years in England or five in India at least, and prove that during the period of his apprenticeship he has been employed on the making and repairing of engines:—Or if he has not served an apprenticeship, he must prove that for not less than three years in England or five in India he has been employed as a journeyman mechanic in some factory or workshop* on the making or repairing of engines.† In either case he must also have served one year at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade‡; or

(*b*) He must have served at least four years at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade.

(*c*) He must be able to give a description of boilers, and the methods of staying them, together with the use and management of the different valves, cocks, pipes, and connections.

(*d*) He must understand how to correct defects from accident, decay, &c., and the means of repairing such defects.

(*e*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*f*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*g*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total break-down.

(*h*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*i*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

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* No period of service in a drawing office can be allowed to count for more than six months workshop time

† These may be either land or marine engines.

‡ *See* paragraph 13 as to service in Home or Coasting Trade.

29. First-class Engineer.—A candidate for a First-class Engineer's Certificate must be not less than 22 years of age. Qualification of candidate for First-class Engineer's certificate.

30. In addition to the qualification required for a Second-class Engineer—

(*a*) He must either possess, or be entitled to, a First-class Engineer's certificate of service; or, in the event of his not being so possessed or entitled, he must have served for one year at sea as Second Engineer with a Second-class Engineer's Certificate of Competency, or for two years at sea as Second Engineer with a Second-class Engineer's Certificate of Service: or having served one year at sea as Second Engineer with a Second-class Engineer's certificate of Service, he must show, in addition, at least six months' service as Chief Engineer in a vessel required by law to carry at least one Engineer holding a certificate. (*See also paragraph* 15 *as regards service as Third and Fourth Engineer.*)

The Examiner should therefore be satisfied that an applicant for a First-class Engineer's Certificate has not only been *in possession* of a Second-class Certificate for the periods above stated, but that he has actually *served* for such periods in the Engine Room at sea with a Second-class Certificate in the capacities referred to, and that his name has been entered in the articles of agreement accordingly. (*See also para.* 21.)

(*b*) He will be required to make an intelligible hand sketch, or a working drawing of some one or more of the principal parts of a steam-engine; and to mark in, without a copy, all the necessary dimensions in figures, so that the sketch or drawing could be worked from.*

(*c*) He must also be able to take off and calculate indicator diagrams.

(*d*) He must be able to calculate safety-valve pressures and the strength of the boiler shell, stays, and riveting.

(*e*) He must be able to state the general proportions borne by the principal parts of the machinery to each other, and to calculate the direct stress, the torsional stress, and the bending stress in round bars, and the direct stress and the bending stress in rectangular bars with given loads.

(*f*) He must be able to explain the method of testing and altering the setting of the slide valves, and to sketch about what difference any alteration in the slide valve will make in the indicator diagram, and also the method of testing the fairness of shafts and of adjusting them.

(*g*) He must be conversant with surface condensation, superheating, and the working of steam expansively.

(*h*) His knowledge of arithmetic must include the mensuration of superficies and solids and the extraction of the square root, and the application of these rules to questions relating to the power, duty, and economy of engines and boilers, and to the stresses in rods, shafts, and levers of the engine.

Service in the Royal Navy.

31. Engineers and Assistant Engineers of the Royal Navy are at liberty to apply for Certificates of Service, and to be examined for Certificates of Competency in the Mercantile Marine; but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty. Engineers.

32. As regards the grades of Certificates of Competency for which Officers of the Royal Navy can be examined, the rule is—"First-class Assistant," or "Assistant Engineers" of the Royal Navy may be examined for Second-class Engineers' Certificates of "Competency"; "Engineers" of the Royal Navy for First-class Certificates of Competency. Grades.

* *See* Appendix P.

Temporary service in the Royal Navy.

33. Temporary active service as Engineer in the Royal Navy counts in applications for Certificates of Competency in the same way and to the same extent only as in the case of the service of Mercantile Marine Engineers, that is to say, so much of the applicant's time as is spent in active service at sea, or in a ship commissioned for sea service, counts as "sea service;" and so much of the applicant's time as is spent in active service on boardship in harbour, and not commissioned for sea, counts as workshop time—*See* paragraph 28, sub-section (*a*).

Engineer Artificer.

34 Service performed in the capacity of Engineer Artificer may count to qualify a Candidate for examination for a Second-class Engineer's Certificate of Competency in the Mercantile Marine. If the service has been on shore, it will count only as workshop time. If in the Engine Room at sea, the Candidate must prove that during such service he had charge of an Engine Room watch.

Fees.

Fees to be paid by applicants for examination. (Exn. 17.)

35. Candidates for examination, in making their Application on Form Exn. 3, will be required to pay the Examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

36. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

37. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

38. The fees are as follow:—

Second-class Engineer's Certificate	...	Rs.	12
First-class Engineer's Certificate	...	,,	24
First-class Engineer's Certificate if candidate is already in possession of a Second-class Certificate of competency granted by the Board of Trade, or by the Government of a British possession under Section 8 of the Merchant Shipping (Colonial) Act, 1869	...	Rs.	12
Renewal of any certificate ...	...	,,	5

General Rules as to Examinations.

Candidates not to take books, &c., into examination room.

39. All books necessary for the use of candidates under examination will be provided by the Government, and applicants are not permitted to take into the examination room any book, paper, document, or memoranda of any description whatever.

40. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners, but they will not be allowed to work out the problems on a slate or on waste paper. The additional sheets must be attached to, and form part of, the examination papers.

41. Candidates for First-class Certificates have to pass an examination in Rough Working Drawing, which may, at the candidates' option, be either hand sketches clearly dimensioned and complete in the necessary *views* and *sections*, or drawings to a scale. Drawing boards and T squares will be provided by the Government, but the applicants will have to bring with them any drawing instruments they may require.*

* *See* Appendix B.

42. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination ; and no part of the fees he may have paid for examination will be returned to him. This penalty also applies to any breach of paragraph 34. Punishment for breaking rules.

43. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the Examiners may substitute other data or another question. Leaving examination room.

44. All applicants presenting themselves for examination will be required to give written answers to ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency, and of Masters and Mates for certificates in steam." These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling. Questions from Form Exn. 51*a*.

45. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

46. Examiners may add to their *vivâ voce* questions on the practical management of steam-engines and boilers any of those contained in Exn. 15*a*.

47. If at the expiration of the time allowed the candidate has worked out and answered correctly the whole of the questions set to him, and given satisfactory answers in the *vivâ voce* examination, he will be declared to have passed.

48. If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *vivâ voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiners that the applicant is competent to take charge of engines of 100 nominal horse power or upwards, he will be declared to have passed

49. In other cases he will be declared to have failed.

50. A report of the examination, and the examination papers, will be forwarded to the Port Officer on the Form (Exn. 15). Exn 15.)

51. If the candidate passes, he will receive the Form Exn. 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c., will be returned at the same time. Notification of having passed will be given to successful candidates. (Exn. 16.)

Failure.

52. If the applicant fails in practical knowledge, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service at sea as Engineer from the date of failure. If he fails in arithmetic or drawing only, he may come up again at any time.

General.

53. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed.

54. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

55. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

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* *See* Appendix A.

APPENDIX A.

Form Exn. 15a.

Elementary Questions for the First Examinations of Engineers for Certificates of Competency and of Master and Mates for certificates in steam.

TO ENGINEER EXAMINERS.

EXAMINERS will require all candidates to fill up a form, Exn. 15*b*., of which a copy is enclosed, and they will forward the same to the Port Officer for transmission to the Government along with the report of the examination.

It is intended to issue questions of a more advanced character for first-class candidates, but in the meantime the questions for both classes of Engineers and also for Masters and Mates passing a Voluntary Examination in steam will be taken from the same book of "Elementary Questions," and candidates for first-class certificates are expected to show their superiority by giving answers more complete than those of the other candidates

The arithmetical questions for Engineers and the *viva voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences

Masters and Mates may cancel questions A, B, and C, but they should fill up the form for questions D, E, F, and G, as evidence of their practical knowledge.

Exn. 15b.

Port	Class for which examined
Date	Candidate's name

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the engine-room at sea, and in what capacities?

D. With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *see* the book of Elementary Questions. The questions need not be written; only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS

1.

What parts of an engine are generally made of wrought-iron?

2.

What parts of an engine are generally made of cast-iron?

3.

For what parts of an engine is steel sometimes used?

4.

What parts of an engine are generally made of brass or gun-metal?

5.

Where is "white metal" sometimes used? On account of what property possessed by it is it adopted? What objection is there to its more general use?

6.

For what parts is Muntz metal sometimes used? Is it malleable? For what properties is it valued?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other?

9.

What are the different properties of cast-iron, of wrought-iron and of steel?

10.

What is meant by the terms "breaking stress," "proof stress," "safe working stress"?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron?

12.

Tempering steel: how is it done, and in what order do the colours come?

13.

What is case-hardening?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short"?

15.

What is meant by "welding"? Which of the common metals can be welded?

16.

The expansion of metals by heat: give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot? When the material is steel, what precautionary treatment of these plates is afterwards necessary?

18.

What is double riveting? In what parts of cylindrical marine boilers is double riveting employed? In which of the shell seams is it most necessary?

19.

What is "caulking," and how are seams prepared for caulking?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans?

21.

What strain per square inch is allowed on boiler stays?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected?

24.

How are boiler tubes fixed? What are "stay tubes," and how are they secured?

25.

Where is it generally that boiler tubes leak? How is this defect raired? What are the causes of this leaking?

26.

What are the causes of cracked tube plates? Where are the cracks situated? How are they repaired?

27.

What is the difference between a "dry uptake" and a "wet uptake"? Which requires most repair? Why? Where have you seen a wet uptake?

28.

What is a superheater? What is its construction? What valves are on it? There is sometimes a gauge glass on it; what is that for?

29.

What parts of a marine tubular boiler are first injured by shortness of water?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used?

31.

Priming: to what causes is it attributed? What means are applied to prevent it? What evils may be produced by it?

32.

Funnel draught: what makes it? What checks it?

33.

Flame is sometimes seen at the top of the funnel: what causes this appearance? Is it beneficial or is it detrimental? Why so?

34.

A blast pipe: what is its construction? Where is it placed? For what is it used?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted?

36.

Blow-off cocks are sometimes fitted with a spanner guard: for what purpose is this? Describe how the guard is formed?

37.

Test cocks or water-gauge cocks: where are they placed? At what heights? Must the cocks themselves be at those heights? What provision is made for cleaning these cocks should they ever become choked? When there are no test cocks how is the height of the water ascertained?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation?

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses? There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear, and the engine still moving?

63.

What are "double beat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers?

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double-acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that, when opened, admits steam from the slide valve casing to the exhaust port; what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing? Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in when under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used? What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action? To what part of the engine is it connected? Whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed? In that case are the feathering levers on the striking face or on the back of the float? When the paddle shaft has an outer bearing, how is the eccentric made?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats? Are they all lubricated? With what?

103.

What is a "Disconnecting Paddle Engine"? At what place is the disconnecting effected? How is it accomplished? In which of the cranks of a disconnecting engine are the crank pins fixed?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines? For what steamers are disconnecting paddle engines frequently employed?

105.

What are expansion joints? Where are they necessary? What attention do they require? Of what should the working surfaces be made?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied? How is this prevented in the construction of a steam trunion pipe for an oscillating engine?

107.

Describe an oil cup with a syphon worsted? How is the worsted arranged? How is it cleaned? How far down the tube does it extend?

108.

Describe a thrust bearing; which of the surfaces wears? Why are there sometimes a number of oil tubes for one thrust bearing?

109.

What parts of a screw shaft are generally covered with brass? Why is this necessary? About what thickness is the brass?

110.

What is the stern tube or screw shaft pipe? Why is a pipe of such a length required? Of what is it made? How is it fixed at each end?

111.

What is a lignum vitæ bearing? How is the wood fitted? Where is such a bearing generally used?

112.

How is a screw propeller fixed on the shaft? What means are used to prevent its getting loose at sea?

113.

Where are sluice valves placed? What large sluice valve is there in almost all screw steamers? From what position should this valve be worked? Why so? What attention should it receive?

114.

With a condensing engine, what valves or cocks are on the skin of the ship in the engine-room and in the stokehole?

115.

What are the necessary fittings of a marine boiler?

116.

With a surface condensing engine, what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action? To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected?

121.

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller, at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion ?

134.

What is the explanation of the economy of the surface condenser ?

135.

What is the construction of a surface condenser ? Of what are its tubes made ? How are they fixed ? How are they kept tight ? What is done with a split tube ?

136.

Where do surface condensers foul ? How are they cleaned ?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied ?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation ?

139.

How can the formation of black smoke be prevented ? Describe smoke preventing apparatus ?

140.

What is meant by "circulation" in a boiler, and what are the results of defective circulation ?

141.

What means are sometimes adopted to improve the circulation in a boiler ?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler ?

143.

Describe a ship's side air-pump discharge valve ? In what respects does it sometimes differ from a common stop valve, and what attention does it require ?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated ?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks ?

146.

What is the measure of a horse power ? How is indicated horse power ascertained ?

147.

Has "nominal horse power" a fixed meaning ? What is the use of this expression ? What is generally taken as the measure of one horse-power nominal ?

148.

What is "back pressure" in a cylinder ? About how much is it in each of the cylinders in your last steamer ? Is excessive cushioning ever a trouble under certain conditions in modern engines ? Say when and why and in which cylinder this occurs ?

149.

What is meant by "speed of piston" ? About how much is the speed of piston in modern marine engines ?

150.

What is "atmospheric pressure" ? What is its average amount ? What instrument tells this amount ?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction? Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163.

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge: in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer; its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs., and (5) of strain about 150 lbs.; also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, gets short of water although the feed valve is open its proper amount; to what causes might this be due?

179.

Of what are furnace bars generally made? About what thickness are they at top? About what space is between them? Whether are the bars put further apart for Newcastle coal or for Welsh coal?

180.

Which burns faster, Newcastle coal or Welsh coal? Which is the flaming coal? Which makes most smoke?

181.

About how many tons of steam coal will be burnt per day in four furnaces each 3′ 0″ wide, and of about the usual length? On what grounds do you say so?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone? On what grounds do you say so? What percentage more coal would be required to propel the same steamer one knot faster?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work? On what grounds do you say so?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam? Which will take place earlier, and which later distinguishing between the up stroke and the down stroke?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke?

186.

A screw propeller is getting loose; it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts?

APPENDIX B.

Form Exn. 17.

Examination in Rough Working Drawing for a First-Class Engineer's Certificate of Competency.

1. The regulations in regard to the qualifications of a candidate for a first-class Engineer's Certificate of Competency specify that—

> "He must be able to make rough working drawings of the different parts of the engines and boilers."
>
> "He must be able to state the general proportions borne by the principal parts of the machinery to each other."

2. In accordance with these clauses, a candidate for a first-class certificate is required to make a rough working drawing of the parts specified on the other side of this leaf. A mechanic who has been some years in charge of marine engines and boilers ought by this time to have familiarly in his mind the general construction of at least one set of engines and boilers, say that set he was

last with. Fine drawing is not expected, and in the proportions of the parts a wide margin will be allowed ; absurd dimensions will be failure in practical knowledge.

3. The drawing must, however, be practically a working drawing, giving a sufficient number of views to show the parts fully—sections, plans, or elevations, just as the candidate would require to be supplied to him if he had to make the parts to the design of another person.

4 A clear hand sketch showing the construction, completely and fully dimensioned, will be accepted if the candidate prefers this alternative.

5. A portion only of the parts specified may be accepted in place of the whole, if that portion is sufficient to show that the candidate has a good practical idea of the construction of the parts, and a fair notion of their general proportions or dimensions.

6. Candidates are hereby cautioned not to put on paper what they have not fully considered, and deliberately intend to be understood, as their statement of what they know about the construction of any part required.

7. The statements given in by a candidate may be in themselves, apparently, of little importance, but as sample material from which the state of the candidate's knowledge of engines and boilers is to be inferred, every detail which is glaringly inconsistent with a sound knowledge of the use of the part, or in which an essential consideration has evidently been overlooked, is an important element in the description which the candidate is giving of his own qualifications.

8. The candidate is advised not to begin more than he can clearly finish in the time allowed. An important object in this part of the examination is to ascertain whether the candidate can be trusted to mark all necessary dimensions upon a sketch or a drawing. The test of this is, practically, the making of the part from the sketch without having to supply additional dimensions, and without measuring the drawing. To prove this ability the candidate must fully dimension the parts shown in his sketch or drawing, notwithstanding that the parts may be correctly drawn to scale. A drawing is fully dimensioned when no part of it is left to the option of the party who is to work to the drawing

9. To prevent misunderstanding, however, when the candidate has been led into showing more of the details than he has time fully to finish, he should name, in the statement on the other side, the particular parts which he has fully dimensioned.

10. All dimensions should have lines and darts, to indicate distinctly the points between which the dimensions are given.

11. Beware of writing cross dimensions upon centre lines, or upon longitudinal dimension lines. This is not an order but a recommendation.

12. The candidate is not expected to design anything; he has merely to sketch or draw a something with which he is expected to be already familiar.

13. Pencil in nothing after half-past 3 ; all the dimensions, the figures, and the darts must be inked in; employ the remaining time in examining the drawing and in inking in any figures which may have been before overlooked, and in checking the dimensions.

14 Make sure that you will have sufficient room on the drawing sheet to show all the necessary views. You can have another sheet or drawing paper if necessary. All the paper used must be forwarded with the drawing.

15 Fill in and sign the following statement.

(Specimen.)

Form Exn. 17a.

Subject for Examination in Rough Working Drawing.

(Read the foregoing general instructions.)

A common slide valve with its spindle. Show also an outline section of the ports at the cylinder face. Show the provision for connecting the slide valve to the spindle.

The candidate is requested to fill up the following, and to attach this paper to his drawing.

STATEMENT BY THE CANDIDATE.

The accompanying drawing, made by me this day, without referring to any document, and without the assistance of any person, is intended by me to be sufficient for the new construction of the parts above described to fit the places of similar parts which are to be removed. The construction is similar to what I have been with in the_____steamer_____, but the dimensions may be different.

The diameter of the cylinder is_____

The stroke of the piston is_____

The stroke of the valve is_____

The cover at top end on steam side is_____

The cover at bottom end on steam side is _____

The lead at top is intended to be_____

The lead at bottom is intended to be_____

The inside cover is +_____or____.

The thickness of the face of valve is_____

The thickness of the body of valve is_____

The greatest opening for steam will be_____

That gives an area equal to one_____

The opening for exhaust when the crank is on the top centre is_____

That gives an area equal to_____th of piston.

The length of the connecting rod is _____

The valve will cut off steam on the down stroke at_____

The valve will cut off steam on the up stroke at_____

The Candidate may omit this part if he chooses.

The parts fully dimensioned, in ink, are_____

_____

Dated at _____

this_____ day of_____18

_____ Applicant.

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

FIRST CLASS ENGINEER.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of* 1884, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18——.

Under-Secy. to the Govt. of Bengal.

BENGAL.

No. of Certificate [redacted]

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

This Certificate is given upon an ORDINARY EXAMINATION passed at _____ *on the*_____ *day of*_____ 18 .

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. *This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act* 25 *and* 26 *Vic., cap.* 63, *sec.* 23, *to cancel or suspend Certificates.*

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18 .

Registered,
Port Officer of Calcutta.

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

SECOND CLASS ENGINEER.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of* 1884, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

*this*_____*day of*_____18___.

Under-Secy. to the Govt. of Bengal

BENGAL.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____*on the*_____

*day of*_____18____.

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____*day of*_____18____.

Registered.
Port Officer of Calcutta.

NOTIFICATION.

No. 24 Marine, dated Calcutta, the 30th January 1890.

UNDER the powers conferred upon him by section 36 of Act VII of 1884 (the Indian Steam-ships Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engine-drivers of sea-going steam-ships having engines of under 50 nominal horse-power.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

2. The application for examination is to be made in Form Exn. 3*a*, which must be filled up at the Port Office. The Exn. 3*a* properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

3. A candidate for a certificate of competency under these rules must be not less than 22 years of age.

4. He must have served three years as principal serang or tindal in the engine-room of a sea-going steamer under a certificated Engineer.

5. He must have the testimonial shown in Appendix A filled up by the Engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

6. He must pass a *viva voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

7. He must, if required, be able to show his practical qualifications by one week's trial in a steamer, after fulfilling the other tests to which he will be subjected.

8. He must show a knowledge of the use of brine cocks and blowing off, of the salinometer, and of the care of the boiler in salt-water.

9. Candidates for examination, in making the application on Form Exn. 3*a*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them; but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service or are able to produce satisfactory testimonials, as the case may be.

10. The fee for examination under these rules is ten rupees, and the amount must be remitted with the application to the Port Officer. In any case in which a candidate offers money to any other officer than the Port Officer, and in any place but the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

11. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

12. In case of failure, candidates may be re-examined *de novo* after a lapse of six months, if the past examination showed that they might reasonably be expected to qualify.

13. Certificates of competency shall be made and issued by the Government in the form hereunto annexed.

14. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

TESTIMONIAL.

I hereby certify that has served with me in the engine-room of as principal seraug or tindal for a period of , during which time he has discharged his duties to my entire satisfaction.

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a sea going steamer having engines of under 50 nominal horse-power.

Signed

No. and description of Certificate.

Note.—Any Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applicant's eligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINE-DRIVER OF A SEA-GOING STEAM VESSEL UNDER ACT VII OF 1884.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Engine-driver on a sea-going Steam-ship having engines of under 50 nominal horse-power, I do hereby, in pursuance of Act VII of 1884, grant you this CERTIFICATE OF COMPETENCY as Engine-driver.*

By order of the Government of Bengal,

Given *under my Hand and Seal.*

The _____ *day of* _____ 18____.

Under-Secretary to the Govt. of Bengal.

No. of Certificate

*Bearer*_____ *son of*_____ *by caste*_____

Date and Place of Birth, showing Village, Thana and District*_____

*Residence, showing Village, Thana and District*_____

*Height*_____

*Personal description, stating particularly any permanent marks or scars*_____

*No. of Register Ticket*_____

*Signature*_____

Any Engine-driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer of Calcutta.

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Registered.

Port Officer of Calcutta.

* If not known exactly, must be stated on the best information or evidence.

NOTIFICATION.

No. 25 Marine, dated Calcutta, the 30th January 1890.

UNDER section 10 of the Indian Merchant Shipping Act, 1859, the Lieutenant-Governor is pleased, with the sanction of the Governor-General in Council, to make the following rules for the conduct of examinations for Masters and Mates of foreign-going ships and as to the qualifications to be required. These rules are in supersession of the rules issued under the notification dated the 28th of August 1877.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government, as, if this be not done, delay may be occasioned.

Testimonials of character, conduct, and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form, Exn. 2, as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners, and of British Seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to age.

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British Vessel. In the case of natives of India, who may not be able to speak English, their Certificates will be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the Articles of Agreement were signed by the Applicant, and to end at the date when he was discharged as shown on the Articles of Agreement. The Certificates of Discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

Verification of services, &c., by Articles

9. Services, which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served, cannot be counted. For instance, a man will state his

service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of employment by the Master, to the effect that he served as Mate, when, on reference to the Articles, it appears that he has actually been rated as Boatswain; the service in such a case will not be regarded as having been in the capacity of Mate.

Promotion during Voyage

10. Whenever a man has, from any cause, been regularly promoted on a vacancy in the course of the Voyage from the rank in which he first shipped, and such promotion, with the ground on which it has been made, is properly entered in the Articles and in the Official Log Book, he will of course receive credit for his service in the higher grade for the period subsequent to his promotion.

Service in the coasting trade

11. Service in the coasting trade may be allowed to count as service, in order to qualify a Candidate for examination for a Certificate of Competency for Foreign-going Ships, it being understood, however, that service in the coasting trade must amount to half as much again as service in the foreign trade, and that service in a lower grade than that of First or Only Mate in the coasting trade will not be recognised as officer's service.

12. Three years' service as Mate in the coasting trade, together with at least nine months' service as Master, may be allowed to count as service for a Master's Certificate, provided the Candidates' entire service at sea calculated as above is sufficient, and that his services as Mate and Master in the coasting trade can be proved by the Articles, and provided he has already passed an examination *for the Foreign Trade*, unless, *under special circumstances*, the Government see fit to dispense with this latter provision.

13. Service in Pleasure Yachts under 80 tons, if performed within Home Trade limits, will not be accepted towards qualifying a Candidate for examination.

14. Service in Pleasure Yachts will not be accepted at all unless verified by satisfactory proofs, and it must be distinctly understood that accepted service is confined to *actual sea service*, service in harbour or port being inadmissible. *See also para.* 21.

Service as an Apprentice.

15. Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound, to the effect that he has performed his service faithfully for the whole time agreed upon.

Service as 3rd or 4th Mate to qualify for 1st Mate.

16. Service as Third or Fourth Mate may be accepted as equivalent to service as Second Mate to qualify a Candidate for examination for a Certificate of Competency as First Mate, provided he is able to produce a satisfactory testimonial from the Master or owner of the vessel in which the service was performed, showing that he has had charge of a watch while serving as such Third or Fourth Mate, and that during the whole of the time claimed he was in possession of a Second Mate's Certificate of Competency, valid in the United Kingdom.

Service as 3rd or 4th Mate to qualify for Master.

17. Service as Third or Fourth Mate may also be accepted on the same conditions to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. If a Candidate has had no service as First Mate he must have been six and-a-half years at sea, of which two and-a-half years must have been as Mate of a lower grade under the above-named conditions. It will also be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations.

Service on board a Training Ship.

18. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself creditably, and passed a good examination in seamanship so

far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

19. No period of service on board a training ship will be allowed to count for more than one year's sea service, nor can it be accepted as equivalent to service in square-rigged vessels.

Service in Auxiliary Screw Whaling ships.

20. Service in Auxiliary Screw Whaling Ships and other Vessels with auxiliary steam power, which use their screws only in calms or during light winds, is considered as service performed in Sailing Vessels. Such service is not to be accepted in cases where service on board Foreign-going Steam-ships is required.

Service in Trawlers, Yachts, &c.

21. Service performed in Trawlers, Yachts, &c., *alone* will not qualify a Candidate for examination for a Foreign-going Certificate. He must show that he has served, in addition thereto, 18 months in an ordinary trading vessel.

Service in capacities other than as Apprentice or Seaman.

22. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the Applicants have served Failing satisfactory evidence, the Applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth-waters.

23. Service performed on rivers, no matter of what size, or in smooth-water or partially smooth-water cannot be accepted.

Loss of sight.

24. A person who has lost the sight of one eye cannot be allowed to be examined for a Certificate of Competency. If he already holds a Certificate, he will not be allowed to be examined for a Certificate of a higher grade.

Service in Light Ships and Engine-room.

25. Service in Light Ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

26. In the case of service on board Excursion Steamers only such service as has been performed actually at sea can be accepted.

27. A First Class Pilot, with one year's Sea Service since he obtained his Pilot's Certificate, may be examined for a First Mate's Certificate for Foreign-going Ships. A Hooghly Master Pilot is for the purpose of this rule to be considerd a First Class Pilot.

Services as Pilot's Apprentice.

28. Half the amount of service performed as an Apprentice in a Pilot Vessel propelled by sails may count as actual Sea Service to qualify for examination for a Certificate of Competency.

Desertion and gross misconduct.

29. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequent service and good conduct at sea, unless the Local Government after having investigated the matter should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

30. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government is satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted in certain conditions.

31. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

32. In such a case when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

33 The Government have made the following arrangements for the Examination of persons as to their ability to distinguish Colours:—*

34 Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

35 Any person, including the holders of Certificate of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

36. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a Certificate to that effect.

37. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

38. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2.—Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

39. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will, in such event, be returned to him.

40. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

41. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form 2ª.

42. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

43. Should he pass this Examination the following statement will be written on the face of the higher Certificate which may be granted to him, viz.: "This officer has failed to pass the 'Examination in Colours.'"

44. Should he ultimately fail to pass the Examination in Navigation and Seamanship a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

45. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a "Foreign-going Ship."

Foreign-going Sailing Ships

46 EXAMINATION IN COLOURS.—All Candidates for Certificates of Competency must first be examined in colours *

Second Mate.

47. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea. He must also prove that he has served at least one year in a square-rigged sailing vessel within the last five years. *See also para.* 11.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years

* *See* Appendix L.

within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

48. In Navigation, &c.—He must write a legible hand, and will be required to give in writing, *vide supplementary viva voce* test, page 37, definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant, with its adjustments, and be able to observe with it, find the index error by the horizon, and *read off* and *on the arc.*† He must also pass a satisfactory examination in the International Code of Signals.‡

49. In Seamanship, &c.—He must give satisfactory answers as to the standing and running rigging of ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c.; as to the management of a ship when under canvas; of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals,§ and be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals ‖ He must be able to mark and use the lead and log lines. He must also understand the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature appertaining to the duties of the Second Mate of a ship, which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Second Mates' Certificates of Competency for Foreign-going Steam-ships.

50. An ONLY and FIRST MATE.—An Only Mate and a First Mate must be not less than nineteen years of age, and must have served five years at sea, of which in the case of a First Mate, one year must have been as Second or Only Mate. *See* also paras. 11, 16 and 27.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediataly preceding the date of his application to be examined.

Only and First Mate.

A Candidate for an Ordinary Certificate of *any* grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined

51. In Navigation—In addition to the qualifications required for a Second Mate, an Only and First Mate must be

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* *See* Appendix A.

† *See* Appendix B.
‡ *See* Appendix C.
§ *See* Appendix D.
‖ *See* Appendix E.

able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun, both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and be able to use and adjust the sextant,* and to find the index error by the sun; also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find, on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relative to cyclones or revolving storms.§

52. In Seamanship, &c.—In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship, and to keep a clear anchor; to carry out an anchor; how to manage a ship in stormy weather; how to cast a ship on a lee shore; how to secure the masts in the event of accident to the bowsprit; and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds and the stowage of explosives. He must also know how to rig a sea anchor, and what means to apply to keep a vessel disabled or unmanageable out of the trough of the sea, and lessen her lee drift; how to get a cast of deep sea lead in heavy weather; and answer any other questions appertaining to the duties of an Only and First Mate of a ship which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Only and First Mate's Certificates of Competency for Foreign-going Steam-ships.

53. A MASTER must be twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a-half years must have been as Second Mate of a Foreign-going Ship, during the last twelve months of which service as Second Mate he must have been in possession of a First Mate's Certificate. *Vide also paras.* 11, 12 and 17. Master

On and after the 1st June 1889, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

A Candidate for an Ordinary Certificate of any grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

54. In Navigation.—In addition to the qualifications required for a Second, Only, and First Mate, a Master must be able to compute the latitude from the meridian altitude of a star, &c. He must be able to find the magnetic bearing from

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* *See* Appendix H.

† *See* Appendix I.

‡ *See* Appendix F. The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them showing the "true" or "magnetic" points of the compass respectively.

§ *See* Appendix K.

equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram, which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron.* He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time and to work out practically the correction to apply to soundings taken at a given time and place to compare with the depth marked on the chart.†

55. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct jury rudders for both wooden and iron vessels, and also rafts. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends, or in any danger or difficulty; or if disabled or unmanageable and on a lee shore; heaving a keel out, &c. He must explain the mode of procedure when placing ship in dry dock, directing repairs, and if putting in to port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties, and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter party, bills of-lading, Lloyd's agent, and as to the nature of bottomry, also bills-of-exchange, surveys, averages, &c., and must answer any other questions of a like nature appertaining to the management of a ship which the Examiners may consider it necessary to touch upon. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Masters' Certificates of Competency for Foreign going Steam-ships.

Fore and Aft rigged ships.

Certificates for Fore and Aft rigged Vessels.

56. Certificates for the grades of Master, First Mate, Only Mate, and Second Mate, on which the words "for Fore and Aft rigg d vessels only" will be written, will be issued to Candidates who have not complied with the regulation which requires them to have served at least one year in square-rigged *sailing* vessels, or who prove in course of examination that they are ignorant of the management of square-rigged ships.

57. A certificate "for Fore and Aft rigged vessels only" will not entitle the possessor to act in a capacity for which a certificate is required in square-rigged vessels, amongst which are classed full-rigged ships, barques, brig, barquentines, brigantines, and steam-ships carrying square sails.

58. A Candidate possessing a certificate "for Fore and Aft rigged vessels only," and desiring to obtain an ordinary certificate of the same grade, must prove that he has served at sea at least one year in a square-rigged *sailing* vessel, and will be re-examined both in navigation and seamanship.

Foreign-going Steam-Ships.

Qualifications for Certificates of Competency for Foreign-going Steam-ships only.

59. Certificates of Competency will be issued, subject to the examinations hereinafter described, for officers who have served in steam-ships, and who, owing to absence of service in square-rigged sailing ships, cannot under the

* *See* Appendices G and M.
† *See* Appendix F.

existing regulations obtain Certificates of Competency to act in the capacity of Masters or Mates of square-rigged ships.

60. These certificates will entitle the holders to go to sea as Masters and Mates of foreign-going steam-ships. but will not entitle the holders to go to sea as Masters or Mates of foreign-going sailing ships.

61. There will be no distinction in respect of "Fore and Aft" and "Square-rigged" steam-ships.

62. EXAMINATION IN COLOURS.—All Candidates for Certificates of Competency must pass the examination in Colours.

63. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea *See* also para 11. Second Mate

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

64. IN NAVIGATION, &c.—He must write a legible hand, and will be required to give in writing (*vide supplementary viva voce test, page* 39) definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by a parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant with its adjustments, and be able to observe with it, find the index error by the horizon, and read *off* and *on* the arc.† He must also pass a satisfactory examination in the International Code of Signals.‡

65. IN SEAMANSHIP, &c.—He must give satisfactory answers as to the standing and running rigging of steam-ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c., as to seeing everything in readiness and clear for getting under way, and as to the precautions to be then observed with regard to engines, propellers, &c.; as to the management of a steam-ship when under canvas; and of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals,§ and be able to describe the signals of distress and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals.‖ He must be able to mark and use the lead and log lines. He must also understand the construction, use, and action of the sluices, and of the water-ballast tanks, engine-room, telegraph, &c.; the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature, appertaining to the duties of the Second Mate of a steam-ship, which the Examiners may think necessary to put to him.

66. AN ONLY AND FIRST MATE.—An Only Mate must be not less than nineteen years of age, and must have served five years at sea. A First Mate must be nineteen years of age, and must have served five years at sea, of which Only and First Mate.

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* *See* Appendix A. † *See* Appendix B. ‡ *See* Appendix C.
§ *See* Appendix D. ‖ *See* Appendix E.

one year must have been as Second or Only Mate of a Foreign-going Steam-ship. *See also paras.* 11, 16 *and* 27.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last three years immediately preceding the date of his application to be examined

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

67. In Navigation.—In addition to the qualifications required for a Second Mate, an Only or First Mate must be able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and to be able to use and adjust the sextant,* and to find the index error by the sun; and also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relating to cyclones or revolving storms.

68. In Seamanship.—In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship and to keep a clear anchor, to carry out an anchor; how to manage a steam-ship in stormy weather, and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds, and the stowage of explosives. He must be able to describe the effects of the screw race upon the rudder; and the effect produced on the direction of the head of the ship by going [ahead] [astern] with a [right] [left] handed screw when the rudder is [ported] [starboarded]. He must also know how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, and lessen her lee drift. How to turn a steam-ship short round; how to get cast of deep sea lead in heavy weather, and other questions of a like nature appertaining to the duties of an Only and First Mate of a steam-ship, which the Examiners may think necessary to put to him.

Master

69. A MASTER—Must be not less than twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Steam-ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a-half years must have been as Second or Only Mate in a Foreign-going Steam-ship, during the last twelve months of which he must have been in possession of a First Mate's Certificate. *See also paras.* 11, 12 *and* 17.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

70 In Navigation.—In addition to the qualification required for a Second, Only, and First Mate, he must be able

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* *See* Appendix R. † *See* Appendix L ‡ *See* Appendix F.
Also page 24 foot-note ‡.

to compute the latitude from the meridian altitude of a star, he must be able to find the magnetic bearing from equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron * He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time, and to work out practically the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart.†

71. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct rafts and jury rudders suitable for a screw steam-ship. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of steam-ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends; or if disabled and on a lee shore. How to use steam appliances in the event of fire, and the best arrangement for towing vessels under different circumstances, placing ship in dry dock, directing repairs, and the mode of procedure if putting into port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter-party, bills-of-lading, Lloyd's agent, and as to the nature of bottomry; also bills-of-exchange, surveys, averages, &c., and answer any other questions of a like nature, appertaining to the management of a steam-ship, which the Examiners may consider it necessary to touch upon.

Service in Royal Navy.

Service in Royal Navy

72. Officers of the Royal Navy are at liberty to apply for Certificates of service and to be examined for Certificates of Competency in the Mercantile Marine, but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty.

73 Officers of the Royal Navy desirous of being examined for Certificates of Competency in the Mercantile Marine will be required to prove the following service, of which twelve months must have been sea service under sail alone.

74. For Second Mate.—A Candidate must produce satisfactory evidence of four years' service at sea, or that he has attained the rank of acting Sub-Lieutenant.

75. For Only Mate.—A Candidate must prove five years' service at sea.

76. For First Mate or Masters.—A Candidate must show that he has attained the rank of Sub-Lieutenant, or Navigating Sub-Lieutenant.

Voluntary Examination in the Laws of the Deviation of the Compasses of Iron Ships.

Voluntary Examination of Masters and Mates in the Syllabus.

77. Any Master or Mate who wishes to pass a *voluntary* examination in the Syllabus* of examination on the Laws of the Deviation of the Compasses of an Iron Ship, &c., can at any time be examined upon filling up the form of application, and the payment to the Port Officer of the prescribed fee. If the candidate passes the examination successfully, an endorsement to that effect will be duly made upon the Master's or Mate's Certificate held by him.

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* *See* Appendices G and M. † *See* Appendix F. ‡ *See* Appendix A.

Failure.

Re-examination in case of failure

78. In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship* he will not be re-examined *until after a lapse* of SIX MONTHS. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government, should they see fit.

79. The Examiners in making out their report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also insert this information under Division II. in Form Exn. 2.*

80. If he fails three times in *Navigation* he will not be re-examined until after a lapse of THREE MONTHS from the date of the *last failure*.

Certificate of lower grade.

81. If a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a Certificate of a lower grade, he may, if he desires it, receive a Certificate of such lower grade.

82. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

83. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

84. If a Candidate fails in his examination for an ordinary Certificate, he may, if qualified, and upon payment of another fee, &c, be examined for a Certificate of Competency for Foreign-going Steam-ships without waiting the usual time after failure.

Fees.

85. Candidates for examination, in making their application on Form Exn. 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination, s 133.

86. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months.

87. If a Candidate fail in his examination *no part of the fee will be returned to him.*

88. The fees are as follow:—

FOR "FOREIGN-GOING SAILING AND STEAM SHIPS."

	Rs.
Second Mate	12
First and Only Mate, if previously possessing an inferior certificate, either granted by the Board of Trade, or by the Government of a British Possession *under section* 8 *of the "Merchant Shipping (Colonial) Act*, 1869"	6
If not	12
Master	24
Where a Candidate is in possession of a Certificate for Fore and Aft rigged Vessels, for an Ordinary or Steam-ship Certificate of the same grade	12

* *See* Appendix H.

FOR "VOLUNTARY EXAMINATION IN STEAM."

	Rs.
Mate (Only or First)	12
Master	12

FOR "VOLUNTARY EXAMINATION IN DEVIATION OF THE COMPASS."

	Rs.
Mate (Second, Only or First)... ...	12
Master	12

GENERAL.

89. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed.

90. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate and the other shall be kept and recorded by the Port Officer of Calcutta.

90A. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

General Instructions to Examiners and Candidates.

Prohibited books and papers.

91. All instruments necessary for use in the examinations are supplied by the Government.

92. Before commencing the examination, the tables or desks must be cleared of all scraps of paper, or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document, or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present.

93. No instructors will be allowed on the premises.

Candidates not to leave premises during examination.

94. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a Candidate has occasion to visit the retiring room he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book, kept for the purpose, the exact time of his leaving and returning to the examination room. When only a few Candidates are under examination, two persons will not be allowed to leave the room at the same time.

Position of Candidates at examination.

95. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed.

Blotting paper.

96. If any blotting paper is allowed it should be black; and when the first examination paper is issued each Candidate should be furnished with a piece which should be returned to the Examiner upon the completion of the last paper.

How examination papers should be issued.

97. The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems. It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed.

In certain cases problems may be corrected on morning following examination day.

98. When from the large number of the Candidates, it may be found impossible to look over the work, on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Re Exn 4A

99. The paper (Exn. 4A) is only for those Candidates who present themselves for examination for the first time. It is intended not only to ensure on the part of the Candidate a knowledge of the meaning of a variety of terms of great use to the Navigator respecting which much ignorance exists at present, but at the same time to test his handwriting and spelling.

100. In using this paper, the Examiner will place a mark *against* the numbers of the particular questions which he selects for answers, and not less than ten questions should be selected. The Candidate will then write against the questions so marked his definition of the terms in a clear and legible hand, so as to prevent the possibility of any letter being mistaken. Attention should be paid to the spelling and writing of all grades of Candidates. The *supplementary viva voce* test should also be applied as usual.

Re-questions on Deviation of the Compass. (Exn 7, Appendix G.)

101. In the questions on Deviation of the Compass (Exn. 7, Appendix G) the Examiner should indicate by a mark against at least twelve of the questions for answers, and those indicated must be correctly answered. The selected questions should be varied frequently, and no two Candidates should have precisely the same questions. The Candidate should be furnished with sheets of blank ruled paper which is supplied for that purpose with instructions that he is to write only on one side of the paper, and to answer each of the questions against which a mark is placed in a clear and legible hand, and to commence each answer by writing down the number of the question to which it relates in the margin left for that purpose In answering question 19, besides giving a full explanation in writing, of the *tentative* method* of compass adjustment (accompanied by the usual *supplementary viva voce* test), the Candidates should be required to illustrate by diagrams how the poles of the magnets are placed with regard to the compass needle for correcting the semi-circular deviation, as well as the heeling error, and also how the soft iron should be placed for correcting the quadrantal deviation, or the Candidate may be tested by "Beall's Compass Deviascope," in which case it will not be necessary for him to give the written answer and sketches.

Viva voce examination.

102. In the *viva voce* examination a reasonable time should be allowed for the Candidate to give his answers. No assistance should be given or leading question put.

Adjustment of sextant

103. Particular attention should be paid to the adjustments of the sextant, and the written answers should be given on the ruled paper in the same manner as the answers to the questions on Exn. 7, and the *supplementary viva voce* test applied as usual. Every Candidate should have a practical knowledge of what is known as the first three adjustments, and be able to read correctly *off* the arc, a supposed index error to be given by the Examiner as additive, as well as reading *on* the arc in the usual way.

Minor corrections.

104. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn. 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate they will not be considered complete.

Examination to commence with that for Second Mate.

105. In every case the Examination, whether for Only Mate, First Mate, or Master, is to commence with the problems for Second Mate.

Problems required as tests.

106. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

107. The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

Time allowed for working problems

108. *Candidates for Second Mates' Certificates of Competency* must complete the whole of their Examination in Navigation in *eight hours*, including the time allowed for writing the definitions (Exn. 4*a*), the paper on the adjustment of the sextant, and the correction of *all* errors and oversights; but

* See Appendix M.

the nautical problems on Forms "Exn. 4" and "Exn. 5" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

109. *Candidates for Only and First Mates' Certificates* must complete the whole of their examination in Navigation in *twelve and-a-half hours*,* including the time allowed for the papers on the sextant; the chart; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the nautical problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

110. *Candidates for Certificates as Masters,' Ordinary*, must complete the whole of their examination in Navigation in *fifteen hours;* including the time allowed for the papers on the sextant; the chart; compass deviation; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6," must be completed within *six hours*, and without the Candidates leaving the premises during that period.

111. *Candidates after finishing the problems required of the respective grades* on the first day of examination should proceed, until the end of that day, with such subjects as the definitions, sextant, chart, and Question 19 of Form "Exn. 7."

112. *The Sumner Problem* (*Exn. 6a*) must on no account be given out to any of the grades on the first day of the examination, but should be the commencement of the Candidate's work on the second day, and on completion of this problem the Candidates for Masters' Certificates should proceed with the problems on paper "Exn. 7."

113. *Candidates for Foreign-going Steam-ship Certificates of Competency* will be allowed the same amount of time to perform their navigation, &c., as hereinbefore laid down for the respective grades for the Ordinary Foreign-going Certificates.

114. *Deviation of the Compass.*—A period not exceeding eleven hours will be allowed to Candidates for the completion of the whole of the examination in the Syllabus, including the correction of all errors and oversights in both the problems and writings.

Additional time allowed in special cases.

115. Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed, the Candidate will be declared to have failed, unless the Port Officer or the Examiner see fit to lengthen the period in any special case If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lenthening the period, together with the time allowed, must be reported to the Government by the Examiners, in the column for "remarks" on the Form Exn 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *viva voce* part of the examination.

116. It is anticipated that but few of the Candidates for Certificates of Competency for any of the foregoing grades will require the whole of the time herein allowed for completing their Examination in Navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear, and legible manner, and to the entire satisfaction of the Examiners.

Degree of Precision required in the Solution of the Problems.

117. In order to prevent any misapprehension as to the degree of precision required by the Regulations in working out the various problems in the Examinations for Masters' and Mates' Certificates, the attention of Examiners and Candidates is particularly directed to the following Instructions:—

(*a.*) Candidates are expected to work out their answers to all problems within or not to exceed a margin of *one mile of position* from a correct result (*e.g.*, in problems where the answer required is a latitude, longitude, or distance), excepting in finding the

* A Candidate other than Second Mate who may not previously have passed an examination may be allowed the time occupied in writing his definitions on Exn. 4*a*, in addition to the above.

ship's position by "Sumner's" method, where a margin of 2½ miles will be allowed.

(*b.*) In such problems as the "Amplitude" and "Alt-Azimuth," where the bearings, deviations, &c, only are required, a margin of 2′, or 3′, from a correct result will be sufficiently accurate

(*c.*) In no problem is the Candidate for an "ordinary" Certificate required by the Regulations to correct for *second differences* in taking out the quantities from the Nautical Almanac.

(*d.*) In solving the "Time Azimuth" problem, an answer not exceeding half a degree from the exact result will be sufficiently near. But in all cases the actual latitude, declination, and time used, together with the exact bearing (from the North or South) as given in the tables, must be clearly shown by the Candidate on his papers.

(*e.*) In interpolating for the correct deviation to be applied in solving the Chart question, Papers "Exn. 9 C." and "Exn. 9 D," it will usually be sufficiently near if the Candidate works throughout with the nearest degree of deviation taken from the "Deviation Card," and even in cases where the deviations may vary but little, the nearest half degree used throughout will be sufficiently precise, and will at the same time prove whether the Candidate understands the method of arriving at the amount of, and applying, deviations. It is not necessary that the Candidate should waste his time in solving the course to *odd minutes* as is sometimes done.

(*f.*) In calculating the correction to apply to the Soundings, Question 5 of Paper "Exn 9 D," the Candidate is not required to work out to the exact inch, as is sometimes done. It will be sufficiently near if he brings his answer within half a foot or so of a precise result.

It must be clearly understood in reading the foregoing Instructions that it is always provided the work of the Candidate is correct in principle.

Supplementary vivâ voce *Examination on written Papers.*

118. An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e.g., Forms Exn. 4a, Exn. 7, Exn. 9a, Exn. 9c, Exn.* 32 70, *&c.*), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

119. Lest, therefore, such an impression should prevail, Candidates for Certificates of Competency should bear in mind that they are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescribed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

120. This result may be easily attained by the Examiner putting a few *viva voce* questions to the Candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him possesses) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

121. When an Examiner finds it necessary to fail a Candidate in this *supplementary viva voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e., the identical questions and the identical*

answers given, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

122. If the Candidate passes, he will receive the Form Exn. 16, upon which the Government, will issue the Certificate to the candidate, whose testimonials, &c., will be returned at the same time. Form Exn 16 Completion of examination

Special Notice to Candidates.

123. The attention of Candidates is specially called to the following Regulations :—

124. Candidates are required to appear at the examination room punctually at the time appointed.

125. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re-examination for a period of three months.

126. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him. He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

127. In the event of any Candidate being discovered referring to any book or memoranda, copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination or copying any part of the problems for the purpose of taking out of the Examination rooms, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

128. No Candidate will be allowed to work out his problems on a slate or on waste paper.

129. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

130. Candidates will find it more convenient both here and at sea, to correct the declination and other elements from the Nautical Almanac by the "hourly differences." which have been given in that work in order to facilitate such calculations ; they will thereby render themselves independent of any proportional or logarithmic table for such purpose.

131. The corrections by inspection from tables given in some of the works on Navigation will not be allowed (*see* Tables IX, XI and XXI in Norie's Epitome, &c.) ; every correction must appear on the papers of the Candidates.

132. Any candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his Certificate for such period as the Government may direct

133. For rules as to amount of time allowed to perform the work, *see* page 36.

Masters' and Mates' Voluntary Examinations in Steam.

134. These examinations are limited to Masters and First or Only Mates who are possessed of or entitled to Certificates of Competency, and are provided for the purpose of giving them an opportunity of undergoing a voluntary examination as to their practical knowledge of the use and working of the steam engine. They are conducted under the superintendence of the Port Officer at such times as they may appoint for the purpose ; and the Examiners are selected by the Government from the Engineer-Surveyors appointed under the Indian Steam Ships Act, 1884. *Voluntary Examinations in Steam.*

135. Any Master or Mate desiring to be examined in Steam must deliver to the Port Officer a statement in writing to that effect, upon the Form of Application (Exn. 2), and the applicant's Certificate of Competency must be delivered to the Port Officer along with his statement. If he is about to pass an examination for a Certificate of Competency at the same time, the applications should be sent in together. Application, how to be made. Exn. 2.

136. A fee of Rs. 12 must be paid by the applicant for the examination *in Steam*, and the Port Officer will thereupon inform him of the time and place at which he is to attend to Fee to be paid. Conduct of examination, &c.

be examined, and the examination will then and there proceed in the same manner as the other examinations. If the applicant fails, and has given in his Certificate, it will be at once returned to him.

Record of Certificate. Exn. 14.

137. If the applicant passes, the Report (Exn. 14.) and the Certificate of Competency with the Form (Exn. 2) will be sent to the Government; the words "*Passed in Steam,*" with the date and place of examination, will then be entered on the Certificate and its counterpart, and the Certificate will be sent to the Port Officer to be delivered to the applicant in the usual manner.

Failure.

138. If the applicant fails he may not present himself for re examination until the expiration of three months from the date of failure.

Extent of examination.

139. The examination is for the most part *vivâvoce*, and extends to a general knowledge of the practical use and working of the steam engine, and of the various valves, fittings, and pieces of machinery connected with it. Intricate theoritical questions on calculations of horse power or areas of cylinders and valves, or any of the more difficult questions which appertain to steam engines and boilers, will not be asked. The examination will in fact be confined to what a Master of a steam-vessel may be called upon to perform in the case of the death, incapacity, or delinquency of the engineer.

140. Examiners are to be careful in their examinations to satisfy themselves that applicants really do know the names and uses of the various parts of engines and boilers, and their connecting pipes, valves, cocks, &c. Practical knowledge, as distinguished from theories, abstruse calculations, and book learning is to be the test of the applicant's fitness to have his Certificate indorsed.

Where examination to be conducted

141. The Examiner should arrange to conduct part of the examination in the engine-room of a Steam-ship, unless from circumstances he finds it impossible to do so; and if an oppportunity offer the applicant should be permitted, under the guidance of the Examiner, to start and stop the engine of some vessel which may have her steam up.

142. The Examiner, in sending in his report of examinations of Masters and Mates in steam, should state where the examination has been held.

Examination in elementary questions.

143. Candidates will be required to give written answers to sixteen out of twenty questions taken from a book of Elementary Questions pulished by the Government.* These questions will be altered from time to time without notice. The twenty questions are not to be difficult, theoretical, or book questions, but are to be such as any man of ordinary capacity ought to answer who has any "*practical knowledge of the use and working of the steam-engine.*"

Answers to be sent to the Board of Trade.

144. These questions, with the Candidate's answers, should be sent to the Government, with the reports, after each examination

145. These answers will also assist in enabling the Government to decide any question that may hereafter arise in cases where it is alleged that applicants have been improperly passed, or improperly rejected.

Candidates referring to books, &c., to be put down as failed.

146. The Examiners will be careful that if any Candidate refers to any book or paper or memorandum, or obtains information from another Candidate during the examination, he will be treated as having failed, will forfeit his fee, and will not be allowed to be re-examined for a period of three months.

In cases of failure Examiner to report questions that decided it.

147. The Examiners will report in the case of failure, the nature of the question or questions that decided the failure, or the point in the management of the engine in which the Candidate was deficient.

Service on board Steam-Ship unnecessary.

148. There is nothing in the Regulations requiring that applicants for the voluntary examination shall have served on board Steam-Ships; all that is required is that they shall have a "practical knowledge." Examiners will, of course, not fail to appreciate the fact, when passing applicants, that practical knowledge is best gained in the engine-room; and the examination of an Officer who does not produce official evidence of service in Steam Ships, and of experience of engines, must necessarily be more searching than in the case of one who produces evidence of such service and experience.

See Appendix, Q.

APPENDIX A.

N.B.—*The Candidate is to write a short definition against so many of the following terms as may be marked with a cross by the Examiner. The Examiner will not mark less than* 10. *The writing should be clear, and the spelling should not be disregarded.*

1. The Equator.
2. The Poles.
3. A Meridian.
4. The Ecliptic.
5. The Tropics.
6. Latitude.
7. Parallels of Latitude.
8. Longitude.
9. The Visible Horizon.
10. The Sensible Horizon.
11. The Rational Horizon.
12. Artificial Horizon and its use.
13. True Course of a Ship.
14. Magnetic Course.
15. Compass Course.
16. Variation of the Compass.
17. Deviation of the Compass.
18. The Error of the Compass.
19. Lee Way.
20. Meridian Altitude of a Celestial Object.
21. Azimuth.
22. Amplitude.
23. Declination.
24. Polar Distance.
25. Right Ascension.
26. Dip or Depression of the Horizon.
27. Refraction.
28. Parallax.
29. Semi-diameter.
30. Augmentation of Moon's Semi-diameter.
31. Observed Altitude.
32. Apparent Altitude.
33. True Altitude.
34. Zenith Distance.
35. Vertical Circles.
36. Prime Vertical.
37. Civil Time.
38. Astronomical Time.
39. Sidereal Time.
40. Mean Time.
41. Apparent Time.
42. Equation of Time.
43. Hour Angle of a Celestial Object.
44. Complement of an Arc or Angle.
45. Supplement of ditto.

APPENDIX B.

Adjustments of the Sextant.

The Applicant will answer in writing, on paper which will be given him by the Examiner. all tne following questions, numbering his answers with the numbers corresponding to the questions :—

Question.

1. What is the first adjustment of the sextant ?
2. How do you make that adjustment ?
3. What is the second adjustment ?
4. Describe how you make that adjustment ?
5. What is the third adjustment ?
6. How would you make the third adjustment ?
7. In the absence of a screw how would you proceed ?
8. How would you find the index error by the horizon ?
9. How is it to be applied ?
10. Place the index at error of minutes to be added, clamp it, and leave it.

(Note.—The Examiner will see that it is correct).

11. The Examiner will then place the zero of the vernier on the arc, not near any of the marked divisions, and the Candidate will read it.

Note.—In all cases the applicants will name or otherwise point out the screws used in the various adjustments.

(*The above completes the Examination of Second Mates.*)

Candidates for Only Mates', First Mates', and Masters' Certificates will be required to give, in writing, replies to the following questions, *in addition* to those required of Candidates for Second Mates' Certificates as above.

1. How do you find the index error by the Sun ?
2. The readings being { } What is the Index Error, and how do you apply it ?
3. What proof have you that those measurements or angles have been taken with tolerable accuracy ?

APPENDIX C.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency.

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee* of 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book*. The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose *(always taking care first to show the Ensign and the Code Pennant at the Gaff)*,* questioning the Candidates as to the distinguishing Forms of the respective Hoists (*See Plate annexed*), which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I.

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships*.

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not in the Vocabulary of the Code.

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal,) the three symbols used for Distant Signalling, viz. a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

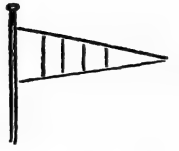
The International Code is used on board Her Majesty's Ships and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

Note.—The International Code of Signals, with the Code List, is prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswood & Co., 54, Gracechurch Street, London, and the principal Booksellers at the various ports.

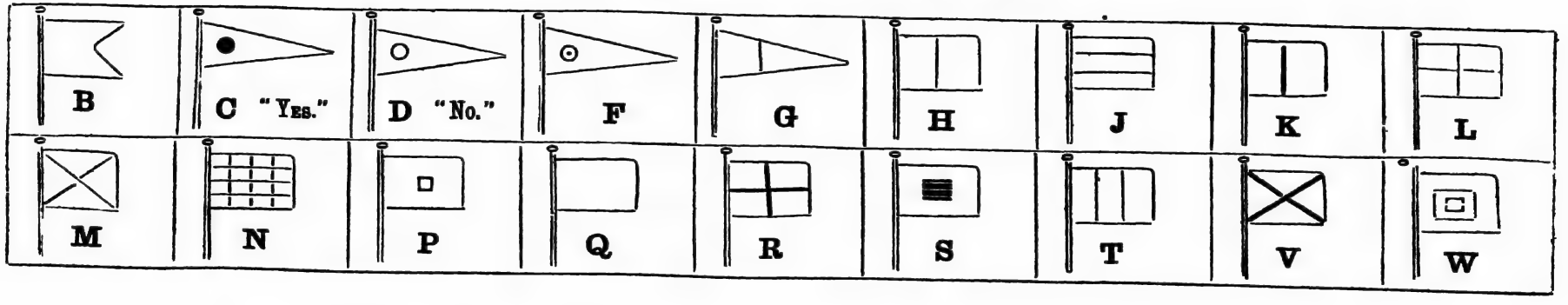
The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner, price 12*s*.

* The object of this is, of course, to distinguish the Signals from those of another Code.

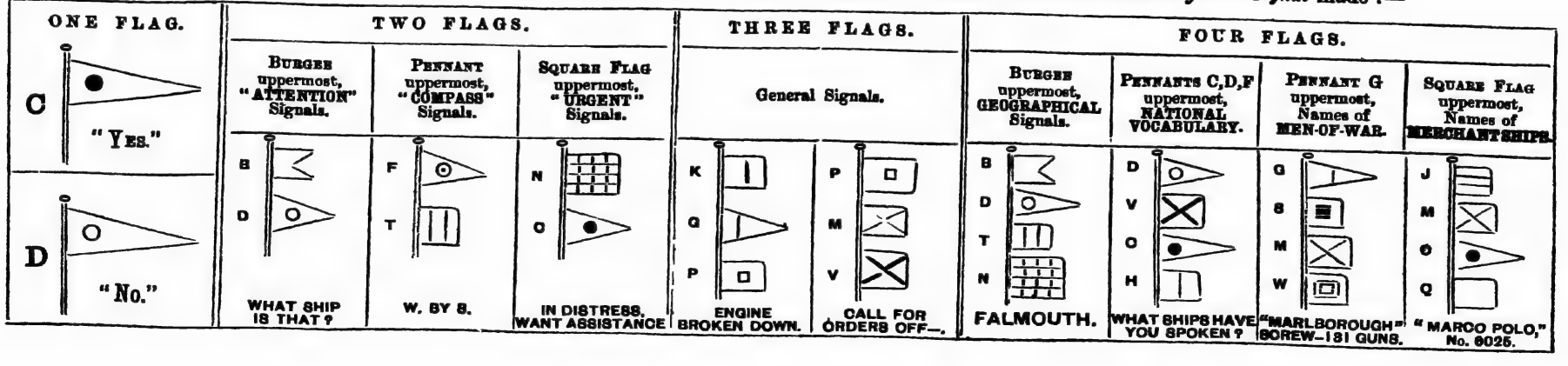
FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

"CODE SIGNAL" AND  "ANSWERING PENNANT."

N.B.—When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—



APPENDIX D.

Regulations respecting Lights and Fog Signals and Steering and Sailing Rules Issued by the Board of Trade.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of Examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

Thomas Gray,
Assistant Secretary.

Board of Trade,
Marine Department.

Heads of Examination in Regulations respecting Lights and Fog Signals and in the Steering and Sailing Rules.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor?

The same as for sailing vessels.

3. Where is the anchor light to be exhibited?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted?

It may be exhibited at any height where it can best be seen not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them.

9. Of what colour are these lights, and how are they to be placed on board the ship?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh; and over how many points of the compass, and in what directions, and how far, are they required to show?

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass; so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively;

and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night ?

The same.

12. Are the side-lights required to be fitted with screens ; and if so, of what length, and how ?

Yes, on the inboard side ; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam-ships when under steam at night ?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship ?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show ?

Over 20 points, viz., from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens ; and if so, of what length ?

The green and red lights are to be fitted with screens on the inboard side, extending at least three feet forward from the light, as in the case of sailing vessels.

17. Over how many points of the compass, in what directions, and how far, are the coloured side-lights of steamers required to show ?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, *i.e.*, from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only ?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases ?

Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use ; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty ?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty ?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net register required to carry when under way and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights ; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast-head light, similar to those carried by other steam-ships; or

(*b*) They must carry on or in front of the foremast-head, and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry?

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast-head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance not less than three miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28. If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signals as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart: the highest and lowest of these lights shall be red and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same

position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast-head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by bellows or other mechanical means, and also with an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam-ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 13 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard.

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.:—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing, or it may be a steam trawler end on, or within 2 points of being end on, to me.

49. If you see a green, or a red, light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance, fog, &c., or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing traveller engaged in trawling (1) under one arrangement of lights heading so that her side-lights or obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail.

53. How do you know?

Because there is no white mast-head light.

54. If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and a red ball on it, and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B. Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56. If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W.N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.-E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case; and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the position indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light, or a red light to a green light, the ships carrying the lights are crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to starboard. If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70. A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When the by rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75. Is there any general direction in the steering and sailing rules; and if so, what is it?

Yes, it is this: that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———)?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default

by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply ?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of there gulations, who is to be deemed in fault for the collision ?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels ?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers ?

Yes · unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only ?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*) of Article 10, which apply to only British fishing vessels.

83. Do you know where the present regulations are to be found ?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision ?

Yes.

85. What is the penalty for default ?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance ?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship ?

It is.

88. Why ?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence ?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

Regulations for preventing collisions at sea. Order in Council of 11th August 1884.

Preliminary.

Art. 1. In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship ; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

Rules concerning Lights.

Art. 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass ; so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side ; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the

horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the starboard side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the port side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the port side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a*.) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of, but not lower than, her foremast-head, three black balls or shapes, each two feet in diameter.

(*b*.) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart: the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c*.) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way, shall carry them.

(*d*.) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art. 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but

shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art. 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre:—

(*a*) All fishing vessels and fishing boats of 20 tons net registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this Article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the

* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*c*) A steam-ship and a sailing ship, when not under way shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This Article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art. 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art. 23. In obeying and construing these rules due regard shall be had to all dangers of navigation; and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art. 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation.

Art. 25. Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art. 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute.
2. The International Code signal of distress indicated by N C.
3. The distant signal, consisting of a square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute.
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c).
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft

the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885.—Sailing Trawlers of any Tonnage.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December, 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night with a clear atmosphere for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

Aids to Memory in four verses, by Thomas Gray.

1. *Two Steam-ships meeting.*

When both side-lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN TO GREEN—or, RED TO RED—
Perfect safety—Go ahead!

3. *Two Steam-ships crossing.*

Note.—This is the position of greatest danger: there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear;
To act as judgment says is proper:—
To port—or Starboard—Back,—or, Stop her!

But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do,
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out;
In danger, with no room to turn,
Ease her, stop her, go astern.

14th October 1867.

APPENDIX E.

Distress and Pilot Signals.

The following sections, together with the schedules referred to therein, of the "Merchant Shipping Acts Amendment Act, 1873," relate to Signals of Distress and signals for Pilots. (*See also* "*Regulations for preventing Collisions at sea.*" *Article* 27.) M. S. Act, 1873.

18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress. Signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots.

19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this Act.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals.

20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act, or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.

Signals of Distress.

In the day-time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the day-time:—

1. A gun fired at intervals of about a minute;
2. The International Code signal of distress indicated by N C;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.

Signals to be made by Ships wanting a Pilot.

In the day-time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day-time, viz.—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX F.

Examination in Chart.

For all Grades where the Chart is used.

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart* whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemisphere.]

* The terms "true" and "magnetic" are used for the sake of brevity and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" point of the compass respectively.

1. Using deviation [card] [curve*] No. , find the course to steer by compass from to ; also the distance.

Answer. – Compass course °

Distance °

Variation °

Deviation °

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude °

Longitude °

3. With the ship's head as above, a [point] [light-house] bore by compass , and after continuing on the same course miles it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude °

Longitude °

Distance °

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature °

Date °

Chart used °

Additional for Masters.

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course °

Distance °

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand, nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

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* A Candidate for a Master's Certificate is expected to use either a card of deviations or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him.

APPENDIX G.

Deviation of the Compass.

N. B.—*The Examiner will not mark less than* 12 *of the following questions, which must be correctly answered by the candidate, and the Examiner's attention is specially called to the importance of Questions* 7, 8, 9, 10, *and* 19, *which should be marked in all cases.*

1. What do you mean by Deviation of the Compass?
2. How do you determine the deviation (*a*) when in port, and (*b*) when at sea?
3. Having determined the deviation with the ship's head on the various points of the Compass, how do you know when it is easterly and when westerly?
4. Why is it necessary, in order to ascertain the deviations, to bring the ship's head in more than one direction?
5. For accuracy, what is the least number of points to which the ship's head should be brought?
6. How would you find the deviation when sailing along a well known coast?
7. In the following table give the correct magnetic bearing of the distant object, and thence the deviation:—

Ship's head by Standard Compass	Bearing of distant object by Standard Compass.	Deviation required.	Ship's head by Standard Compass	Bearing of distant object by Standard Compass.	Deviation required.
North N.-E. East S.-E.			South S.-W. West N.-W.		

8. With the deviation as above, give the courses you would steer by the Standard Compass to make the following courses, correct magnetic [ ].
9. Supposing you have steered the following courses by the Standard Compass, find the correct magnetic courses made from the above deviation table [ ].
10. You have taken the following bearings of two distant objects by your Standard Compass as above; with the ship's head at , find the bearings, correct magnetic [ ].
11. Name some suitable objects by which you could readily obtain the deviation of the Compass when sailing along the coasts of the English Channel
12. Do you expect the deviation to change; if so, state under what circumstances?
13. How often is it advisable to test the accuracy of your table of deviations?
14. State briefly what you have chiefly to guard against in selecting a position for the Compass.
15. The Compasses of iron ships are more or less affected by what is termed the heeling error; on what courses does this error vanish, and on what courses is it the greatest?
16. State to which side of the ship, in the majority of cases, is the North point of the Compass drawn in the Northern Hemisphere; and what effect has it on the assumed position of the ship when she is steering on Northerly, and also on Southerly courses?
17. The effect being as you state, on what courses would you keep away, and on what courses would you keep closer to the wind, in order to make good a given Compass course?
18. Does the same rule hold good in both hemispheres with regard to the heeling error?
19. Your Steering Compass having a large error, how would you proceed to correct that Compass by compensating magnets and soft iron, in order to reduce the error within manageable limits?

APPENDIX H.

Syllabus of Examination in the Laws of the Deviation of the Compasses of an Iron Ship, and in the Means of compensating or correcting it.

Candidates for the voluntary examination in Compass Deviation, and also for Extra Masters' Certificates, will be examined in the whole of this syllabus, and will be required to answer all

the questions correctly, and to the entire satisfaction of the Examiner.

1. Describe an artificial magnet, and how a steel bar or needle is usually magnetized.

2. [*For the sake of simplicity it is desirable to adopt the nomenclature of the Astronomer Royal, and call that pole of the compass needle that points to the magnetic north the red, and the other the blue pole.*] What effect has the pole of one magnet of either name on the pole of the same name of another magnet, and what would be the consequence of the pole of one magnet of either name being brought near enough to affect the pole of contrary name, if in these cases both magnets were freely suspended ?

3. By applying this law to all magnets, natural as well as artificial, show what would be the result on a magnetic bar or needle, freely suspended, but by weight or by the nature of its mounting constrained to preserve a horizontal position ; and what result, if so mounted, but free to move in every direction, the earth being regarded as a natural magnet ?

4. Which is the red magnetic pole of the earth, and which the blue ?

5. What is the cause of the variation of the compass ?

6. What is meant by the deviation of the compass ?

7. Describe the sub-permanent magnetism of an iron ship, and state when and how it is acquired, and which is the sub-permanent red, and which is the blue pole, and why it is called sub-permanent magnetism.

8. What is meant by " the composition of forces" and " the parallelogram of forces," and show how the knowledge of these is valuable in ascertaining and compensating the sub-permanent magnetism of an iron ship ?

9. Describe the co-efficients B and C, plus (+), and minus (—), and why they are said to produce semi-circular deviations.

10. On what points by compass bearing of the ship's head does + B give westerly deviation, and on what does it give easterly ; and also on what point does — B give westerly, and on what points easterly ?

11. On what points does + C give westerly, and on what points easterly ; also on what points does — C give westerly, and on what points easterly deviation ?

12. How would you compensate the co-efficient C ?

13. How would you compensate the co-efficient B ?

14. If the value either of co-efficient B or C be given, also the magnetic direction of the ship's head while she was being built, how by the traverse tables would you determine the approximate value of the other co-efficient C or B ; and if the value of both these co-efficients be given, how would you determine approximately the direction, by compass, of the ship's head whilst being built ?

15. What is meant by transient induced magnetism ?

16. Under what circumstances does induced magnetism give semi-circular deviation ?

17. How would you compensate — B resulting from induced magnetism, and why for this purpose would you adopt a different mode of compensation to that employed in correcting — B produced by sub-permanent magnetism ?

18. Describe quadrantal deviation, and state what co-efficients represent it ; also on what points of the ship's head, by compass, each of these co-efficients gives the greatest amount of deviation.

19. On what points of the compass will each of these co-efficients, D and E + and —, give easterly, and on what points westerly deviation ?

20. Generally + D gives the greatest amount of *quadrantal* deviation : how should it be compensated ?

21. If D be compensated in the manner you have described, will it remain so in every latitude ? If so, state the reason why.

22. What conditions of the iron of a ship will produce + D and what — D ?

23. Describe the nature of the deviation resulting from + A and —A, and describe the error in the construction of the compass that frequently produces them.

24. Under what circumstances does the character of A and E so change as to render it desirable that these co-efficients should be disregarded or modified ?

25. The value of A, B, C, D, and E being given, or B, C, and D only, find the deviation on any required point of the compass, or construct a table of deviation, if required.

26. Describe how you would determine the deviation by means of a distant object, by reciprocal bearings, or by the figures on the dock walls.

27. If it be required to determine the deviation of two or more compasses, it is most convenient to bring the ship's head, *correct* magnetic, on as many points as may be necessary. To determine the co-efficients B, C, and D, the bearing of the ship's head by each compass is required. How would you for this purpose employ a Graphic Method?

28 State your rule for determining whether deviation is easterly or westerly.

29. Describe the use of the "dumb card," or an azimuth card without a needle, in compensating a compass.

30. If you determine the deviation by an azimuth or an amplitude of a heavenly body, it is then combined with variation,* which together is sometimes called the *correction* for the compass. State when the deviation is the difference between the variation and the *correction*, and when the sum; and when it is of the same name as that of the *correction*, and when of the contrary name.

31. In observing azimuths of heavenly bodies, the best method is by "time azimuths," since these can be observed without an altitude when the ship is in port, or the horizon cannot be defined from any cause. Given the sun's declination, the hour of the day, and the latitude to find the true bearing of the sun.†

32. By night, if it be desirable to observe the *correction* of the compass. Given the day of the year, and time at ship, also the latitude of the place to determine what† star will be in good position for this purpose.

33. If your correcting magnets are so mounted that their positions can be altered, describe the process by which, on open sea, you can place the ship's head correct magnetic N. (or S.), and correct magnetic E. (or W.), and can make the correction perfect.

34. Given the name of a star, the time, the place of ship, the variation of the compass, and the bearing of the star by compass. Determine the deviation, and name it east or west.

35. If an ordinary standard compass placed higher than the iron top sides be compensated whilst the ship is upright, what coefficient will be effected by heeling?

36. When generally will this co-efficient be plus, and when minus?

37. State the exceptions to this general rule.

38. Does the heeling error arise from the altered position of the sub-permanent poles of the ship, or from a change in the induced magnetism?

39. To what extent is the heeling error altered by a change in the magnetic latitude of the ship?

40. If a ship is beating to windward; when she tacks, under what circumstances will the heeling error retain the same name, and under what circumstances will it take the contrary name?

41. If a ship is placed on the opposite tack by the change of wind, the ship's course being the same by compass, will the heeling error change its name?

42. Under what circumstances will the heeling error, if disregarded, take the ship to windward, or when to leeward?

43. Can the heeling error be compensated? If so, state the means to be employed.

44. Can the compensation of the heeling error be depended on in every latitude? If not, state the reason.

45. Given the heel, the direction of the ship's head by compass, and the heeling error observed, to find the approximate heeling error, with a greater or less given heel, and with the ship's head on some other named point of the compass, the ship's magnetic latitude being in both cases the same.

46. Describe any instrument to show the ship's heel (generally called a clinometer), and state how and where it should be fixed.

47. Should the clinometer be observed when the ship is swung to determine the deviation when the ship is upright? If so, state the reason why.

APPENDIX I.

Particulars of Examination in Sumner's Method by Projection.

m Candidates are required to compute their longitude by chronometer worked with two assumed latitudes.

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* The magnetic variation is best determined by a chart of the curves of equal magnetic variation.

† The process of finding time azimuths by the ordinary formulæ of spherical trigonometry is tedious, and since on board an iron ship these observations should be often repeated, the candidate will be allowed to use any table or graphic or linear method that will solve the problem within a half of a degree, the altitude of the heavenly body not being given.

They are to mark off on the chart the two positions ascertained by the first altitude, and are then to connect them with a straight line, termed the *line of position*, or the line of equal altitude, which will show the bearing of any land it may intersect.

They will then be required to correct the first *line of position* for the ship's change of station, in the interval between the two observations, to project the *line of position* corresponding to the second observation on the chart, showing by its intersection with the first *line of position*, as corrected for change of station, the position of the ship at the time of the second observation.

The longitudes corresponding to the two latitudes by the second observation are no longer furnished by the Examiners. The candidates are consequently required to work out the whole of the problem for themselves (in place of the explanation recently required), and must be prepared to find the sun's true bearing by projection at the time of taking either the first or second observation; and when necessary to produce the *lines of positions* on the chart in order to make them cut one another should the position of the ship happen to be outside the parallels of the two assumed latitudes given in the question. Outline charts, extending from 46° to 49° and from 49° to 52° of latitude, respectively, are furnished by the Board of Trade to the different examiners for this purpose.

APPENDIX K.

The Candidate must answer in writing, on paper supplied to him by the Examiner, the following questions, numbering the answer to correspond with the questions.

Question—

Questions relating to cyclones or revolving storms common in tropical seas.

1. The direction of the wind in a cyclone being*_____ state the probable bearing of its centre from the ship in the*_____ Hemisphere.
2. And suppose that the wind during the passage of the same cyclone were found to change towards the*_____ _____, what would be the ship's position with reference to the line of progression of the centre of the cyclone, and what action would you take?
3. Under what conditions would the change in the direction of the wind in the cyclone be the reverse of the above?
4. What are the usual indications of a ship being on the line of progression of the centre of a cyclone?
5. What are the usual indications that a ship is (*a*) approaching the centre of a cyclone; (*b*) receding from it?
6. Describe the track usually taken by cyclones in the †_____, and state the seasons of the year in which they most frequently occur in that region.

APPENDIX L.

Instructions to Examiners.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follows:—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

* These spaces to be filled in by the Examiners, and frequently varied.

† The Examiners to fill in whether North Atlantic, Bay of Bengal, China Seas, Indian Ocean, &c., &c.

(*d*) Cards, five of each as follow :—

1. White.
2. Black.
3. Red.
4 Pink.*
5 Green.
6 Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (*Cards.*)

In conducting the examination by daylight, the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the daylight test.
2 If the candidate hesitates in any of his answers, so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3 Having done that, they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

Examination by artificial Light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn, and at least 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour ; and if so, what colour ?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star * is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c ; or to name card No 7 as red, green, or yellow ; or glass No 2 as green, blue, or yellow ; or glass No. 5 as red, pink, salmon, &c. ; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight ; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

APPENDIX M.

Instructions to Examiners.

Compass Adjustment.

It is of the utmost importance that masters of ships should thoroughly understand the tentative method of Compass Adjust-

ment as generally practised in merchant ships, and Examiners are therefore directed to fully satisfy themselves that all Candidates for Masters' Certificates have this particular knowledge. It should be tested in connexion with the Form of Examination, "Exn. 7," or it may be tested by Captain Beall's "Deviascope" at those ports which have been supplied with this instrument. Where the "Deviascope" is used it will not be necessary for the Candidates to give the written answers and sketches illustrative of the Question 19 of Form Examination 7.

A concise statement of the present method of tentative Compass Adjustment is forwarded for the use of Examiners. The Government wish them, however, distinctly to understand that the Government are not in any way advocating the correction of that part of co-efficient B which arises from vertical induction in soft iron by a permanent magnet instead of by a soft iron bar. The Government have no authority to interfere with the methods in use amongst Compass adjusters for the adjustment of Compasses in iron ships, but instruct the Examiners to satisfy themselves that masters are acquainted with the ordinary method as at present practised.

The examination by the "Deviascope" is at present only experimental, and no Candidate should be reported as having "failed" who does not pass the examination in it, provided he has answered satisfactorily the Question 19, "Exn. 7."

The "Deviascope" is sent only to three ports at present, and its extended use will depend upon experience at those ports.

The Tentative Method of Compass Adjustment as generally practised by Compass Adjusters in Ships of the Mercantile Marine.

Before describing the practice it will be as well to briefly state the co-efficients used to express the different magnetic forces:—

Co-efficient	A	represents	a constant quantity.
„	B	„	semi-circular deviation due to fore and aft magnetic forces.
„	C	„	semi-circular deviation due to transverse magnetic forces.
„	D	„	quadrantal deviation due to horizontal induction in soft iron.
„	E	„	quadrantal deviation due to horizontal induction in soft iron unsymmetrically distributed.

Signs and Effects of Co-efficients A, B, C, D, and E.

Co-efficient A represents a constant deviation of the same nature and amount, on all points of the compass; + A signifying easterly, and — A, westerly deviation.

Co-efficient + B represents an attraction towards the ship's head, and causes easterly deviations with ship's head in the eastern semi-circle of the Compass, and westerly deviations in the western semi-circle, attaining a maximum value on the east and west points, decreasing to zero on north and south points, by Compass.

Co-efficient — B represents an attraction towards the ship's stern, and causes easterly deviations with ship's head in the western semi-circle, and westerly deviations with the ship's head in the eastern semi-circle, with a maximum value on the east and west points, decreasing to zero on the north and south points, by Compass.

Co-efficient + C represents an attraction towards the starboard side of the ship, and causes easterly deviations with ship's head in the northern semi-circle, and westerly deviations in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient — C represents an attraction towards the port side of the ship, and causes westerly deviations with ship's head in the northern semi-circle, and easterly in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient + D gives easterly deviations with ship's head between N. and E. and S. and W., and westerly deviations between S. and E. and N. and W.

Co-efficient — D gives results exactly the reverse to + D.

Note.—Both + D and — D have a maximum value on the four quadrantal points, and become zero on the cardinal points by Compass.

Co-efficient + E gives easterly deviations with ship's head between N.E. and N.W. and S.E. and S. W. and westerly deviations between N.E. and S.E. and N.W. and S.W.

Co-efficient — E gives results exactly the reverse to + E.

Note.—Both + E and — E have a maximum value on the cardinal points, and become zero on the four quadrantal points, but are usually very small in amount in Compasses placed in the middle line of the ship.

Heeling Error.—The heeling error arises partly from vertical induction in transverse iron, and iron vertical to the ship's deck, and partly from the vertical component of the sub-permanent magnetism of the ship. In the Northern Hemisphere in the majority of cases the N. point of the Compass needle is drawn to windard or the high side of the ship, with, as a rule, a maximum heeling error on N. and S. points, and zero on E. and W. points by Compass. If the Compass is not properly placed in the ship, there may be a sensible heeling deviation on E. and W. courses.

Tentative Corrections.

To correct co-efficient C.—With ship's head north or south, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly athwart ship, either on the deck or on any convenient platform, with its centre on the fore and aft line passing through the centre of the Compass card, placing its red or marked end to starboard if the N. point of the needle deviates to the starboard side, or to port if it deviates to the port side of the ship, moving the magnet to or from the Compass until it points correctly.

Note.—The deviation represented by co-efficient C varies inversely as the earth's horizontal force, providing the iron is symmetrically arranged on each side of the Compass.

To correct co-efficient B.—With ship's head east or west, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly parallel to the fore and aft midship line of the ship, either on the deck or on any convenient platform, with its centre on the athwart ship line passing through the centre of the Compass, the red or marked end of the magnet being directed aft if the end point of the Compass needle deviates towards the stern, or forward if it deviates towards the bow, moving the magnet to or from the Compass until it points correctly.

Note.—The co-efficient B consists of two parts: one is due to the permanent magnetism of the ship, which varies inversely as the earth's horizontal force; the other to vertical induction in soft iron, which varies as the tangent of the dip. As ships in the merchant service are rarely built with a view of providing a satisfactory position for the standard Compasses, it is very difficult in many ships to find a position for it where it will not be affected by vertical iron. It follows, therefore, that if this deviation be compensated, as is customary, by a fore and aft permanent magnet instead of by a vertical soft iron bar, the poles of the magnet may in some cases require to be reversed in high southern latitudes.

To correct co-efficient + D.—With ship's head on one of the quadrantal points, magnetic, the + D is generally corrected by boxes of small chain, cylinders of soft iron, or soft iron globes placed athwart ships on the same level, and at equal distances, on the port and starboard sides of the Compass, with the centre of their mass on a level with the Compass needle, move them to or from the Compass till the needle points correctly.

To correct co-efficient—D.—Co-efficient—D, which is of very rare occurrence, is corrected by placing the above correctors on the fore and aft sides of the compass.

Note.—When once the co-efficient D is properly corrected by soft iron it is correct for all magnetic latitudes, provided the distribution of the iron in the ship is not materially changed, and provided the magnetism of the soft iron has not been affected by the Compass needles. With short needles having small magnetic power, such for instance as Sir Wm. Thomson's, there will probably be no change; but when the needles are long and powerful, one-half the original D may be expected to return when approaching the magnetic equator. *See* Admiralty Manual, 1882, page 96, as follows:—"When "a compass with long and powerful needless is employed, "soft iron correctors placed very near it become mag- "netized by induction according to the power of the

" needles, and the resulting correction will not remain " strictly perfect in all latitudes."

To correct Heeling Error.—The heeling error is corrected for any given magnetic latitude by placing a vertical magnet exactly under the centre of the Compass card, with its N. or red pole uppermost if the heeling error is to windward or to the high side of ship, or its S. or blue end uppermost if to leeward or to the low side of ship, moving the magnet to or from the Compass until the heeling error is corrected.

Note.—The heeling error, due to the permanent par of the magnetism, varies inversely as the earth's horizontal force, and consequently is greatest in high latitudes, diminishes as the ship approaches the magnetic equator, and increases again, still retaining the same name, as the ship recedes from the magnetic equator in the Southern Hemisphere. The heeling error, due to transverse and vertical soft iron, decreases as the ship approaches the magnetic equator, where it is zero, and is of a contrary name in the Southern Hemisphere. It is probable that the poles of the vertical magnet may require to be reversed in high southern latitudes.

A divided scale should be marked or fitted outside the tube or some other convenient place, so as to show the proper position for the correcting magnet as found in any given magnetic latitude, and the same recorded as a guide for approximately placing the magnet in position on any subsequent voyage in the same locality, and especially on the return of the ship to the United Kingdom.

Candidates should understand that the object of tentative adjustment is to bring the deviations within manageable limits, and also to equalise the directive force of the needle so far as is practicable on all courses; but no system of adjustment whatever is sufficiently reliable in character to absolve the navigator from the necessity of using every precaution, and especially of ascertaining the deviation on every available opportunity by observations of the sun by day and the other heavenly bodies by night.

APPENDIX N.

(From Memorandum on Examination of Engineers.)

EXAMINATION OF A MASTER OR MATE IN STEAM

The regulations under which these examinations are conducted are printed at pages 41 to 43 of the regulations for examinations of masters and mates. (Exn. 1.)

A candidate for this examination is required to have a thorough grasp of the construction of the steam engine and boiler, to enable him, in the first place, to understand the nature and importance of any defect which may be reported to him by the engineer, and so that he may work in harmony with the engineer in affording time and facilities for disconnexions, inspections, adjustments, and repairs.

To have a looking-on knowledge of what the principal repairs are about engines and boilers and pipes, and how these repairs are accomplished.

To be able to form an independent opinion as to a breakdown and the consequent propriety or impropriety of proceeding under steam with temporarily repaired or defective machinery.

To understand how to estimate approximately the reduction of fuel required for reduced speed, and consequently to sanction such reduction of speed as may seem to him to be warranted by the report of the engineer, and to satisfy himself before leaving port that there is sufficient coal for the voyage.

To have an intelligent grasp of the general run of pipes and connexions in the engine room, the marking of cocks, the opening and closing of cocks and valves, how mistakes of importance may be made in the confusion of an accident, and how best to guard against such mistakes.

To be capable of being left in charge of the feeding of a set of boilers, to understand the working of the water-gauge, and to be able to guard against being misled by false indications of the gauge glass.

To understand about blowing down and surfacing, the reasons for doing so, and the danger which may result from the neglect of these under certain circumstances. A master or mate presenting himself for examination in steam must be understood to have made up for his want of practical experience by reading up

about the steam engine. He ought, therefore, to show that he has given his mind to intelligently understanding the *rationale* of the action of the steam engine. Under this head, he should, therefore, be able to state approximately the quantity of heat required in the formation of steam, the remarkable relation of "latent" heat to "sensible" heat, using these popular names, how much steam can be raised by the combustion of one pound of coal, what horse-power measure is, what indicated horse-power is, the action of the slide-valve, the course of the steam through the engine, the advantage of working expansively, and how the expansive action is shown by the indicator diagram.

The candidate has to answer in writing 16 out of 20 questions selected from the book of Elementary Questions * Selections for this examination are given on the alphabetic sheet for "Steam." Generally, these answers are given by candidates as learned by rote from a book; the candidate should therefore be asked such *vivâ voce* questions as will necessitate his giving his answers in different words, so as to discover whether he has the root of the matter in him.

The principal part of the *vivâ voce* is the examination on board a steamer, preferably one with which he is unacquainted. He is told to look about and try to find out the run of the machinery without the assistance of any one; the Examiner to be in the engine-room to see that this independent examination is properly carried out. When the candidate reports that he thinks he knows the whole arrangement of the machinery, the Examiner will then question him on the uses of the parts, get him to point out the different cylinders, pumps, valves, condenser, &c. He must show that he understands the run of the pipes in the bilges, not necessarily that he has gone over every one of them, but he ought to be directed to trace, at least, one important range of pipes, and to thoroughly satisfy the Examiner that he could be safely trusted to manipulate the valves or cocks in connexion therewith. It will not often be practicable for the candidate to be asked to actually work engines under steam, but he must satisfy the Examiner that he knows how to do so, and that he is aware what precautions have to be taken in regard to water in the cylinder, &c. It is most important that a candidate should show that, in the event of an accident depriving him of the assistance of engineers, he knows what to do to safely take his vessel to an anchorage, or to stop the engines and proceed under sail alone.

The examination of a mate in steam is the same as that of a master. The knowledge is not with reference to the mate's position. A mate may be examined, but such examination implies that the mate will one day be a master, when the possession of the knowledge will be an advantage to him in the discharge of his duties as master.

APPENDIX O.

The following is a reprint of

INSTRUCTIONS

TO

EXAMINERS OF MASTERS AND MATES.

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1. The Examiners already understand that they are to be very careful (in examining all applicants for Certificates of Competency) to satisfy themselves that the applicants understand the Rule of the Road at Sea, and should decline to pass every applicant who does not understand it.

2. As a serious misapprehension has, however, arisen in a recent case in which Sound Signals were being made by a steamer under way in thick weather, contrary to the express wording of Articles 12*a* and 19 of the Regulations, it is more than ever incumbent on Examiners not to pass any applicant unless the Examiner is satisfied that the applicant understands that the Signals named in Article 19 are purely optional, and are only allowed to be made in cases in which the weather is so clear that the ship making them has the other vessel in sight.

3. Any Master using these *optional* Sound Signals, even when the other vessel is in sight, does so in every case on his own

* Printed at end of Engineers' Regulations, Exn. 1*a*.

responsibility; but if he uses them when the other vessel is *not* in sight, he commits a very serious act of disobedience to the Regulations, and must abide the consequences of his illegal act.

4. Applicants must be made to understand that the compulsory Sound Signal which *must* be made by a steamer under way in a fog is a prolonged blast under Article 12*a*, and no other Sound Signal.

5. In examining an applicant on the application of Articles 12 and 13, the Examiner should, by answers to questions, ascertain that the applicant understands that it is his duty to go at a moderate speed in fog, while, as regards Article 24, the Examiner should impress on the applicant that an "ordinary precaution" to be observed in the navigation of a steam-ship in a fog is to get the way off his own vessel immediately he hears the Sound Signal of another steamer, and then he should go ahead very slowly, blowing the "prolonged blast" at intervals, and feeling his way until all danger of collision is passed.

APPENDIX P.

FORMS used in connection with the EXAMINATION and CERTIFICATES of MASTERS AND MATES.

Name of Form.	Initial Letters and Numbers
Regulations relating to the Examinations of Masters and Mates.	Exn. 1
Masters' and Mates' Form of Application for Examination.	Exn. 2
Form of Application for Examination (Colours) ...	Exn 2*a*.
Examination Paper, to be used in the examination of Second Mates.	Exn. 4
Ditto, to be used by all candidates when appearing for examination for the first time only.	Exn. 4*a*.
Ditto, Second Mates	Exn. 5
Ditto, Only and First Mates	Exn 6
Ditto, ditto ditto	Exn. 6*a*.
Ditto, Masters, Ordinary	Exn. 7
Ditto, for adjustments of the Sextant ...	Exn. 9*a*.
Ditto, Examination in Chart (for Mates)...	Exn. 9*c*.
Ditto, (for Masters)	Exn. 9*d*.
Examiners' Report of Masters' and Mates' Examination	Exn. 14
Examiners' Authority for delivery of Certificate to successful candidate.	Exn. 16
Examiners' Certificate (Colours)	Exn. 16*d*.
Ditto authority for return of Fee to unsuccessful candidate (Colours).	Exn. 17*a*.
Ditto Report on Colours tests	Exn. 17*b*.
Application for renewed Certificate	Exn. 23
Deviation cards	Exn. 24
Napier's Diagram	Exn. 25
Examination paper on Cyclones on revolving storms ...	Exn. 32

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

MASTER.

To_____

Whereas it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of MASTER in the Merchant Service, I do hereby, in pursuance of Act I of 1859, grant you this Certificate of Competency.

By order of the Government of Bengal,

*this*_____*day of*_____18____.

Registered at the Office of the Port Officer of Calcutta.

Under-Secy. to the Govt. of Bengal.

BENGAL

No. of Certificate

Address of Owner — — — — — ——— — — — —

Date and Place of Birth ——— ——— — —

Signature ———

This Certificate is given upon an ORDINARY EXAMINATION passed at ——— *on the* ———

day of ———18——.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the — — — ——*day of* ——— ——18——.

— ——— ——— ———

— ——— — ———

Government of Bengal

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

as

FIRST MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST MATE in the Merchant Service, I do hereby, in pursuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18____.

Under-Secy. to the Govt of Bengal,

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

Address of Owner _____

Date and Place of Birth _____

Signature _____

This Certificate is given upon an ORDINARY EXAMINATION passed at _____ *on the* _____ *day of* _____ 18__.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the _____ *day of* _____ 18__.

_____

_____

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

ONLY MATE.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of ONLY MATE in the Merchant Service, I do hereby, in persuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal.

*this*_____*day of*_____18____.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate

Address of Owner———————————————————

Date and Place of Birth———————————————————

Signature———————————————————

This Certificate is given upon an ORDINARY EXAMINATION passed at———————*on the*———————

day of———————18——.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the———————*day of*———————18——.

———————————————————

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act*, 1869.

Colonial Certificate of Competency

AS

SECOND MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND MATE in the Merchant Service, I do hereby, in pursuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18——.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

*Address of owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____ *on the*_____ *day of*_____ 18 .

Any MASTER or MATE who fails to deliver up a certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18 .

NOTIFICATION.

No. 26 Marine, dated Calcutta, the 31st January 1890.

UNDER the powers conferred upon him by section 10 of Act I of 1859, and with the sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules for the examination of persons desirous of obtaining local certificates of competency as Masters and Mates in the Mercantile Marine. These rules supersede those contained in the Notification of the General (Marine) Department of this Government, dated the 28th August 1877, and published in the *Calcutta Gazette* of the 29th idem.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta, not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government; as, if this be not done, delay may be occasioned.

Testimonials of character, conduct and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form Exn. 2 as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners and of British seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to Age.

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their Certificates shall be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

Verification of Services by the Port Officer.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the articles of agreement were signed by the applicant, and to end at the date when he was discharged as shown in the articles of agreement. The certificates of discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

9. Services which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served cannot be counted. For instance, a man will state his service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of Employment by the Master to the effect that he served as Mate, when, on reference to the articles, it appears that he has actually been rated as Boatswain: the service in such a case will not be regarded as having been in the capacity of Mate.

Service as an Apprentice.

10 Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and that the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound to the effect that he has performed his service faithfully for the whole time agreed upon

Service as 2nd, 3rd or 4th Mate to qualify for Master.

12. Service as Second, Third, or Fourth Mate may be accepted as equivalent to service as First or Only Mate to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second, Third, or Fourth Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. It will be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations.

Service on board a Training Ship.

13. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself creditably, and passed a good examination in seamanship so far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

14. No period of service on board a training ship will be allowed to count for more than one year's sea service.

Service in capacities other than as Apprentices or Seaman.

15. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the applicants have served. Failing satisfactory evidence, the applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth water.

16. Service performed on rivers, no matter of what size, or in smooth water or partially smooth water limits, cannot be accepted.

Partial loss of sight.

17. A person who has lost the sight of one eye cannot be permitted to be examined for a Certificate of Competency. If he already holds a Certificate, he cannot be examined for a Certificate of a higher grade.

Service in Light ships and Engine-room.

18. Service in Light ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

Service as Hooghly Master Pilot.

19. Service as a First Class Pilot will be accepted as qualifying for examination for a Master's Certificate for Home Trade Ships, notwithstanding that he may not have served in the capacity of Mate, but only provided that his *Sea Services* are sufficient. For the purpose of this rule, a Hooghly Master Pilot will be held to be a First Class Pilot.

Service as Pilot's Apprentice.

20. Half the amount of service performed as an Apprentice in a Pilot Ship propelled by sails may count as actual Sea Service to qualify for examination for a Certificate of Competency.

Service in Tug Boats.

21. Service performed in Tug Boats employed in Sandheads Service or outside Port limits may be accepted as Sea Service for qualifying for a Mate's Certificate for Home Trade Ships. Service on Hooghly River survey vessels may be accepted on the same conditions. Service in the Hooghly Pilot vessels at the Sandheads is Sea Service.

Desertion and gross misconduct.

22. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty

of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequent service and good conduct at sea, unless the Government, after having investigated the matter, should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

23. If after a Candidate has passed his Examination it is discovered on further investigation, *e g*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of a further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted on certain conditions.

24 If in such a case the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

25 In such a case, when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

26. The Local Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

27. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

28. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

29. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

30. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

31. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

32. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

33. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the Colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

34. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn. 2ª.

35. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

* *See* Appendix O.

36. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

37. Should he ultimately fail to pass the Examination in Navigation and Seamanship, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

38. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a Home Trade Ship.

40. All Candidates for Certificates of Competency must first be examined in Colours.*

41 A MATE must be not less than 19 years of age, and have served four years at sea.

No candidate will be allowed to be examined unless he has served two years at sea within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

42. In Navigation, &c.—He must write a legible hand, and understand the first five rules of arithmetic, both simple and compound. He must be able to take a bearing by compass, and be conversant with the use of Mercator's chart, and be able to find, on either a "true" or "magnetic" chart,† the course to steer, and the distance from one given position to another; to find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of the ship from the object at the time of taking the second bearing.

43. He must also pass an examination in the International Code of Signals.‡

44. In Seamanship, &c.—He must possess a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog and sound signals.§ He must be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals;‖ also the use and management of the rocket apparatus in the event of his vessel being stranded. He must be able to mark and use the lead and log lines, to moor and unmoor a vessel, and to manage a ship's boat in heavy weather, &c., &c. He must also understand the construction, use, and action of the bulkhead sluices, the engine-room telegraph, &c., and to answer any other questions of a like nature appertaining to the duties of the Mate of a Home Trade Vessel which the Examiners may think proper to put to him.

45. A MASTER must be not less than 20 years of age, and have served five years at sea, of which one year must have been as First or Only Mate in the Home or Foreign Trade, during which service he must have been in possession of a Mate's Certificate for Home Trade Ships or of a First or Only Mate's Certificate for Foreign-going Ships. *Vide also para.* 19.

No candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

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* *See* Appendix F.

† *See* Appendix D. The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them, showing the "true" or "magnetic" point of the compass respectively.

‡ *See* Appendix A.

§ *See* Appendix B.

‖ *See* Appendix C.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

46. In Navigation, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master will be required to find on a chart the course to steer by compass in order to counteract the effect of a given current, and to find the distance the ship will make good towards a given point in a certain time, and to *work out practically* the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart,* &c. He will also be required to understand the use of the quadrant, to be able to observe with it, to read *off* and *on* the arc, and to find the index error by the horizon. He will also be required to find the latitude by a meridian altitude of the sun, and to give written answers (*vide supplementary vivâ voce test, page* 40) to certain practical questions on the subject of the deviation of the compass †

47. In Seamanship, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master must understand how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, &c. How to get a cast of the lead in heavy weather, &c. He will be examined as to his resources for the preservation of the crew and passengers in the event of wreck, and the steps to be taken if his vessel is disabled and drifting towards a lee shore, and will be required to answer any other questions appertaining to the management of Home Trade Vessels which the Examiner may think necessary to put to him.

Failure.

Re-examination in case of failure

48 In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship*, he will not be re-examined *until after a lapse* of six months. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government should they see fit.

49. The Examiners in making out their Report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also insert this information under Division H in Form Exn. 2.

50. If he fails three times in *Navigation* he will not be re-examined until after a lapse of three months from the date of the *last failure*.

Certificate of a lower grade.

51. If a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade

52. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

53. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

Fees.

54. Candidates for examination, in making their application on Form Exn 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as

* *See* Appendix D.
† *See* Appendix E.

the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

55. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months. Fees to be paid by applicants for examination.

56. If a Candidate fail in his examination, *no part of the fee he has paid will be returned to him.* Fees to be paid by applicants for examinations. 133.

57. The fees are as follow:—

FOR "HOME TRADE SHIPS."

	Rs.
Mate	6
Master	12
For the renewal of any certificate ...	5

General Instructions to Examiners and Candidates.

58. All instruments necessary for use in the examinations are supplied by the Government. Instruments used in examinations.

59. Before commencing the examination, the tables or desks must be cleared of all scraps of paper or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document, or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present. Prohibited books and papers.

60 No instructors will be allowed on the premises.

61. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a candidate has occasion to visit the retiring room, he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book kept for the purpose the exact times of his leaving and returning to the examination room. When only a few candidates are under examination, two persons will not be allowed to leave the room at the same time. Candidates not to leave premises during examination.

62. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed. Position of Candidates at examination

63. If any blotting paper is allowed, it should be black; and when the first examination paper is issued, each Candidate should be furnished with a piece, which must be returned to the Examiner upon the completion of the last paper. Blotting paper.

64. The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed. How examination papers should be issued.

65. When from the large number of the candidates it may be found impossible to look over the work on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but In certain cases problems may be corrected on morning following examination day.

in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Vivâ voce examination.

66. In the *vivâ voce* examination a reasonable time should be allowed for the Candidate to give his answers No assistance should be given or leading question put.

Minor corrections.

67. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate, they will not be considered complete.

Examination to commence with that for Second Mate.

68. In every case the examination, whether for Only Mate, First Mate, Master, is to commence with the problems for Second Mate.

Problems required as tests.

69. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

70 The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

71. The rules as to the amount of time allowed are as follow:—

72 *Candidates for Home Trade Mate's Certificates* must complete the whole of their arithmetical and chart papers within *eight hours*, and Candidates for Home Trade Masters' Certificates within *ten hours*.

Additional time allowed in special cases.

73 Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed the Candidate will be declared to have failed, unless the Examiner see fit to lengthen the period in any special case. If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lengthening the period, together with the time allowed, must be reported to the Government by the Examiner, in the column for "remarks" on the Form Exn. 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *vivâ voce* part of the examination

74. It is anticipated that but few of the Candidates for Certificates of Competency will require the whole of the time herein allowed for completing their examination in navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear and legible manner, and to the entire satisfaction of the Examiners.

Supplementary vivâ voce Examination on written Papers.

75 An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e. g.*, *Forms Exn. 4a*, *Exn. 7*, *Exn. 9a*, *Exn. 9c*, *Exn. 32*, &c.), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the local Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

76. Lest, therefore, such an impression should prevail, the Government wish to point out that Candidates for Certificates of Competency are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescribed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

77. This result may be easily attained by the Examiner putting a few *viva voce* questions to the candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him posses-es) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

78. When an Examiner finds it necessary to fail a Candidate in this *supplementary viva voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e*, *the identical questions and the identical answers given*, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

79. If the Candidate passes he will receive the Form Exn. 16, upon which the Government will issue the certificate to the Candidate, whose testimonials, &c., will be returned at the same time. Form Exn. 16. Completion of examination.

Special Notice to Candidates.

80. The attention of Candidates is specially called to the following Regulations:—

81. Candidates are required to appear at the examination-room punctually at the time appointed.

82. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re-examination for a period of three months.

83. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him. He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

84. In the event of any Candidate being discovered referring to any book or memoranda, copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

85. No Candidate will be allowed to work out his problems on a slate or on waste paper.

86. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

87. Any Candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his certificate for such period as the local Government may direct.

General.

88. Certificates of competency will be made and issued in the forms hereunto annexed.

89. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

90. No application from the holder of a certificate granted by the Government of Bombay to be examined for a certificate of the same legal value shall be entertained.

APPENDIX A.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee of* 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book*. The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose (*always taking care first to show the Ensign and the Code Pennant at the Gaff*),* questioning the Candidates as to the distinguishing Forms of the respective Hoists, *(see Plate annexed)*, which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board, and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships*.

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist.

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not to the Vocabulary of the Code.

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

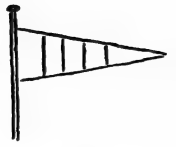
A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal) the three symbols used for Distant Signalling, viz., a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

The International Code is used on board Her Majesty's Ships, and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

Note.—The International Code of Signals, with the Code List, is prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswoode & Co.,

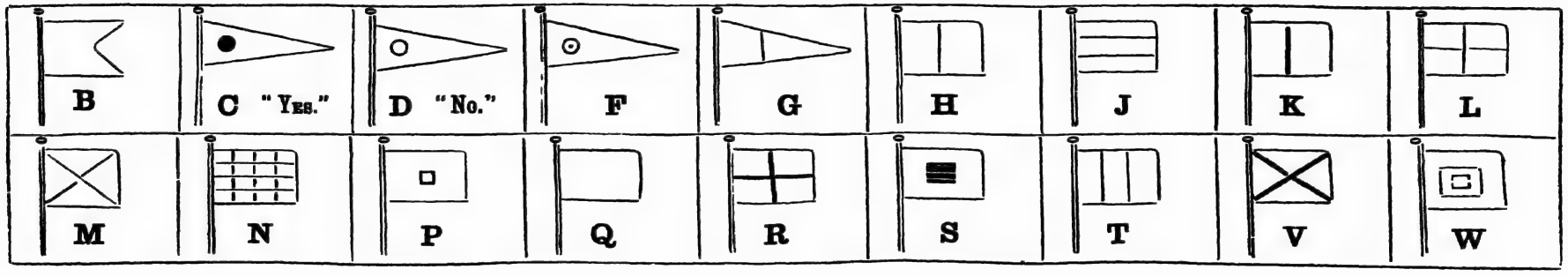
* The object of this is, of course, to distinguish the Signals from those of another Code

FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

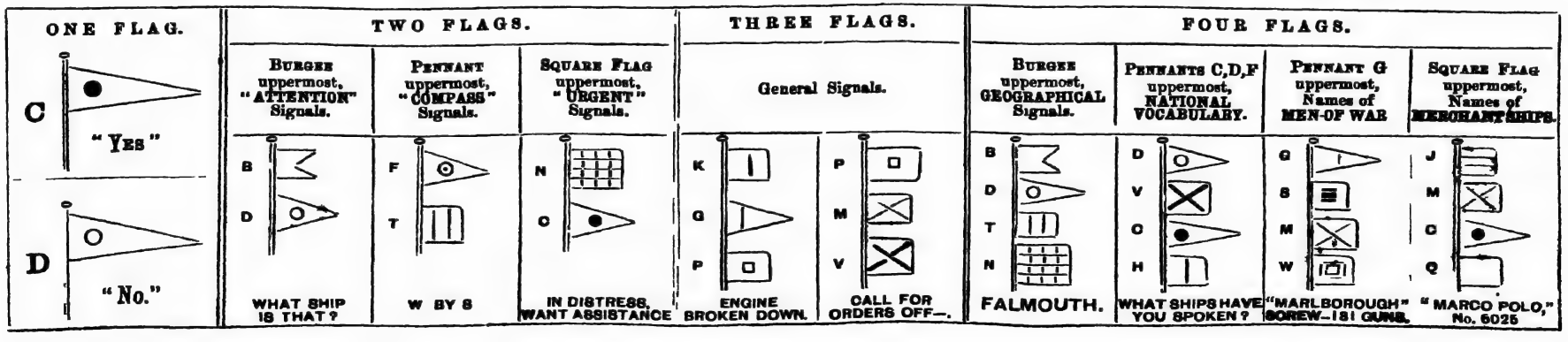


"CODE SIGNAL" AND "ANSWERING PENNANT."

N B —When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—



54, Gracechurch Street, London, and the principal Booksellers at the various ports

The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner; price 12 *s.*

APPENDIX B.

REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND STEERING AND SAILING RULES ISSUED BY THE BOARD OF TRADE.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the Examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

THOMAS GRAY,
Assistant Secretary.

Board of Trade,
Marine Department.

HEADS OF EXAMINATION IN REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND IN THE STEERING AND SAILING RULES.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor?

The same as for sailing vessels

3. Where is the anchor light to be exhibited?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted?

It may be exhibited at any height where it can best be seen, not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them.

9. Of what colour are these lights, and how are they to be placed on board the ship?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh; and over how many points of the compass, and in what directions, and how far, are they required to show.

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass;

so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night?

The same.

12. Are the side-lights required to be fitted with screens; and if so, of what length, and how?

Yes, on the inboard side; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam-ships when under steam at night?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet; and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show?

Over 20 points, viz, from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens; and if so, of what length?

The green and red lights are to be fitted with screens on the inboard side extending at least three feet forward from the light, as in the case of sailing vessels.

17 Over how many points of the compass, in what directions, and how far, are the coloured side lights of steamers required to show?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, *i.e.*, from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases?

Whenever, as in the case of small vessels during bad weather, the green and red side lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net registered required to carry when under way and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

APPENDIX TO

The Calcutta Gazette,

WEDNESDAY, FEBRUARY 12, 1890.

[Second Publication.]

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION.

No. 23 Marine, dated Calcutta, the 30th January 1890.

UNDER the powers conferred upon him by section 36 of the Indian Steam-ships Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to Engineers of sea-going steam-ships.

W. B BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates of competency granted to persons who pass requisite examinations

1. Certificates of competency will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose Examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint

Examinations continued till all the candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates who have then presented themselves and whose names appear upon the Port Officer's list on the day of examination are examined.

Application how to be made.

3. The application for examination is to be made on Form Exn. 3, which must be filled up at the Port Office. The Form Exn. 3 properly filled in, together with the Candidate's Indentures of Apprenticeship, testimonials, and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required

4. Applicants will be required to produce, in addition to the usual Forms of Discharge, satisfactory testimonials as to sobriety, experience, ability, and general good conduct for at least the 12 months immediately preceding the date of application to be examined, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an Employer; if at sea, by the Master and Chief Engineer.

5. In cases where a testimonial from the Chief Engineer, or from the Master, is for any sufficient reason not obtainable, one may be submitted from the Superintending Engineer in place of that of the Chief Engineer, and one from the Managing Owner or Secretary or Chairman of a large Company in place of that of the Master, but in every such instance the testimonial must declare that the facts stated are in accordance with the reports made by the Chief Engineer or the Master, as the case may be, or else that the facts are within the writer's personal knowledge.

6. As such testimonials may have to be verified before the Candidate can be examined, it is desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners

7. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age.

8. Should any doubt exist as to the age of a Candidate, he will be required to produce a Certificate of Birth or Baptism.

Foreigners to know English.

9. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel

Verification of services, &c., by Articles.

10. Services which cannot be verified by proper entries in the Articles of the Ships in which the Candidates have served cannot be counted.

Service on a lake or river.

11. In addition to the required workshop time, service on a lake or river, in a steamer in which the aggregate piston area of the propelling engines proper amounts to at least 2,000 (two thousand) circular inches will be accepted towards qualifying a candidate to be examined for a certificate of competency as follows:—

Two months of river or lake service, in a capacity not lower than that of Third Engineer, may be deemed equivalent to one month of sea service, provided that,

For a Second Class Certificate, not less than three months of the qualifying service must be actual sea service, and that,

For a First Class Certificate, at least six months of the qualifying service must have been at sea in a grade not below that of Third Engineer, where an engineer of a lower grade is carried. During the last 18 months of this service the candidate must have been in possession of a Second Class Engineer's Certificate of competency.

Assistant Engineer.

12. Service entered upon a ship's Articles as having been performed in the capacity of Assistant Engineer must be supported by proof of the Candidate having acted as Second, Third, or Fourth Engineer, as the case may be.

Service in home or coasting trade.

13 The service required by the Regulations to qualify a candidate for examination is to be regarded as referring to service in the Foreign Trade only. Service in the Home or Coasting Trade must amount to at least half as much again as that required by the Regulations to make up for the time spent in Port, *e g.*, for every twelve months' service under the Regulations, eighteen months' service in the Home or Coasting Trade will be required. In all cases the length of service is deemed to commence on the date of signing of the articles of agreement, and to end on the date of discharge.

Service as Engineer only accepted as qualifying service

14. Service in the engine-room (afterwards referred to) for qualifying a candidate to be examined for a Second-class Engineer's Certificate must be only in those capacities which afford opportunities of obtaining practical experience as an engineer; and service in the capacity of fireman, stoker, donkeyman, greaser, winchman, labourer, engineer's steward, or any other capacity than that of engineer taking watch on engines and boilers for propelling will not be accepted

Service as Third and Fourth Engineer

15. Service as Third and Fourth Engineer in Foreign-going steamers, where more than three or four engineers, as the case may be, are carried, their names being all entered on the Articles in their respective ratings, may be accepted equally with service as Second Engineer to qualify a Candidate for examination for a First-class Engineer's Certificate, provided he has during the whole of such service, been in possession of a Second class Engineer's Certificate (Imperial, or under Order in Council), and provided also that he was regularly in charge of a watch. In the case of Fourth Engineers, however, eighteen months of such service must be proved for every twelve months required by the Regulations.

16. Service in a capacity below that of Fourth Engineer cannot be accepted as qualifying for any class of certificate unless the testimonials of the candidate explicitly certify that during such service he has been taking regular watch in the engine-room, and that the Chief Engineer or Superintending Engineer considers him properly qualified by that experience to act as Chief Engineer of a Foreign-going steamer of 99 horse-power nominal. *In any case the applicant must prove that he has had the responsible charge of the engines or boilers on regular watch for at least twelve months of sea service, of which for not less than six months he must have been in charge of the propelling engines and rated on the articles not lower than Fourth Engineer.* Service below the grade of Fourth Engineer.

17. Having "responsible charge" will be understood to imply, in regard to the engines, that the applicant, for the time specified, was, on regular watch, the person responsible for carrying out the orders of the engine-room telegraph, and, in regard to the boilers, that he was, similarly for the period specified, the person responsible for regulating the feeds.

18. When the workshop service has been performed in a place *where steam-engines are not made*, and the class of work done is similar to that required in engine-making, the service may be accepted with an additional year in the engine-room; that is, three years' workshop service and two years in the engine-room, of which one year must have been at sea. The approval of the Government must be obtained in every such case before the authority to receive a certificate is issued by the Examiners. Workshop service.

19. When the workshop service has been performed in a place *where engines are made*, and the department in which the applicant has been principally engaged is not "*fitting*" or "*erecting*," if the nature of the service be such as is useful training for an Engineer, the Government may, on proper representation of the circumstances, see fit to accept the service as qualifying along with subsequent experience, but in every such case the applicant must prove additional engine-room service as required above. The approval of the Government must likewise be obtained.

20. If a candidate has served in the Engine Room with a Second class Certificate in the capacity of a Second Engineer in Foreign-going Steam-Ships under 100 horse-power, or in Home Trade Passenger Steam-Ships, which are not required by law to carry a certificated Second Engineer, his service may be accepted without reference to the vessel's horse-power, provided he has been on the ship's articles as Second Engineer, and produces certificates of discharge as Second Engineer, for the required period. Service as Second Engineer where certificate not required

21. The Government may see fit to allow an applicant who, in consequence of service abroad, has been unable to obtain a Second-class Certificate, to be examined for a First-class Certificate, although he has not obtained a Certificate of the lower grade, provided he is able to satisfy them as to the satisfactory character of his services. First-class certificates without second.

22. In such cases (para. 21) or in cases where the candidate is already in possession of a Certificate of Service, should he fail to pass the examination for the higher grade, but passes the examination for the lower grade, he may receive a Certificate accordingly, but no part of the fee will be returned. Unsuccessful candidates may in certain cases receive certificates for inferior grade.

23. A candidate who under the above regulation (para. 21) has been permitted to be examined for a First-class Certificate without first obtaining a Second-class Certificate of Competency, and who fails in his examination in practical knowledge, may not be re-examined for a Certificate of the higher grade until he has served 12 months as Second Engineer with a Second-class Engineer's certificate of competency as required by the Regulations. Consequence of failure in such cases.

24. If the candidate fails altogether, *i.e.*, both in the examination for the lower as well as for the higher grade of Certificate (para. 21), he may be re-examined for a *Second-class Certificate only*, subject to the usual regulations relating to failure.

If after passing examination services are found to have been insufficient.

25. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, the Certificate may be issued to him, or he may be allowed to go up for re-examination without payment of further fee, when he has performed the amount of service in which he was deficient as the Government may direct.

Certificate of lower grade may be granted on certain conditions.

26. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate may be placed to his credit.

May have to be re-examined for certificate of higher grade.

27. In such a case when the applicant has by further service made up the time in which he was found to be short, he may be required, before he can receive the higher certificate, to be re-examined in all the subjects.

Qualifications for Certificates of Competency.

Qualification of candidate for Second-class Engineer's Certificate.

28. SECOND-CLASS ENGINEER.—A candidate for a Second-class Engineer's certificate must be not less than 21 years of age;

(*a*) He must have served an apprenticeship to an Engineer for three years in England or five in India at least, and prove that during the period of his apprenticeship he has been employed on the making and repairing of engines:—Or if he has not served an apprenticeship, he must prove that for not less than three years in England or five in India he has been employed as a journeyman mechanic in some factory or workshop* on the making or repairing of engines.† In either case he must also have served one year at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade‡; or

(*b*) He must have served at least four years at sea in the Engine Room as an Engineer on regular Watch in the Foreign, Home or Coasting Trade.

(*c*) He must be able to give a description of boilers, and the methods of staying them, together with the use and management of the different valves, cocks, pipes, and connections.

(*d*) He must understand how to correct defects from accident, decay, &c., and the means of repairing such defects.

(*e*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*f*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*g*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total break-down.

(*h*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*i*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

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* No period of service in a drawing office can be allowed to count for more than six months workshop time.

† These may be either land or marine engines.

‡ *See* paragraph 13 as to service in Home or Coasting Trade.

29. FIRST-CLASS ENGINEER.—A candidate for a First-class Engineer's Certificate must be not less than 22 years of age. Qualification of candidate for First-class Engineer's certificate.

30. In addition to the qualification required for a Second-class Engineer—

(*a*) He must either possess, or be entitled to, a First-class Engineer's certificate of service; or, in the event of his not being so possessed or entitled, he must have served for one year at sea as Second Engineer with a Second-class Engineer's Certificate of Competency, or for two years at sea as Second Engineer with a Second-class Engineer's Certificate of Service: or having served one year at sea as Second Engineer with a Second-class Engineer's certificate of Service, he must show, in addition, at least six months' service as Chief Engineer in a vessel required by law to carry at least one Engineer holding a certificate. (*See also paragraph* 15 *as regards service as Third and Fourth Engineer.*)

The Examiner should therefore be satisfied that an applicant for a First-class Engineer's Certificate has not only been *in possession* of a Second-class Certificate for the periods above stated, but that he has actually *served* for such periods in the Engine Room at sea with a Second-class Certificate in the capacities referred to, and that his name has been entered in the articles of agreement accordingly. (*See also para* 21.)

(*b*) He will be required to make an intelligible hand sketch, or a working drawing of some one or more of the principal parts of a steam-engine; and to mark in, without a copy, all the necessary dimensions in figures, so that the sketch or drawing could be worked from.*

(*c*) He must also be able to take off and calculate indicator diagrams

(*d*) He must be able to calculate safety-valve pressures and the strength of the boiler shell, stays, and riveting.

(*e*) He must be able to state the general proportions borne by the principal parts of the machinery to each other, and to calculate the direct stress, the torsional stress, and the bending stress in round bars, and the direct stress and the bending stress in rectangular bars with given loads.

(*f*) He must be able to explain the method of testing and altering the setting of the slide valves, and also to sketch about what difference any alteration in the slide valve will make in the indicator diagram, and also the method of testing the fairness of shafts and of adjusting them.

(*g*) He must be conversant with surface condensation, superheating, and the working of steam expansively.

(*h*) His knowledge of arithmetic must include the mensuration of superficies and solids and the extraction of the square root, and the application of these rules to questions relating to the power, duty, and economy of engines and boilers, and to the stresses in rods, shafts, and levers of the engine.

Service in the Royal Navy.

31. Engineers and Assistant Engineers of the Royal Navy are at liberty to apply for Certificates of Service, and to be examined for Certificates of Competency in the Mercantile Marine; but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty. Engineers.

32. As regards the grades of Certificates of Competency for which Officers of the Royal Navy can be examined, the rule is—"First-class Assistant," or "Assistant Engineers" of the Royal Navy may be examined for Second-class Engineers' Certificates of "Competency"; "Engineers" of the Royal Navy for First-class Certificates of Competency. Grades.

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* *See* Appendix B.

Temporary service in the Royal Navy.

33. Temporary active service as Engineer in the Royal Navy counts in applications for Certificates of Competency in the same way and to the same extent only as in the case of the service of Mercantile Marine Engineers, that is to say, so much of the applicant's time as is spent in active service at sea, or in a ship commissioned for sea service, counts as "sea service;" and so much of the applicant's time as is spent in active service on boardship in harbour, and not commissioned for sea, counts as workshop time—*See* paragraph 28, sub-section (*a*).

Engineer Artificer

34 Service performed in the capacity of Engineer Artificer may count to qualify a Candidate for examination for a Second-class Engineer's Certificate of Competency in the Mercantile Marine. If the service has been on shore, it will count only as workshop time. If in the Engine Room at sea, the Candidate must prove that during such service he had charge of an Engine Room watch.

Fees.

Fees to be paid by applicants for examination. (Exn. 17.)

35. Candidates for examination, in making their Application on Form Exn. 3, will be required to pay the Examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

36. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

37. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

38. The fees are as follow:—

Second-class Engineer's Certificate	...	Rs.	12
First-class Engineer's Certificate	...	„	24
First-class Engineer's Certificate if candidate is already in possession of a Second-class Certificate of competency granted by the Board of Trade, or by the Government of a British possession under Section 8 of the Merchant Shipping (Colonial) Act, 1869	...	Rs.	12
Renewal of any certificate	... ...	„	5

General Rules as to Examinations.

Candidates not to take books, &c., into examination room.

39. All books necessary for the use of candidates under examination will be provided by the Government, and applicants are not permitted to take into the examination room any book, paper, document, or memoranda of any description whatever.

40. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners, but they will not be allowed to work out the problems on a slate or on waste paper. The additional sheets must be attached to, and form part of, the examination papers.

41. Candidates for First-class Certificates have to pass an examination in Rough Working Drawing, which may, at the candidates' option, be either hand sketches clearly dimensioned and complete in the necessary *views* and *sections*, or drawings to a scale Drawing boards and T squares will be provided by the Government, but the applicants will have to bring with them any drawing instruments they may require.*

* *See* Appendix B.

42. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination ; and no part of the fees he may have paid for examination will be returned to him. This penalty also applies to any breach of paragraph 34. Punishment for breaking rules.

43. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the Examiners may substitute other data or another question. Leaving examination room

44. All applicants presenting themselves for examination will be required to give written answers to ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency, and of Masters and Mates for certificates in steam." These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling. Questions from Form Exn 15*a*.

45. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

46. Examiners may add to their *vivâ voce* questions on the practical management of steam-engines and boilers any of those contained in Exn. 15*a*.

47. If at the expiration of the time allowed the candidate has worked out and answered correctly the whole of the questions set to him, and given satisfactory answers in the *vivâ voce* examination, he will be declared to have passed.

48. If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *vivâ voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiners that the applicant is competent to take charge of engines of 100 nominal horse power or upwards, he will be declared to have passed

49. In other cases he will be declared to have failed.

50. A report of the examination, and the examination papers, will be forwarded to the Port Officer on the Form (Exn 15). Exn. 15.)

51. If the candidate passes, he will receive the Form Exn. 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c., will be returned at the same time. Notification of having passed will be given to successful candidates. (Exn. 16.)

Failure.

52. If the applicant fails in practical knowledge, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service at sea as Engineer from the date of failure. If he fails in arithmetic or drawing only, he may come up again at any time.

General.

53. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed.

54. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

55. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

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* *See* Appendix A.

APPENDIX A.

Form Exn. 15a.

Elementary Questions for the First Examinations of Engineers for Certificates of Competency and of Master and Mates for certificates in steam.

TO ENGINEER EXAMINERS.

EXAMINERS will require all candidates to fill up a form, Exn. 15*b*., of which a copy is enclosed, and they will forward the same to the Port Officer for transmission to the Government along with the report of the examination.

It is intended to issue questions of a more advanced character for first-class candidates, but in the meantime the questions for both classes of Engineers and also for Masters and Mates passing a Voluntary Examination in steam will be taken from the same book of "Elementary Questions," and candidates for first-class certificates are expected to show their superiority by giving answers more complete than those of the other candidates.

The arithmetical questions for Engineers and the *viva voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences.

Masters and Mates may cancel questions A, B, and C, but they should fill up the form for questions D, E, F, and G, as evidence of their practical knowledge.

Exn. 15b.

Port	Class for which examined
Date	Candidate's name

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the engine-room at sea, and in what capacities?

D. With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *see* the book of Elementary Questions. The questions need not be written; only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS.

1.

What parts of an engine are generally made of wrought-iron?

2.

What parts of an engine are generally made of cast-iron?

3.

For what parts of an engine is steel sometimes used?

4.

What parts of an engine are generally made of brass or gun-metal?

5.

Where is "white metal" sometimes used? On account of what property possessed by it is it adopted? What objection is there to its more general use?

6.

For what parts is Muntz metal sometimes used? Is it malleable? For what properties is it valued?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other?

9.

What are the different properties of cast-iron, of wrought-iron and of steel?

10.

What is meant by the terms "breaking stress," "proof stress," "safe working stress"?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron?

12.

Tempering steel: how is it done, and in what order do the colours come?

13.

What is case-hardening?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short"?

15.

What is meant by "welding"? Which of the common metals can be welded?

16.

The expansion of metals by heat: give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot? When the material is steel, what precautionary treatment of these plates is afterwards necessary?

18.

What is double riveting? In what parts of cylindrical marine boilers is double riveting employed? In which of the shell seams is it most necessary?

19.

What is "caulking," and how are seams prepared for caulking?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans?

21.

What strain per square inch is allowed on boiler stays?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected?

24.

How are boiler tubes fixed? What are "stay tubes," and how are they secured?

25.

Where is it generally that boiler tubes leak? How is this defect raired? What are the causes of this leaking?

26.

What are the causes of cracked tube plates? Where are the cracks situated? How are they repaired?

27.

What is the difference between a "dry uptake" and a "wet uptake"? Which requires most repair? Why? Where have you seen a wet uptake?

28.

What is a superheater? What is its construction? What valves are on it? There is sometimes a gauge glass on it; what is that for?

29.

What parts of a marine tubular boiler are first injured by shortness of water?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used?

31.

Priming: to what causes is it attributed? What means are applied to prevent it? What evils may be produced by it?

32.

Funnel draught: what makes it? What checks it?

33.

Flame is sometimes seen at the top of the funnel: what causes this appearance? Is it beneficial or is it detrimental? Why so?

34.

A blast pipe: what is its construction? Where is it placed? For what is it used?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted?

36.

Blow-off cocks are sometimes fitted with a spanner guard: for what purpose is this? Describe how the guard is formed?

37.

Test cocks or water-gauge cocks: where are they placed? At what heights? Must the cocks themselves be at those heights? What provision is made for cleaning these cocks should they ever become choked? When there are no test cocks how is the height of the water ascertained?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation?

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses? There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear, and the engine still moving?

63.

What are "double boat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers?

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double-acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that, when opened, admits steam from the slide valve casing to the exhaust port; what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing? Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in when under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used? What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action? To what part of the engine is it connected? Whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed ? In that case are the feathering levers on the striking face or on the back of the float ? When the paddle shaft has an outer bearing, how is the eccentric made ?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats ? Are they all lubricated ? With what ?

103.

What is a "Disconnecting Paddle Engine" ? At what place is the disconnecting effected ? How is it accomplished ? In which of the cranks of a disconnecting engine are the crank pins fixed ?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines ? For what steamers are disconnecting paddle engines frequently employed ?

105.

What are expansion joints ? Where are they necessary ? What attention do they require ? Of what should the working surfaces be made ?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied ? How is this prevented in the construction of a steam trunion pipe for an oscillating engine ?

107.

Describe an oil cup with a syphon worsted ? How is the worsted arranged ? How is it cleaned ? How far down the tube does it extend ?

108.

Describe a thrust bearing ; which of the surfaces wears ? Why are there sometimes a number of oil tubes for one thrust bearing ?

109.

What parts of a screw shaft are generally covered with brass ? Why is this necessary ? About what thickness is the brass ?

110.

What is the stern tube or screw shaft pipe ? Why is a pipe of such a length required ? Of what is it made ? How is it fixed at each end ?

111.

What is a lignum vitæ bearing ? How is the wood fitted ? Where is such a bearing generally used ?

112.

How is a screw propeller fixed on the shaft ? What means are used to prevent its getting loose at sea ?

113.

Where are sluice valves placed ? What large sluice valve is there in almost all screw steamers ? From what position should this valve be worked ? Why so ? What attention should it receive ?

114.

With a condensing engine, what valves or cocks are on the skin of the ship in the engine-room and in the stokehole ?

115.

What are the necessary fittings of a marine boiler ?

116.

With a surface condensing engine, what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given ?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action? To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected?

121.

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller, at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion ?

134.

What is the explanation of the economy of the surface condenser ?

135.

What is the construction of a surface condenser ? Of what are its tubes made ? How are they fixed ? How are they kept tight ? What is done with a split tube ?

136.

Where do surface condensers foul ? How are they cleaned ?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied ?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation ?

139.

How can the formation of black smoke be prevented ? Describe smoke preventing apparatus ?

140.

What is meant by "circulation" in a boiler, and what are the results of defective circulation ?

141.

What means are sometimes adopted to improve the circulation in a boiler ?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler ?

143.

Describe a ship's side air-pump discharge valve ? In what respects does it sometimes differ from a common stop valve, and what attention does it require ?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated ?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks ?

146.

What is the measure of a horse power ? How is indicated horse power ascertained ?

147.

Has "nominal horse power" a fixed meaning ? What is the use of this expression ? What is generally taken as the measure of one horse-power nominal ?

148.

What is "back pressure" in a cylinder ? About how much is it in each of the cylinders in your last steamer ? Is excessive cushioning ever a trouble under certain conditions in modern engines ? Say when and why and in which cylinder this occurs ?

149.

What is meant by "speed of piston" ? About how much is the speed of piston in modern marine engines ?

150.

What is "atmospheric pressure" ? What is its average amount ? What instrument tells this amount ?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction? Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163.

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge: in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer; its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs., and (5) of strain about 150 lbs.; also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, gets short of water although the feed valve is open its proper amount; to what causes might this be due?

179.

Of what are furnace bars generally made? About what thickness are they at top? About what space is between them? Whether are the bars put further apart for Newcastle coal or for Welsh coal?

180.

Which burns faster, Newcastle coal or Welsh coal? Which is the flaming coal? Which makes most smoke?

181.

About how many tons of steam coal will be burnt per day in four furnaces each 3′ 0″ wide, and of about the usual length? On what grounds do you say so?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone? On what grounds do you say so? What percentage more coal would be required to propel the same steamer one knot faster?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work? On what grounds do you say so?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam? Which will take place earlier, and which later distinguishing between the up stroke and the down stroke?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke?

186.

A screw propeller is getting loose; it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts?

APPENDIX B.

Form Exn. 17.

Examination in Rough Working Drawing for a First-Class Engineer's Certificate of Competency.

1. The regulations in regard to the qualifications of a candidate for a first-class Engineer's Certificate of Competency specify that—

> "He must be able to make rough working drawings of the different parts of the engines and boilers."
>
> "He must be able to state the general proportions borne by the principal parts of the machinery to each other."

2. In accordance with these clauses, a candidate for a first-class certificate is required to make a rough working drawing of the parts specified on the other side of this leaf. A mechanic who has been some years in charge of marine engines and boilers ought by this time to have familiarly in his mind the general construction of at least one set of engines and boilers, say that set he was

last with. Fine drawing is not expected, and in the proportions of the parts a wide margin will be allowed; absurd dimensions will be failure in practical knowledge.

3. The drawing must, however, be practically a working drawing, giving a sufficient number of views to show the parts fully—sections, plans, or elevations, just as the candidate would require to be supplied to him if he had to make the parts to the design of another person.

4. A clear hand sketch showing the construction, completely and fully dimensioned, will be accepted if the candidate prefers this alternative.

5. A portion only of the parts specified may be accepted in place of the whole, if that portion is sufficient to show that the candidate has a good practical idea of the construction of the parts, and a fair notion of their general proportions or dimensions.

6. Candidates are hereby cautioned not to put on paper what they have not fully considered, and deliberately intend to be understood, as their statement of what they know about the construction of any part required.

7. The statements given in by a candidate may be in themselves, apparently, of little importance, but as sample material from which the state of the candidate's knowledge of engines and boilers is to be inferred, every detail which is glaringly inconsistent with a sound knowledge of the use of the part, or in which an essential consideration has evidently been overlooked, is an important element in the description which the candidate is giving of his own qualifications.

8. The candidate is advised not to begin more than he can clearly finish in the time allowed. An important object in this part of the examination is to ascertain whether the candidate can be trusted to mark all necessary dimensions upon a sketch or a drawing. The test of this is, practically, the making of the part from the sketch without having to supply additional dimensions, and without measuring the drawing. To prove this ability the candidate must fully dimension the parts shown in his sketch or drawing, notwithstanding that the parts may be correctly drawn to scale. A drawing is fully dimensioned when no part of it is left to the option of the party who is to work to the drawing.

9. To prevent misunderstanding, however, when the candidate has been led into showing more of the details than he has time fully to finish, he should name, in the statement on the other side, the particular parts which he has fully dimensioned.

10. All dimensions should have lines and darts, to indicate distinctly the points between which the dimensions are given.

11. Beware of writing cross dimensions upon centre lines, or upon longitudinal dimension lines. This is not an order but a recommendation.

12. The candidate is not expected to design anything; he has merely to sketch or draw a something with which he is expected to be already familiar.

13. Pencil in nothing after half-past 3; all the dimensions, the figures, and the darts must be inked in; employ the remaining time in examining the drawing and in inking in any figures which may have been before overlooked, and in checking the dimensions.

14. Make sure that you will have sufficient room on the drawing sheet to show all the necessary views. You can have another sheet or drawing paper if necessary. All the paper used must be forwarded with the drawing.

15 Fill in and sign the following statement.

(Specimen.)

Form Exn. 17a.

Subject for Examination in Rough Working Drawing.

(Read the foregoing general instructions.)

A common slide valve with its spindle. Show also an outline section of the ports at the cylinder face. Show the provision for connecting the slide valve to the spindle.

The candidate is requested to fill up the following, and to attach this paper to his drawing.

STATEMENT BY THE CANDIDATE.

The accompanying drawing, made by me this day, without referring to any document, and without the assistance of any person, is intended by me to be sufficient for the new construction of the parts above described to fit the places of similar parts which are to be removed. The construction is similar to what I have been with in the_____steamer_____, but the dimensions may be different.

The diameter of the cylinder is_____

The stroke of the piston is_____

The stroke of the valve is_____

The cover at top end on steam side is_____

The cover at bottom end on steam side is_____

The lead at top is intended to be_____

The lead at bottom is intended to be_____

The inside cover is +_____or____.

The thickness of the face of valve is_____

The thickness of the body of valve is_____

The greatest opening for steam will be_____

That gives an area equal to one_____

The opening for exhaust when the crank is on the top centre is_____

That gives an area equal to_____th of piston.

The length of the connecting rod is_____

The valve will cut off steam on the down stroke at_____

The valve will cut off steam on the up stroke at_____

The Candidate may omit this part if he chooses.

The parts fully dimensioned, in ink, are_____

_____

Dated at _____

this_____ day of_____18

_____ Applicant.

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

FIRST CLASS ENGINEER.

To ——————————————————

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of 1884, grant you this Certificate of Competency.*

By order of the Government of Bengal,

this —————— *day of* —————— 18——.

Under-Secy. to the Govt. of Bengal.

BENGAL.

No. of Certificate [redacted]

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____ *on the*_____ *day of*_____ 18 .

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. *This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act* 25 *and* 26 *Vic., cap.* 63, *sec.* 23, *to cancel or suspend Certificates.*

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18 .

Registered,
Port Officer of Calcutta.

Government of Bengal

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1832, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

SECOND CLASS ENGINEER.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND CLASS ENGINEER in the Merchant Service, I do hereby, in pursuance of Act VII of 1884, grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18___.

Under-Secy. to the Govt. of Bengal

BENGAL.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____*on the*_____

*day of*_____18____.

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____*day of*_____18____.

Registered,
Port Officer of Calcutta.

NOTIFICATION.

No. 24 Marine, dated Calcutta, the 30th January 1890.

UNDER the powers conferred upon him by section 36 of Act VII of 1884 (the Indian Steam-ships Act), and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engine-drivers of sea-going steam-ships having engines of under 50 nominal horse-power.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

2. The application for examination is to be made in Form Exn. 3*a*, which must be filled up at the Port Office. The Exn. 3*a* properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

3. A candidate for a certificate of competency under these rules must be not less than 22 years of age.

4. He must have served three years as principal serang or tindal in the engine-room of a sea-going steamer under a certificated Engineer.

5. He must have the testimonial shown in Appendix A filled up by the Engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

6. He must pass a *vivâ voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

7. He must, if required, be able to show his practical qualifications by one week's trial in a steamer, after fulfilling the other tests to which he will be subjected.

8. He must show a knowledge of the use of brine cocks and blowing off, of the salinometer, and of the care of the boiler in salt-water.

9. Candidates for examination, in making the application on Form Exn. 3*a*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them; but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service or are able to produce satisfactory testimonials, as the case may be.

10. The fee for examination under these rules is ten rupees, and the amount must be remitted with the application to the Port Officer. In any case in which a candidate offers money to any other officer than the Port Officer, and in any place but the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

11. If a candidate fails in his examination, *no part of the fee he has paid will be returned to him.*

12. In case of failure, candidates may be re-examined *de novo* after a lapse of six months, if the past examination showed that they might reasonably be expected to qualify.

13. Certificates of competency shall be made and issued by the Government in the form hereunto annexed.

14. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

TESTIMONIAL.

I hereby certify that has served with me in the engine-room of as principal serang or tindal for a period of , during which time he has discharged his duties to my entire satisfaction.

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a sea-going steamer having engines of under 50 nominal horse-power.

Signed

No. and description of Certificate.

Note.—Any Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applicant's eligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINE-DRIVER OF A SEA-GOING STEAM VESSEL UNDER ACT VII OF 1884.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Engine-driver on a sea-going Steam-ship having engines of under 50 nominal horse-power, I do hereby, in pursuance of Act VII of* 1884, *grant you this CERTIFICATE OF COMPETENCY as Engine-driver.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

*The*_____*day of*_____18____. *Under-Secretary to the Govt. of Bengal.*

No. of Certificate

*Bearer*_____ *son of*_____ *by caste*_____

Date and Place of Birth, showing Village, Thana and District*_____

*Residence, showing Village, Thana and District*_____

*Height*_____

*Personal description, stating particularly any permanent marks or scars*_____

*No. of Register Ticket*_____

*Signature*_____

Any Engine-driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer of Calcutta.

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Registered.

Port Officer of Calcutta.

* If not known exactly, must be stated on the best information or evidence.

NOTIFICATION.

No. 25 Marine, dated Calcutta, the 30th January 1890.

UNDER section 10 of the Indian Merchant Shipping Act, 1859, the Lieutenant-Governor is pleased, with the sanction of the Governor-General in Council, to make the following rules for the conduct of examinations for Masters and Mates of foreign-going ships and as to the qualifications to be required. These rules are in supersession of the rules issued under the notification dated the 28th of August 1877.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the port of Calcutta. The examinations will be held twice a quarter, or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government, as, if this be not done, delay may be occasioned.

Testimonials of character, conduct, and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form, Exn. 2, as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners, and of British Seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to age.

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British Vessel. In the case of natives of India, who may not be able to speak English, their Certificates will be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the Articles of Agreement were signed by the Applicant, and to end at the date when he was discharged as shown on the Articles of Agreement. The Certificates of Discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

Verification of services, &c., by Articles

9. Services, which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served, cannot be counted. For instance, a man will state his

service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of employment by the Master, to the effect that he served as Mate, when, on reference to the Articles, it appears that he has actually been rated as Boatswain; the service in such a case will not be regarded as having been in the capacity of Mate.

Promotion during Voyage

10. Whenever a man has, from any cause, been regularly promoted on a vacancy in the course of the Voyage from the rank in which he first shipped, and such promotion, with the ground on which it has been made, is properly entered in the Articles and in the Official Log Book, he will of course receive credit for his service in the higher grade for the period subsequent to his promotion.

Service in the coasting trade

11. Service in the coasting trade may be allowed to count as service, in order to qualify a Candidate for examination for a Certificate of Competency for Foreign-going Ships, it being understood, however, that service in the coasting trade must amount to half as much again as service in the foreign trade, and that service in a lower grade than that of First or Only Mate in the coasting trade will not be recognised as officer's service.

12. Three years' service as Mate in the coasting trade, together with at least nine months' service as Master, may be allowed to count as service for a Master's Certificate, provided the Candidates' entire service at sea calculated as above is sufficient, and that his services as Mate and Master in the coasting trade can be proved by the Articles, and provided he has already passed an examination *for the Foreign Trade*, unless, *under special circumstances*, the Government see fit to dispense with this latter provision.

13. Service in Pleasure Yachts under 80 tons, if performed within Home Trade limits, will not be accepted towards qualifying a Candidate for examination.

14. Service in Pleasure Yachts will not be accepted at all unless verified by satisfactory proofs, and it must be distinctly understood that accepted service is confined to *actual sea service*, service in harbour or port being inadmissible. *See also para.* 21.

Service as an Apprentice.

15. Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound, to the effect that he has performed his service faithfully for the whole time agreed upon.

Service as 3rd or 4th Mate to qualify for 1st Mate.

16. Service as Third or Fourth Mate may be accepted as equivalent to service as Second Mate to qualify a Candidate for examination for a Certificate of Competency as First Mate, provided he is able to produce a satisfactory testimonial from the Master or owner of the vessel in which the service was performed, showing that he has had charge of a watch while serving as such Third or Fourth Mate, and that during the whole of the time claimed he was in possession of a Second Mate's Certificate of Competency, valid in the United Kingdom.

Service as 3rd or 4th Mate to qualify for Master.

17. Service as Third or Fourth Mate may also be accepted on the same conditions to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. If a Candidate has had no service as First Mate he must have been six and-a-half years at sea, of which two and-a-half years must have been as Mate of a lower grade under the above-named conditions. It will also be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations.

Service on board a Training Ship.

18. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself reditably, and passed a good examination in seamanship so

far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

19. No period of service on board a training ship will be allowed to count for more than one year's sea service, nor can it be accepted as equivalent to service in square-rigged vessels.

Service in Auxiliary Screw Whaling ships.

20. Service in Auxiliary Screw Whaling Ships and other Vessels with auxiliary steam power, which use their screws only in calms or during light winds, is considered as service performed in Sailing Vessels. Such service is not to be accepted in cases where service on board Foreign-going Steam-ships is required.

Service in Trawlers, Yachts, &c.

21. Service performed in Trawlers, Yachts, &c., *alone* will not qualify a Candidate for examination for a Foreign-going Certificate. He must show that he has served, in addition thereto, 18 months in an ordinary trading vessel.

Service in capacities other than as Apprentice or Seaman.

22. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the Applicants have served Failing satisfactory evidence, the Applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth-waters.

23. Service performed on rivers, no matter of what size, or in smooth-water or partially smooth-water cannot be accepted.

Loss of sight.

24. A person who has lost the sight of one eye cannot be allowed to be examined for a Certificate of Competency. If he already holds a Certificate, he will not be allowed to be examined for a Certificate of a higher grade.

Service in Light Ships and Engine-room.

25. Service in Light Ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

26. In the case of service on board Excursion Steamers only such service as has been performed actually at sea can be accepted.

27. A First Class Pilot, with one year's Sea Service since he obtained his Pilot's Certificate, may be examined for a First Mate's Certificate for Foreign-going Ships. A Hooghly Master Pilot is for the purpose of this rule to be considerd a First Class Pilot.

Services as Pilot's Apprentice.

28. Half the amount of service performed as an Apprentice in a Pilot Vessel propelled by sails may count as actual Sea Service to qualify for examination for a Certificate of Competency.

Desertion and gross misconduct.

29. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequant service and good conduct at sea, unless the Local Government after having investigated the matter should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

30. If after a Candidate has passed his Examination it is discovered on further investigation, *e.g.*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government is satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted in certain conditions.

31. If, in such a case, the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

32. In such a case when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

33. The Government have made the following arrangements for the Examination of persons as to their ability to distinguish Colours :—*

34. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

35. Any person, including the holders of Certificate of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

36. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a Certificate to that effect.

37. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

38. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2.—Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

39. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will, in such event, be returned to him.

40. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

41. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form 2ª.

42. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

43. Should he pass this Examination the following statement will be written on the face of the higher Certificate which may be granted to him, viz.: "This officer has failed to pass the 'Examination in Colours.'"

44. Should he ultimately fail to pass the Examination in Navigation and Seamanship a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

45. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a "Foreign-going Ship."

Foreign-going Sailing Ships

46. EXAMINATION IN COLOURS.—All Candidates for Certificates of Competency must first be examined in colours.*

47. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea. He must also prove that he has served at least one year in a square-rigged sailing vessel within the last five years. *See also para.* 11. Second Mate.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years

* *See* Appendix L.

within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

48. In Navigation, &c.—He must write a legible hand, and will be required to give in writing, *vide supplementary viva voce* test, page 37, definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant, with its adjustments, and be able to observe with it, find the index error by the horizon, and *read off* and *on the arc*.† He must also pass a satisfactory examination in the International Code of Signals.‡

49. In Seamanship, &c.—He must give satisfactory answers as to the standing and running rigging of ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c.; as to the management of a ship when under canvas; of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals.§ and be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals ‖ He must be able to mark and use the lead and log lines. He must also understand the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature appertaining to the duties of the Second Mate of a ship, which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Second Mates' Certificates of Competency for Foreign-going Steam-ships.

50. An ONLY and FIRST MATE.—An Only Mate and a First Mate must be not less than nineteen years of age, and must have served five years at sea, of which in the case of a First Mate, one year must have been as Second or Only Mate. *See* also paras. 11, 16 and 27.

On and after the 1st April 1890, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediataly preceding the date of his application to be examined.

Only and First Mate

A Candidate for an Ordinary Certificate of *any* grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined

51. In Navigation —In addition to the qualifications required for a Second Mate, an Only and First Mate must be

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* *See* Appendix A.

† *See* Appendix B. ‡ *See* Appendix C. § *See* Appendix D. ‖ *See* Appendix E.

able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun, both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and be able to use and adjust the sextant,* and to find the index error by the sun; also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find, on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relative to cyclones or revolving storms §

52. In Seamanship, &c.—In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship, and to keep a clear anchor; to carry out an anchor; how to manage a ship in stormy weather; how to cast a ship on a lee shore; how to secure the masts in the event of accident to the bowsprit; and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds and the stowage of explosives. He must also know how to rig a sea anchor, and what means to apply to keep a vessel disabled or unmanageable out of the trough of the sea, and lessen her lee drift; how to get a cast of deep sea lead in heavy weather; and answer any other questions appertaining to the duties of an Only and First Mate of a ship which the Examiners may think necessary to put to him. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Only and First Mate's Certificates of Competency for Foreign-going Steam-ships.

Master

53. A MASTER must be twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a half years must have been as Second Mate of a Foreign-going Ship, during the last twelve months of which service as Second Mate he must have been in possession of a First Mate's Certificate. *Vide also paras.* 11, 12 and 17.

On and after the 1st June 1889, no Candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

A Candidate for an Ordinary Certificate of any grade, who does not already hold an Ordinary Certificate of a lower grade, must prove that he has served 12 months in a square-rigged sailing vessel within the last five years.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the Candidate is allowed to be examined.

54. In Navigation.—In addition to the qualifications required for a Second, Only, and First Mate, a Master must be able to compute the latitude from the meridian altitude of a star, &c. He must be able to find the magnetic bearing from

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* *See* Appendix H

† *See* Appendix I

‡ *See* Appendix F The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them showing the "true" or "magnetic" points of the compass respectively

§ *See* Appendix K.

equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram, which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron.* He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time and to work out practically the correction to apply to soundings taken at a given time and place to compare with the depth marked on the chart †

55. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct jury rudders for both wooden and iron vessels, and also rafts. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends, or in any danger or difficulty; or if disabled or unmanageable and on a lee shore; heaving a keel out, &c. He must explain the mode of procedure when placing ship in dry dock, directing repairs, and if putting in to port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties, and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter party, bills of-lading, Lloyd's agent, and as to the nature of bottomry, also bills-of-exchange, surveys, averages, &c., and must answer any other questions of a like nature appertaining to the management of a ship which the Examiners may consider it necessary to touch upon. He will also be required to give satisfactory answers as to his knowledge of the additional subjects (applying more particularly to steam-ships) which are specified in the Rules of Examination for Masters' Certificates of Competency for Foreign going Steam-ships.

Fore and Aft rigged ships

Certificates for Fore and Aft rigged Vessels.

56. Certificates for the grades of Master, First Mate, Only Mate, and Second Mate, on which the words "for Fore and Aft rigg d vessels only" will be written, will be issued to Candidates who have not complied with the regulation which requires them to have served at least one year in square-rigged *sailing* vessels, or who prove in course of examination that they are ignorant of the management of square-rigged ships.

57. A certificate "for Fore and Aft rigged vessels only" will not entitle the possessor to act in a capacity for which a certificate is required in square-rigged vessels, amongst which are classed full-rigged ships, barques, brig, barquentines, brigantines, and steam-ships carrying square sails.

58. A Candidate possessing a certificate "for Fore and Aft rigged vessels only," and desiring to obtain an ordinary certificate of the same grade, must prove that he has served at sea at least one year in a square-rigged *sailing* vessel, and will be re-examined both in navigation and seamanship.

Foreign-going Steam-Ships

Qualifications for Certificates of Competency for Foreign-going Steam-ships only.

59. Certificates of Competency will be issued, subject to the examinations hereinafter described, for officers who have served in steam-ships, and who, owing to absence of service in square-rigged sailing ships, cannot under the

* *See* Appendices G and M.
† *See* Appendix F.

existing regulations obtain Certificates of Competency to act in the capacity of Masters or Mates of square-rigged ships.

60. These certificates will entitle the holders to go to sea as Masters and Mates of foreign-going steam-ships, but will not entitle the holders to go to sea as Masters or Mates of foreign-going sailing ships.

61. There will be no distinction in respect of "Fore and Aft" and "Square-rigged" steam-ships.

62. EXAMINATION IN COLOURS.—All Candidates for Certificates of Competency must pass the examination in Colours.

Second Mate

63. A SECOND MATE must be not less than seventeen years of age, and must have been four years at sea. *See* also para. 11.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

64. IN NAVIGATION, &c.—He must write a legible hand, and will be required to give in writing (*vide supplementary viva voce test, page* 39) definitions of various astronomical and other terms used in navigation.* He must have a competent knowledge of the first five rules of arithmetic, and the use of logarithms. He must be able to work a day's work complete, correcting the courses for deviation, leeway, and variation. He will be required to find the latitude by meridian altitude of the sun, and the difference of longitude from a given departure by a parallel sailing; also to find the course and distance from one position to another by Mercator's method. He will be required to find the time of high water at a given port, to observe and calculate the amplitude of the sun, and to find the error of the ship's compass therefrom, and also the deviation, the variation being given. He must be able to find the daily rate of the chronometer from error observed, and to find the longitude from altitude of the sun by the usual methods. He must understand the use of the sextant with its adjustments, and be able to observe with it, find the index error by the horizon, and read *off* and *on* the arc.† He must also pass a satisfactory examination in the International Code of Signals.‡

65. IN SEAMANSHIP, &c.—He must give satisfactory answers as to the standing and running rigging of steam-ships; as to bending, unbending, setting, reefing, taking in and furling sail; as to sending masts and yards up and down, &c., &c., as to seeing everything in readiness and clear for getting under way, and as to the precautions to be then observed with regard to engines, propellers, &c.; as to the management of a steam-ship when under canvas; and of a ship's boat in heavy weather, and as to dunnaging and stowing cargo, &c. He must have a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog, and sound signals,§ and be able to describe the signals of distress and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals.‖ He must be able to mark and use the lead and log lines. He must also understand the construction, use, and action of the sluices, and of the water-ballast tanks, engine-room, telegraph, &c.; the use and management of the rocket apparatus in the event of his vessel being stranded, and other questions of a like nature, appertaining to the duties of the Second Mate of a steam-ship, which the Examiners may think necessary to put to him.

Only and First Mate.

66. AN ONLY AND FIRST MATE.—An Only Mate must be not less than nineteen years of age, and must have served five years at sea. A First Mate must be nineteen years of age, and must have served five years at sea, of which

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* *See* Appendix A. † *See* Appendix B. ‡ *See* Appendix C.
§ *See* Appendix D. ‖ *See* Appendix E.

one year must have been as Second or Only Mate of a Foreign-going Steam-ship. *See also paras.* 11, 16 *and* 27.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last three years immediately preceding the date of his application to be examined

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined

67. IN NAVIGATION.—In addition to the qualifications required for a Second Mate, an Only or First Mate must be able to find the true bearing of the sun and the error of the ship's compass from an observed azimuth of the sun both from an altitude and also from the "Time Azimuth Tables," and with the variation given compute the deviation; to find the latitude from a single altitude of the sun off the meridian, and to be able to use and adjust the sextant,* and to find the index error by the sun; and also to ascertain the true bearing of the sun, &c., and the ship's position by Sumner's Method by Projection.† He must also be conversant with the use of Mercator's Chart, and be able to find on either a "true" or "magnetic" chart,‡ the course to steer and the distance from one given position to another; and find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of ship from the object at the time of taking the second bearing. He must also understand how to keep a ship's Log Book. He will also be required to answer certain questions in writing (*and orally*) relating to cyclones or revolving storms.

68. IN SEAMANSHIP —In addition to the qualifications required for a Second Mate, a more extensive knowledge of seamanship will be required, as to shifting large spars, rigging sheers, taking lower masts in and out, how to moor and unmoor ship and to keep a clear anchor, to carry out an anchor; how to manage a steam-ship in stormy weather, and how to rig purchases for getting heavy weights, anchors, machinery, &c., in and out. He must give satisfactory answers as to the ventilation of holds, and the stowage of explosives. He must be able to describe the effects of the screw race upon the rudder; and the effect produced on the direction of the head of the ship by going [ahead] [astern] with a [right] [left] handed screw when the rudder is [ported] [starboarded]. He must also know how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, and lessen her lee drift. How to turn a steam-ship short round; how to get cast of deep sea lead in heavy weather, and other questions of a like nature appertaining to the duties of an Only and First Mate of a steam-ship, which the Examiners may think necessary to put to him.

Master

69. A MASTER—Must be not less than twenty-one years of age, and have been six years at sea, of which one year must have been as First or Only Mate in a Foreign-going Steam-ship, and one year as Second or Only Mate; or he must have been six and-a-half years at sea, of which two and-a-half years must have been as Second or Only Mate in a Foreign-going Steam-ship, during the last twelve months of which he must have been in possession of a First Mate's Certificate. *See also paras.* 11, 12 *and* 17.

On and after the 1st April 1890, no candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

70. IN NAVIGATION —In addition to the qualification required for a Second, Only, and First Mate, he must be able

* *See* Appendix B. † *See* Appendix I. ‡ *See* Appendix F.
Also page 24 foot-note ‡.

to compute the latitude from the meridian altitude of a star, he must be able to find the magnetic bearing from equidistant compass bearings of any fixed object when at sea, and compute the deviation therefrom. He must construct a deviation curve upon a "Napier's" diagram which will be furnished by the Examiner, and understand the practical application of the same, and give satisfactory written (*and oral*) answers to certain practical questions on the effect of the ship's iron upon the compasses, the method of determining the deviation, and compensating same by magnets and soft iron * He will be required to find the course to steer by compass in order to counteract the effect of a given current, and find the distance the ship will make good towards a given point in a certain time, and to work out practically the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart.†

71. In Seamanship, &c.—In addition to the qualifications required of a Second, Only, and First Mate, he must be able to construct rafts and jury rudders suitable for a screw steam-ship. He will be examined as to his resources for the preservation of the ship's crew in the event of wreck; as to the management of steam-ships in heavy weather; as to rescuing the crew of a disabled ship; as to steps to be taken when a ship is on her beam ends; or if disabled and on a lee shore. How to use steam appliances in the event of fire, and the best arrangement for towing vessels under different circumstances, placing ship in dry dock, directing repairs, and the mode of procedure if putting into port in distress with damage to cargo and ship. He must possess a sufficient knowledge of what he is required to do by law, as to entry and discharge, and the management of his crew, and as to penalties and entries to be made in the official log, and a knowledge of the measures for preventing and checking the outbreak of scurvy on board ship, and the law as to load line marks, and the entries and reports to be made respecting them. He will be questioned as to his knowledge of invoices, charter-party, bills-of-lading, Lloyd's agent, and as to the nature of bottomry; also bills-of-exchange, surveys, averages, &c., and answer any other questions of a like nature, appertaining to the management of a steam-ship, which the Examiners may consider it necessary to touch upon.

Service in Royal Navy.

Service in Royal Navy.

72. Officers of the Royal Navy are at liberty to apply for Certificates of service and to be examined for Certificates of Competency in the Mercantile Marine, but they must submit their applications in the manner directed by the Lords Commissioners of the Admiralty.

73 Officers of the Royal Navy desirous of being examined for Certificates of Competency in the Mercantile Marine will be required to prove the following service, of which twelve months must have been sea service under sail alone.

74. For Second Mate.—A Candidate must produce satisfactory evidence of four years' service at sea, or that he has attained the rank of acting Sub-Lieutenant.

75. For Only Mate.—A Candidate must prove five years' service at sea

76. For First Mate or Masters.—A Candidate must show that he has attained the rank of Sub-Lieutenant, or Navigating Sub-Lieutenant.

Voluntary Examination in the Laws of the Deviation of the Compasses of Iron Ships.

Voluntary Examination of Masters and Mates in the Syllabus.

77. Any Master or Mate who wishes to pass a *voluntary* examination in the Syllabus* of examination on the Laws of the Deviation of the Compasses of an Iron Ship, &c., can at any time be examined upon filling up the form of application, and the payment to the Port Officer of the prescribed fee. If the candidate passes the examination successfully, an endorsement to that effect will be duly made upon the Master's or Mate's Certificate held by him.

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* *See* Appendices G and M. † *See* Appendix F. ‡ *See* Appendix A.

Failure.

Re-examination in case of failure

78. In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship* he will not be re-examined *until after a lapse* of SIX MONTHS. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government, should they see fit.

79. The Examiners in making out their report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also insert this information under Division II. in Form Exn. 2.*

80. If he fails three times in *Navigation* he will not be re-examined until after a lapse of THREE MONTHS from the date of the *last failure*.

Certificate of lower grade.

81. If a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a Certificate of a lower grade, he may, if he desires it, receive a Certificate of such lower grade.

82. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

83. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

84. If a Candidate fails in his examination for an ordinary Certificate, he may, if qualified, and upon payment of another fee, &c., be examined for a Certificate of Competency for Foreign-going Steam-ships without waiting the usual time after failure.

Fees.

85. Candidates for examination, in making their application on Form Exn. 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination, s. 133

86. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months.

87. If a Candidate fail in his examination *no part of the fee will be returned to him.*

88. The fees are as follow:—

FOR "FOREIGN-GOING SAILING AND STEAM SHIPS."

	Rs.
Second Mate	12
First and Only Mate, if previously possessing an inferior certificate, either granted by the Board of Trade, or by the Government of a British Possession *under section* 8 *of the "Merchant Shipping (Colonial) Act*, 1869"	6
If not	12
Master	24
Where a Candidate is in possession of a Certificate for Fore and Aft rigged Vessels, for an Ordinary or Steam-ship Certificate of the same grade	12

* *See* Appendix H

FOR "VOLUNTARY EXAMINATION IN STEAM."

	Rs.
Mate (Only or First)	12
Master	12

FOR "VOLUNTARY EXAMINATION IN DEVIATION OF THE COMPASS."

	Rs.
Mate (Second, Only or First)	12
Master	12

GENERAL.

89. Certificates of Competency shall be made and issued by the Government in the forms hereunto annexed.

90. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate and the other shall be kept and recorded by the Port Officer of Calcutta.

90A. No application from the holder of a certificate granted by the Government of any other British Possession or by the Board of Trade to be examined for a certificate of the same legal value shall be entertained.

General Instructions to Examiners and Candidates.

Prohibited books and papers.

91. All instruments necessary for use in the examinations are supplied by the Government.

92. Before commencing the examination, the tables or desks must be cleared of all scraps of paper, or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document, or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present.

93. No instructors will be allowed on the premises.

Candidates not to leave premises during examination.

94. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a Candidate has occasion to visit the retiring room he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book, kept for the purpose, the exact time of his leaving and returning to the examination room. When only a few Candidates are under examination, two persons will not be allowed to leave the room at the same time.

Position of Candidates at examination.

95. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed.

Blotting paper.

96. If any blotting paper is allowed it should be black; and when the first examination paper is issued each Candidate should be furnished with a piece which should be returned to the Examiner upon the completion of the last paper.

How examination papers should be issued.

97. The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems. It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed.

In certain cases problems may be corrected on morning following examination day.

98. When from the large number of the Candidates, it may be found impossible to look over the work, on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Re Exn 4A

99. The paper (Exn. 4A) is only for those Candidates who present themselves for examination for the first time. It is intended not only to ensure on the part of the Candidate a knowledge of the meaning of a variety of terms of great use to the Navigator respecting which much ignorance exists at present, but at the same time to test his handwriting and spelling.

100. In using this paper, the Examiner will place a mark against the numbers of the particular questions which he selects for answers, and not less than ten questions should be selected. The Candidate will then write against the questions so marked his definition of the terms in a clear and legible hand, so as to prevent the possibility of any letter being mistaken. Attention should be paid to the spelling and writing of all grades of Candidates. The *supplementary vivâ voce* test should also be applied as usual.

Re-questions on Deviation of the Compass. (Exn 7, Appendix G)

101. In the questions on Deviation of the Compass (Exn. 7, Appendix G) the Examiner should indicate by a mark against at least twelve of the questions for answers, and those indicated must be correctly answered. The selected questions should be varied frequently, and no two Candidates should have precisely the same questions. The Candidate should be furnished with sheets of blank ruled paper which is supplied for that purpose with instructions that he is to write only on one side of the paper, and to answer each of the questions against which a mark is placed in a clear and legible hand, and to commence each answer by writing down the number of the question to which it relates in the margin left for that purpose In answering question 19, besides giving a full explanation in writing, of the *tentative* method* of compass adjustment (accompanied by the usual *supplementary vivâ voce* test), the Candidates should be required to illustrate by diagrams how the poles of the magnets are placed with regard to the compass needle for correcting the semi-circular deviation, as well as the heeling error, and also how the soft iron should be placed for correcting the quadrantal deviation, or the Candidate may be tested by "Beall's Compass Deviascope," in which case it will not be necessary for him to give the written answer and sketches.

Vivâ voce examination.

102. In the *vivâ voce* examination a reasonable time should be allowed for the Candidate to give his answers. No assistance should be given or leading question put.

Adjustment of sextant.

103. Particular attention should be paid to the adjustments of the sextant, and the written answers should be given on the ruled paper in the same manner as the answers to the questions on Exn. 7, and the *supplementary vivâ voce* test applied as usual. Every Candidate should have a practical knowledge of what is known as the first three adjustments, and be able to read correctly *off* the arc, a supposed index error to be given by the Examiner as additive, as well as reading *on* the arc in the usual way.

Minor corrections.

104. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn. 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate they will not be considered complete.

Examination to commence with that for Second Mate.

105 In every case the Examination, whether for Only Mate, First Mate, or Master, is to commence with the problems for Second Mate.

Problems required as tests.

106. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

107. The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

Time allowed for working problems.

108. *Candidates for Second Mates' Certificates of Competency* must complete the whole of their Examination in Navigation in *eight hours*, including the time allowed for writing the definitions (Exn. 4*a*), the paper on the adjustment of the sextant, and the correction of *all* errors and oversights; but

* See Appendix M.

the nautical problems on Forms "Exn. 4" and "Exn. 5" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

109. *Candidates for Only and First Mates' Certificates* must complete the whole of their examination in Navigation in *twelve and-a-half hours*,* including the time allowed for the papers on the sextant; the chart; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the nautical problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6" must be completed within *six hours*, and without the Candidates leaving the premises during that period.

110. *Candidates for Certificates as Masters,' Ordinary*, must complete the whole of their examination in Navigation in *fifteen hours;* including the time allowed for the papers on the sextant; the chart; compass deviation; cyclones or revolving storms; and for the correction of *all* errors and oversights; but the problems on Forms "Exn. 4," "Exn. 5," and "Exn. 6," must be completed within *six hours*, and without the Candidates leaving the premises during that period

111. *Candidates after finishing the problems required of the respective grades* on the first day of examination should proceed, until the end of that day, with such subjects as the definitions, sextant, chart, and Question 19 of Form "Exn. 7."

112. *The Sumner Problem* (*Exn.* 6*a*) must on no account be given out to any of the grades on the first day of the examination, but should be the commencement of the Candidate's work on the second day, and on completion of this problem the Candidates for Masters' Certificates should proceed with the problems on paper "Exn. 7."

113. *Candidates for Foreign-going Steam-ship Certificates of Competency* will be allowed the same amount of time to perform their navigation, &c., as hereinbefore laid down for the respective grades for the Ordinary Foreign-going Certificates.

114. *Deviation of the Compass.*—A period not exceeding eleven hours will be allowed to Candidates for the completion of the whole of the examination in the Syllabus, including the correction of all errors and oversights in both the problems and writings.

Additional time allowed in special cases.

115. Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed, the Candidate will be declared to have failed, unless the Port Officer or the Examiner see fit to lengthen the period in any special case If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lenthening the period, together with the time allowed, must be reported to the Government by the Examiners, in the column for "remarks" on the Form Exn. 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *viva voce* part of the examination.

116. It is anticipated that but few of the Candidates for Certificates of Competency for any of the foregoing grades will require the whole of the time herein allowed for completing their Examination in Navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear, and legible manner, and to the entire satisfaction of the Examiners.

Degree of Precision required in the Solution of the Problems.

117. In order to prevent any misapprehension as to the degree of precision required by the Regulations in working out the various problems in the Examinations for Masters' and Mates' Certificates, the attention of Examiners and Candidates is particularly directed to the following Instructions:—

(*a.*) Candidates are expected to work out their answers to all problems within or not to exceed a margin of *one mile of position* from a correct result (*e.g.*, in problems where the answer required is a latitude, longitude, or distance), excepting in finding the

* A Candidate other than Second Mate who may not previously have passed an examination may be allowed the time occupied in writing his definitions on Exn. 4*a*, in addition to the above.

ship's position by "Sumner's" method, where a margin of 2½ miles will be allowed.

(*b*) In such problems as the "Amplitude" and "Alt-Azimuth," where the bearings, deviations, &c, only are required, a margin of 2′, or 3′, from a correct result will be sufficiently accurate

(*c.*) In no problem is the Candidate for an "ordinary" Certificate required by the Regulations to correct for *second differences* in taking out the quantities from the Nautical Almanac.

(*d.*) In solving the "Time Azimuth" problem, an answer not exceeding half a degree from the exact result will be sufficiently near. But in all cases the actual latitude, declination, and time used, together with the exact bearing (from the North or South) as given in the tables, must be clearly shown by the Candidate on his papers.

(*e.*) In interpolating for the correct deviation to be applied in solving the Chart question, Papers "Exn. 9 C." and "Exn. 9 D," it will usually be sufficiently near if the Candidate works throughout with the nearest degree of deviation taken from the "Deviation Card," and even in cases where the deviations may vary but little, the nearest half degree used throughout will be sufficiently precise, and will at the same time prove whether the Candidate understands the method of arriving at the amount of, and applying, deviations. It is not necessary that the Candidate should waste his time in solving the course to *odd minutes* as is sometimes done.

(*f.*) In calculating the correction to apply to the Soundings, Question 5 of Paper "Exn. 9 D," the Candidate is not required to work out to the exact inch, as is sometimes done. It will be sufficiently near if he brings his answer within half a foot or so of a precise result.

It must be clearly understood in reading the foregoing Instructions that it is always provided the work of the Candidate is correct in principle.

Supplementary vivâ voce *Examination on written Papers.*

118. An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e.g.*, *Forms Exn.* 4*a*, *Exn.* 7, *Exn.* 9*a*, *Exn.* 9*c*, *Exn.* 32 70, *&c.*), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

119. Lest, therefore, such an impression should prevail, Candidates for Certificates of Competency should bear in mind that they are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescibed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

120. This result may be easily attained by the Examiner putting a few *vivâ voce* questions to the Candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him possesses) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

121. When an Examiner finds it necessary to fail a Candidate in this *supplementary vivâ voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e.*, *the identical questions and the identical*

answers given, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

122. If the Candidate passes, he will receive the Form Exn. 16, upon which the Government, will issue the Certificate to the candidate, whose testimonials, &c, will be returned at the same time. Form Exn 16 Completion of examination

Special Notice to Candidates.

123. The attention of Candidates is specially called to the following Regulations :—

124. Candidates are required to appear at the examination room punctually at the time appointed.

125. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re examination for a period of three months.

126. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him. He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

127. In the event of any Candidate being discovered referring to any book or memoranda, copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination or copying any part of the problems for the purpose of taking out of the Examination rooms, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

128. No Candidate will be allowed to work out his problems on a slate or on waste paper.

129. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

130. Candidates will find it more convenient both here and at sea, to correct the declination and other elements from the Nautical Almanac by the "hourly differences," which have been given in that work in order to facilitate such calculations ; they will thereby render themselves independent of any proportional or logarithmic table for such purpose.

131. The corrections by inspection from tables given in some of the works on Navigation will not be allowed (*see* Tables IX, XI and XXI in Norie's Epitome, &c.) ; every correction must appear on the papers of the Candidates.

132. Any candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his Certificate for such period as the Government may direct

133. For rules as to amount of time allowed to perform the work, *see* page 36.

Masters' and Mates' Voluntary Examinations in Steam.

134. These examinations are limited to Masters and First or Only Mates who are possessed of or entitled to Certificates of Competency, and are provided for the purpose of giving them an opportunity of undergoing a voluntary examination as to their practical knowledge of the use and working of the steam engine. They are conducted under the superintendence of the Port Officer at such times as they may appoint for the purpose ; and the Examiners are selected by the Government from the Engineer-Surveyors appointed under the Indian Steam Ships Act, 1884. *Voluntary Examinations in Steam.*

135. Any Master or Mate desiring to be examined in Steam must deliver to the Port Officer a statement in writing to that effect, upon the Form of Application (Exn. 2), and the applicant's Certificate of Competency must be delivered to the Port Officer along with his statement. If he is about to pass an examination for a Certificate of Competency at the same time, the applications should be sent in together Application, how to be made. Exn 2.

136. A fee of Rs. 12 must be paid by the applicant for the examination *in Steam*, and the Port Officer will thereupon inform him of the time and place at which he is to attend to Fee to be paid. Conduct of examination, &c.

be examined, and the examination will then and there proceed in the same manner as the other examinations. If the applicant fails, and has given in his Certificate, it will be at once returned to him.

Record of Certificate Exn 14

137. If the applicant passes, the Report (Exn. 14.) and the Certificate of Competency with the Form (Exn. 2) will be sent to the Government; the words "*Passed in Steam,*" with the date and place of examination, will then be entered on the Certificate and its counterpart, and the Certificate will be sent to the Port Officer to be delivered to the applicant in the usual manner.

Failure.

138. If the applicant fails he may not present himself for re examination until the expiration of three months from the date of failure.

Extent of examination

139. The examination is for the most part *vivávoce*, and extends to a general knowledge of the practical use and working of the steam engine, and of the various valves, fittings, and pieces of machinery connected with it. Intricate theoritical questions on calculations of horse power or areas of cylinders and valves, or any of the more difficult questions which appertain to steam engines and boilers, will not be asked. The examination will in fact be confined to what a Master of a steam-vessel may be called upon to perform in the case of the death, incapacity, or delinquency of the engineer.

140. Examiners are to be careful in their examinations to satisfy themselves that applicants really do know the names and uses of the various parts of engines and boilers, and their connecting pipes, valves, cocks, &c. Practical knowledge, as distinguished from theories, abstruse calculations, and book learning is to be the test of the applicant's fitness to have his Certificate indorsed.

Where examination to be conducted

141. The Examiner should arrange to conduct part of the examination in the engine-room of a Steam-ship, unless from circumstances he finds it impossible to do so; and if an oppportunity offer the applicant should be permitted, under the guidance of the Examiner, to start and stop the engine of some vessel which may have her steam up.

142. The Examiner, in sending in his report of examinations of Masters and Mates in steam, should state where the examination has been held.

Examination in elementary questions

143. Candidates will be required to give written answers to sixteen out of twenty questions taken from a book of Elementary Questions pulished by the Government.* These questions will be altered from time to time without notice. The twenty questions are not to be difficult, theoretical, or book questions, but are to be such as any man of ordinary capacity ought to answer who has any "*practical knowledge of the use and working of the steam-engine.*"

Answers to be sent to the Board of Trade

144. These questions, with the Candidate's answers, should be sent to the Government, with the reports, after each examination

145. These answers will also assist in enabling the Government to decide any question that may hereafter arise in cases where it is alleged that applicants have been improperly passed, or improperly rejected.

Candidates referring to books, &c., to be put down as failed.

146. The Examiners will be careful that if any Candidate refers to any book or paper or memorandum, or obtains information from another Candidate during the examination, he will be treated as having failed, will forfeit his fee, and will not be allowed to be re-examined for a period of three months.

In cases of failure Examiner to report questions that decided it.

147. The Examiners will report in the case of failure, the nature of the question or questions that decided the failure, or the point in the management of the engine in which the Candidate was deficient

Service on board Steam-Ship unnecessary

148. There is nothing in the Regulations requiring that applicants for the voluntary examination shall have served on board Steam-Ships; all that is required is that they shall have a "practical knowledge." Examiners will, of course, not fail to appreciate the fact, when passing applicants, that practical knowledge is best gained in the engine-room; and the examination of an Officer who does not produce official evidence of service in Steam Ships, and of experience of engines, must necessarily be more searching than in the case of one who produces evidence of such service and experience.

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*See Appendix. Q.

APPENDIX A.

N.B.—*The Candidate is to write a short definition against as many of the following terms as may be marked with a cross by the Examiner. The Examiner will not mark less than* 10. *The writing should be clear, and the spelling should not be disregarded.*

1. The Equator.
2. The Poles.
3. A Meridian.
4. The Ecliptic.
5. The Tropics.
6. Latitude
7. Parallels of Latitude.
8. Longitude.
9. The Visible Horizon.
10. The Sensible Horizon.
11. The Rational Horizon.
12. Artificial Horizon and its use.
13. True Course of a Ship.
14. Magnetic Course.
15. Compass Course.
16. Variation of the Compass.
17. Deviation of the Compass.
18. The Error of the Compass.
19. Lee Way.
20. Meridian Altitude of a Celestial Object.
21. Azimuth.
22. Amplitude.
23. Declination.
24. Polar Distance.
25. Right Ascension.
26. Dip or Depression of the Horizon.
27. Refraction.
28. Parallax.
29. Semi-diameter.
30. Augmentation of Moon's Semi-diameter.
31. Observed Altitude.
32. Apparent Altitude.
33. True Altitude.
34. Zenith Distance.
35. Vertical Circles.
36. Prime Vertical.
37. Civil Time.
38. Astronomical Time.
39. Sidereal Time.
40. Mean Time.
41. Apparent Time.
42. Equation of Time.
43. Hour Angle of a Celestial Object.
44. Complement of an Arc or Angle.
45. Supplement of ditto.

APPENDIX B.

Adjustments of the Sextant.

The Applicant will answer in writing, on paper which will be given him by the Examiner, all the following questions, numbering his answers with the numbers corresponding to the questions :—

Question.

1. What is the first adjustment of the sextant?
2. How do you make that adjustment?
3. What is the second adjustment?
4. Describe how you make that adjustment?
5. What is the third adjustment?
6. How would you make the third adjustment?
7. In the absence of a screw how would you proceed?
8. How would you find the index error by the horizon?
9. How is it to be applied?
10. Place the index at error of minutes to be added, clamp it, and leave it.

(Note.—The Examiner will see that it is correct).

11. The Examiner will then place the zero of the vernier on the arc, not near any of the marked divisions, and the Candidate will read it.

Note.—In all cases the applicants will name or otherwise point out the screws used in the various adjustments.

(*The above completes the Examination of Second Mates.*)

Candidates for Only Mates', First Mates', and Masters' Certificates will be required to give, in writing, replies to the following questions, *in addition* to those required of Candidates for Second Mates' Certificates as above.

1. How do you find the index error by the Sun?
2. The readings being { } What is the Index Error, and how do you apply it?
3. What proof have you that those measurements or angles have been taken with tolerable accuracy?

APPENDIX C.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency.

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee* of 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book*. The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose *(always taking care first to show the Ensign and the Code Pennant at the Gaff)*,* questioning the Candidates as to the distinguishing Forms of the respective Hoists (*See Plate annexed*), which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I.

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships*.

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist.

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not in the Vocabulary of the Code.

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal,) the three symbols used for Distant Signalling, viz. a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

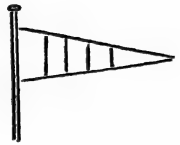
The International Code is used on board Her Majesty's Ships and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

Note.—The International Code of Signals, with the Code List, is prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswood & Co., 54, Gracechurch Street, London, and the principal Booksellers at the various ports.

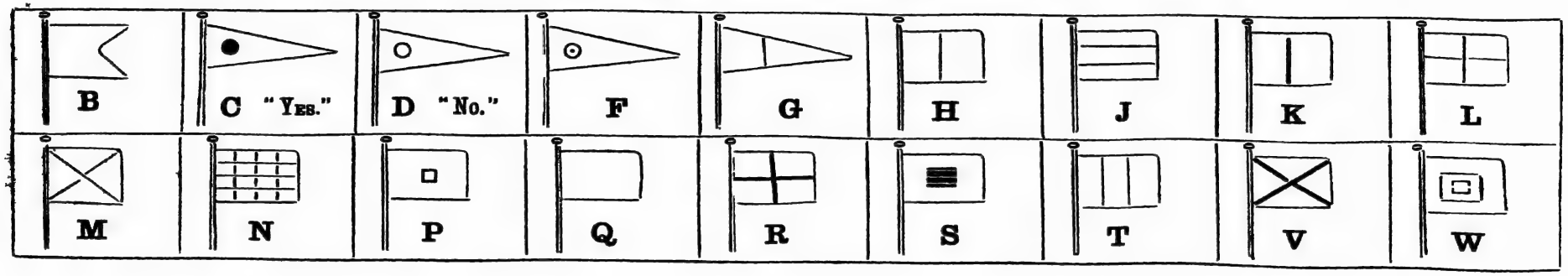
The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner, price 12*s*.

* The object of this is, of course, to distinguish the Signals from those of another Code.

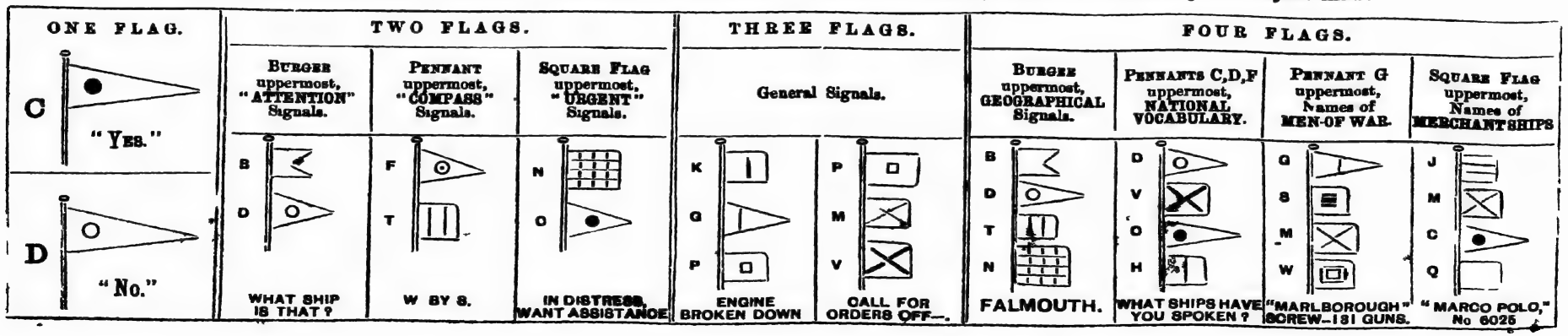
FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

"CODE SIGNAL" AND  "ANSWERING PENNANT."

N.B.—When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—



APPENDIX D.

Regulations respecting Lights and Fog Signals and Steering and Sailing Rules Issued by the Board of Trade.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of Examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked ; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

Thomas Gray,
Assistant Secretary.

Board of Trade,
Marine Department.

Heads of Examination in Regulations respecting Lights and Fog Signals and in the Steering and Sailing Rules.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor ?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor ?

The same as for sailing vessels.

3. Where is the anchor light to be exhibited ?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted ?

It may be exhibited at any height where it can best be seen not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations ?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show ?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible ?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night ?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them.

9. Of what colour are these lights, and how are they to be placed on board the ship ?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh ; and over how many points of the compass, and in what directions, and how far, are they required to show ?

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass ; so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively ;

and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night ?

The same.

12. Are the side-lights required to be fitted with screens ; and if so, of what length, and how ?

Yes on the inboard side ; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam-ships when under steam at night ?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship ?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show ?

Over 20 points, viz., from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens; and if so, of what length ?

The green and red lights are to be fitted with screens on the inboard side, extending at least three feet forward from the light, as in the case of sailing vessels.

17. Over how many points of the compass, in what directions, and how far, are the coloured side-lights of steamers required to show ?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, *i.e.*, from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only ?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases ?

Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use ; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty ?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty ?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net register required to carry when under way and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights ; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry, when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast-head light, similar to those carried by other steam-ships; or

(*b*) They must carry on or in front of the foremast-head, and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry?

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast-head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance not less than three miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28. If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signals as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart: the highest and lowest of these lights shall be red and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same

position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast-head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by bellows or other mechanical means, and also with an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam-ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 13 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard.

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.:—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing, or it may be a steam trawler end on, or within 2 points of being end on, to me.

49. If you see a green, or a red light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance, fog, &c., or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing traveller engaged in trawling (1) under one arrangement of lights heading so that her side-lights or obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail.

53. How do you know?

Because there is no white mast-head light.

54 If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and a red ball on it, and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56 If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W.N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.-E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case; and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the position indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light, or a red light to a green light, the ships carrying the lights are crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to starboard. If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70. A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When the by rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75. Is there any general direction in the steering and sailing rules; and if so, what is it?

Yes, it is this: that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———)?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default

by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply ?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of there gulations, who is to be deemed in fault for the collision ?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels ?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers ?

Yes: unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only ?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*) of Article 10, which apply to only British fishing vessels.

83. Do you know where the present regulations are to be found ?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision ?

Yes.

85. What is the penalty for default ?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance ?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship ?

It is.

88. Why ?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence ?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

Regulations for preventing collisions at sea. Order in Council of 11th August 1884.

Preliminary.

Art. 1. In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship ; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

Rules concerning Lights.

Art. 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass ; so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side ; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the

horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the starboard side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the port side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass; so fixed as to throw the light from right ahead to 2 points abaft the beam on the port side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a.*) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of, but not lower than, her foremast-head, three black balls or shapes, each two feet in diameter.

(*b.*) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart: the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast-head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c.*) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way, shall carry them.

(*d.*) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art. 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but

shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art. 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre:—

(*a*) All fishing vessels and fishing boats of 20 tons net registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this Article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the

* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*e*) A steam-ship and a sailing ship, when not under way shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This Article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art. 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art. 23. In obeying and construing these rules due regard shall be had to all dangers of navigation; and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art. 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation.

Art. 25. Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art. 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute.
2. The International Code signal of distress indicated by N C.
3. The distant signal, consisting of a square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute.
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.).
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1.) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft

the beam on the port side: and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885.—Sailing Trawlers of any Tonnage.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December, 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night with a clear atmosphere for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

Aids to Memory in four verses, by Thomas Gray.

1. *Two Steam-ships meeting.*

When both side-lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN TO GREEN——or, RED TO RED——
Perfect safety——Go ahead!

3. *Two Steam-ships crossing.*

Note.—This is the position of greatest danger: there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear;
To act as judgment says is proper:—
To port—or Starboard—Back,—or, Stop her!

But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do.
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out;
In danger, with no room to turn,
Ease her, stop her, go astern.

14th October 1867.

APPENDIX E.

Distress and Pilot Signals.

The following sections, together with the schedules referred to therein, of the "Merchant Shipping Acts Amendment Act, 1873," relate to Signals of Distress and signals for Pilots. (*See also* "*Regulations for preventing Collisions at sea.*" *Article* 27.) M S Act, 1873.

18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress. Signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots.

19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this Act.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals.

20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act, or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.

Signals of Distress.

In the day-time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the day-time:—

1. A gun fired at intervals of about a minute;
2. The International Code signal of distress indicated by N C;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.

Signals to be made by Ships wanting a Pilot.

In the day-time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day-time, viz.—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX F.

Examination in Chart.

For all Grades where the Chart is used.

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart* whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemisphere.]

* The terms "true" and "magnetic" are used for the sake of brevity and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" point of the compass respectively.

1. Using deviation [card] [curve*] No. , find the course to steer by compass from to ; also the distance.

Answer.—Compass course °

Distance °

Variation °

Deviation °

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude °

Longitude °

3. With the ship's head as above, a [point] [light-house] bore by compass , and after continuing on the same course miles it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude °

Longitude °

Distance °

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature °

Date °

Chart used °

Additional for Masters.

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course °

Distance °

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand, nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

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* A Candidate for a Master's Certificate is expected to use either a card of deviations or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him.

APPENDIX G.

Deviation of the Compass.

N. B.—*The Examiner will not mark less than* 12 *of the following questions, which must be correctly answered by the candidate, and the Examiner's attention is specially called to the importance of Questions* 7, 8, 9, 10, *and* 19, *which should be marked in all cases.*

1. What do you mean by Deviation of the Compass?
2. How do you determine the deviation (*a*) when in port, and (*b*) when at sea?
3. Having determined the deviation with the ship's head on the various points of the Compass, how do you know when it is easterly and when westerly?
4. Why is it necessary, in order to ascertain the deviations, to bring the ship's head in more than one direction?
5. For accuracy, what is the least number of points to which the ship's head should be brought?
6. How would you find the deviation when sailing along a well known coast?
7. In the following table give the correct magnetic bearing of the distant object, and thence the deviation:—

Ship's head by Standard Compass.	Bearing of distant object by Standard Compass.	Deviation required.	Ship's head by Standard Compass.	Bearing of distant object by Standard Compass.	Deviation required.
North N.-E. East S.-E.			South S.-W. West N.-W.		

8. With the deviation as above, give the courses you would steer by the Standard Compass to make the following courses, correct magnetic [ ].
9. Supposing you have steered the following courses by the Standard Compass, find the correct magnetic courses made from the above deviation table [ ].
10. You have taken the following bearings of two distant objects by your Standard Compass as above; with the ship's head at , find the bearings, correct magnetic [ ].
11. Name some suitable objects by which you could readily obtain the deviation of the Compass when sailing along the coasts of the English Channel.
12. Do you expect the deviation to change; if so, state under what circumstances?
13. How often is it advisable to test the accuracy of your table of deviations?
14. State briefly what you have chiefly to guard against in selecting a position for the Compass.
15. The Compasses of iron ships are more or less affected by what is termed the heeling error; on what courses does this error vanish, and on what courses is it the greatest?
16. State to which side of the ship, in the majority of cases, is the North point of the Compass drawn in the Northern Hemisphere; and what effect has it on the assumed position of the ship when she is steering on Northerly, and also on Southerly courses?
17. The effect being as you state, on what courses would you keep away, and on what courses would you keep closer to the wind, in order to make good a given Compass course?
18. Does the same rule hold good in both hemispheres with regard to the heeling error?
19. Your Steering Compass having a large error, how would you proceed to correct that Compass by compensating magnets and soft iron, in order to reduce the error within manageable limits?

APPENDIX H.

Syllabus of Examination in the Laws of the Deviation of the Compasses of an Iron Ship, and in the Means of compensating or correcting it.

Candidates for the voluntary examination in Compass Deviation, and also for Extra Masters' Certificates, will be examined in the whole of this syllabus, and will be required to answer all

the questions correctly, and to the entire satisfaction of the Examiner.

1. Describe an artificial magnet, and how a steel bar or needle is usually magnetized.

2. [*For the sake of simplicity it is desirable to adopt the nomenclature of the Astronomer Royal, and call that pole of the compass needle that points to the magnetic north the red, and the other the blue pole.*] What effect has the pole of one magnet of either name on the pole of the same name of another magnet, and what would be the consequence of the pole of one magnet of either name being brought near enough to affect the pole of contrary name, if in these cases both magnets were freely suspended ?

3. By applying this law to all magnets, natural as well as artificial, show what would be the result on a magnetic bar or needle, freely suspended, but by weight or by the nature of its mounting constrained to preserve a horizontal position ; and what result, if so mounted, but free to move in every direction, the earth being regarded as a natural magnet ?

4. Which is the red magnetic pole of the earth, and which the blue ?

5. What is the cause of the variation of the compass ?

6. What is meant by the deviation of the compass ?

7. Describe the sub-permanent magnetism of an iron ship, and state when and how it is acquired, and which is the sub-permanent red, and which is the blue pole, and why it is called sub-permanent magnetism.

8. What is meant by " the composition of forces" and " the parallelogram of forces," and show how the knowledge of these is valuable in ascertaining and compensating the sub-permanent magnetism of an iron ship ?

9. Describe the co-efficients B and C, plus (+), and minus (—), and why they are said to produce semi-circular deviations.

10. On what points by compass bearing of the ship's head does + B give westerly deviation, and on what does it give easterly ; and also on what point does — B give westerly, and on what points easterly ?

11. On what points does + C give westerly, and on what points easterly ; also on what points does — C give westerly, and on what points easterly deviation ?

12. How would you compensate the co-efficient C ?

13. How would you compensate the co-efficient B ?

14. If the value either of co-efficient B or C be given, also the magnetic direction of the ship's head while she was being built, how by the traverse tables would you determine the approximate value of the other co-efficient C or B ; and if the value of both these co-efficients be given, how would you determine approximately the direction, by compass, of the ship's head whilst being built ?

15. What is meant by transient induced magnetism ?

16. Under what circumstances does induced magnetism give semi-circular deviation ?

17. How would you compensate — B resulting from induced magnetism, and why for this purpose would you adopt a different mode of compensation to that employed in correcting — B produced by sub-permanent magnetism ?

18. Describe quadrantal deviation, and state what co-efficients represent it ; also on what points of the ship's head, by compass, each of these co-efficients gives the greatest amount of deviation.

19. On what points of the compass will each of these co-efficients, D and E + and —, give easterly, and on what points westerly deviation ?

20. Generally + D gives the greatest amount of *quadrantal* deviation : how should it be compensated ?

21. If D be compensated in the manner you have described, will it remain so in every latitude ? If so, state the reason why.

22. What conditions of the iron of a ship will produce + D and what — D ?

23. Describe the nature of the deviation resulting from + A and —A, and describe the error in the construction of the compass that frequently produces them.

24. Under what circumstances does the character of A and E so change as to render it desirable that these co-efficients should be disregarded or modified ?

25. The value of A, B, C, D, and E being given, or B, C, and D only, find the deviation on any required point of the compass, or construct a table of deviation, if required.

26. Describe how you would determine the deviation by means of a distant object, by reciprocal bearings, or by the figures on the dock walls.

27. If it be required to determine the deviation of two or more compasses, it is most convenient to bring the ship's head, *correct* magnetic, on as many points as may be necessary. To determine the co-efficients B, C, and D, the bearing of the ship's head by each compass is required. How would you for this purpose employ a Graphic Method?

28 State your rule for determining whether deviation is easterly or westerly.

29. Describe the use of the "dumb card," or an azimuth card without a needle, in compensating a compass.

30. If you determine the deviation by an azimuth or an amplitude of a heavenly body, it is then combined with variation,* which together is sometimes called the *correction* for the compass. State when the deviation is the difference between the variation and the *correction*, and when the sum; and when it is of the same name as that of the *correction*, and when of the contrary name.

31. In observing azimuths of heavenly bodies, the best method is by "time azimuths," since these can be observed without an altitude when the ship is in port, or the horizon cannot be defined from any cause. Given the sun's declination, the hour of the day, and the latitude to find the true bearing of the sun.†

32. By night, if it be desirable to observe the *correction* of the compass. Given the day of the year, and time at ship, also the latitude of the place to determine what† star will be in good position for this purpose.

33. If your correcting magnets are so mounted that their positions can be altered, describe the process by which, on open sea, you can place the ship's head correct magnetic N. (or S.), and correct magnetic E. (or W.), and can make the correction perfect.

34. Given the name of a star, the time, the place of ship, the variation of the compass, and the bearing of the star by compass. Determine the deviation, and name it east or west.

35. If an ordinary standard compass placed higher than the iron top sides be compensated whilst the ship is upright, what coefficient will be effected by heeling?

36. When generally will this co-efficient be plus, and when minus?

37. State the exceptions to this general rule.

38. Does the heeling error arise from the altered position of the sub-permanent poles of the ship, or from a change in the induced magnetism?

39. To what extent is the heeling error altered by a change in the magnetic latitude of the ship?

40. If a ship is beating to windward; when she tacks, under what circumstances will the heeling error retain the same name, and under what circumstances will it take the contrary name?

41. If a ship is placed on the opposite tack by the change of wind, the ship's course being the same by compass, will the heeling error change its name?

42. Under what circumstances will the heeling error, if disregarded, take the ship to windward, or when to leeward?

43. Can the heeling error be compensated? If so, state the means to be employed.

44. Can the compensation of the heeling error be depended on in every latitude? If not, state the reason.

45. Given the heel, the direction of the ship's head by compass, and the heeling error observed, to find the approximate heeling error, with a greater or less given heel, and with the ship's head on some other named point of the compass, the ship's magnetic latitude being in both cases the same.

46. Describe any instrument to show the ship's heel (generally called a clinometer), and state how and where it should be fixed.

47. Should the clinometer be observed when the ship is swung to determine the deviation when the ship is upright? If so, state the reason why.

APPENDIX I.

Particulars of Examination in Sumner's Method by Projection.

Candidates are required to compute their longitude by chronometer worked with two assumed latitudes.

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* The magnetic variation is best determined by a chart of the curves of equal magnetic variation.

† The process of finding time azimuths by the ordinary formulæ of spherical trigonometry is tedious, and since on board an iron ship these observations should be often repeated, the candidate will be allowed to use any table or graphic or linear method that will solve the problem within a half of a degree, the altitude of the heavenly body not being given.

They are to mark off on the chart the two positions ascertained by the first altitude, and are then to connect them with a straight line, termed the *line of position*, or the line of equal altitude, which will show the bearing of any land it may intersect.

They will then be required to correct the first *line of position* for the ship's change of station, in the interval between the two observations, to project the *line of position* corresponding to the second observation on the chart, showing by its intersection with the first *line of position*, as corrected for change of station, the position of the ship at the time of the second observation.

The longitudes corresponding to the two latitudes by the second observation are no longer furnished by the Examiners. The candidates are consequently required to work out the whole of the problem for themselves (in place of the explanation recently required), and must be prepared to find the sun's true bearing by projection at the time of taking either the first or second observation; and when necessary to produce the *lines of positions* on the chart in order to make them cut one another should the position of the ship happen to be outside the parallels of the two assumed latitudes given in the question. Outline charts, extending from 46° to 49° and from 49° to 52° of latitude, respectively, are furnished by the Board of Trade to the different examiners for this purpose.

APPENDIX K.

The Candidate must answer in writing, on paper supplied to him by the Examiner, the following questions, numbering the answer to correspond with the questions.

Question—

Questions relating to cyclones or revolving storms common in tropical seas.

1. The direction of the wind in a cyclone being*_____ state the probable bearing of its centre from the ship in the*_____ Hemisphere.
2. And suppose that the wind during the passage of the same cyclone were found to change towards the*_____, what would be the ship's position with reference to the line of progression of the centre of the cyclone, and what action would you take?
3. Under what conditions would the change in the direction of the wind in the cyclone be the reverse of the above?
4. What are the usual indications of a ship being on the line of progression of the centre of a cyclone?
5. What are the usual indications that a ship is (*a*) approaching the centre of a cyclone; (*b*) receding from it?
6. Describe the track usually taken by cyclones in the †_____, and state the seasons of the year in which they most frequently occur in that region.

APPENDIX L.

Instructions to Examiners.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follows:—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

* These spaces to be filled in by the Examiners, and frequently varied.

† The Examiners to fill in whether North Atlantic, Bay of Bengal, China Seas, Indian Ocean, &c., &c.

(*d*) Cards, five of each as follow :—

1. White.
2. Black.
3. Red.
4. Pink.*
5. Green.
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (*Cards.*)

In conducting the examination by daylight, the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the daylight test.
2. If the candidate hesitates in any of his answers, so as to raise a doubt in the mind of the examiner as to his ablity to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that, they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

Examination by artificial Light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn, and at least 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour; and if so, what colour?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star * is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c.; or to name card No. 7 as red, green, or yellow; or glass No. 2 as green, blue, or yellow; or glass No. 5 as red, pink, salmon, &c.; or glass No. 7 as bright red or bright green; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

APPENDIX M.

Instructions to Examiners.

Compass Adjustment.

It is of the utmost importance that masters of ships should thoroughly understand the tentative method of Compass Adjust-

ment as generally practised in merchant ships, and Examiners are therefore directed to fully satisfy themselves that all Candidates for Masters' Certificates have this particular knowledge. It should be tested in connexion with the Form of Examination, "Exn. 7," or it may be tested by Captain Beall's "Deviascope" at those ports which have been supplied with this instrument. Where the "Deviascope" is used it will not be necessary for the Candidates to give the written answers and sketches illustrative of the Question 19 of Form Examination 7.

A concise statement of the present method of tentative Compass Adjustment is forwarded for the use of Examiners. The Government wish them, however, distinctly to understand that the Government are not in any way advocating the correction of that part of co-efficient B which arises from vertical induction in soft iron by a permanent magnet instead of by a soft iron bar. The Government have no authority to interfere with the methods in use amongst Compass adjusters for the adjustment of Compasses in iron ships, but instruct the Examiners to satisfy themselves that masters are acquainted with the ordinary method as at present practised.

The examination by the "Deviascope" is at present only experimental, and no Candidate should be reported as having "failed" who does not pass the examination in it, provided he has answered satisfactorily the Question 19, "Exn. 7."

The "Deviascope" is sent only to three ports at present, and its extended use will depend upon experience at those ports.

The Tentative Method of Compass Adjustment as generally practised by Compass Adjusters in Ships of the Mercantile Marine.

Before describing the practice it will be as well to briefly state the co-efficients used to express the different magnetic forces:—

Co-efficient	A	represents	a constant quantity.
„	B	„	semi-circular deviation due to fore and aft magnetic forces.
„	C	„	semi-circular deviation due to transverse magnetic forces.
„	D	„	quadrantal deviation due to horizontal induction in soft iron.
„	E	„	quadrantal deviation due to horizontal induction in soft iron unsymmetrically distributed.

Signs and Effects of Co-efficients A, B, C, D, and E.

Co-efficient A represents a constant deviation of the same nature and amount, on all points of the compass; + A signifying easterly, and — A, westerly deviation.

Co-efficient + B represents an attraction towards the ship's head, and causes easterly deviations with ship's head in the eastern semi-circle of the Compass, and westerly deviations in the western semi-circle, attaining a maximum value on the east and west points, decreasing to zero on north and south points, by Compass.

Co-efficient — B represents an attraction towards the ship's stern, and causes easterly deviations with ship's head in the western semi-circle, and westerly deviations with the ship's head in the eastern semi-circle, with a maximum value on the east and west points, decreasing to zero on the north and south points, by Compass.

Co-efficient + C represents an attraction towards the starboard side of the ship, and causes easterly deviations with ship's head in the northern semi-circle, and westerly deviations in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient — C represents an attraction towards the port side of the ship, and causes westerly deviations with ship's head in the northern semi-circle, and easterly in the southern semi-circle, attaining a maximum value on the north and south points, decreasing to zero on the east and west points, by Compass.

Co-efficient + D gives easterly deviations with ship's head between N. and E. and S. and W., and westerly deviations between S. and E. and N. and W.

Co-efficient — D gives results exactly the reverse to + D.

Note.—Both + D and — D have a maximum value on the four quadrantal points, and become zero on the cardinal points by Compass.

Co-efficient + E gives easterly deviations with ship's head between N.E. and N.W. and S.E. and S. W. and westerly deviations between N.E. and S.E. and N.W. and S.W.

Co-efficient — E gives results exactly the reverse to + E.

Note.—Both + E and — E have a maximum value on the cardinal points, and become zero on the four quadrantal points, but are usually very small in amount in Compasses placed in the middle line of the ship.

Heeling Error.—The heeling error arises partly from vertical induction in transverse iron, and iron vertical to the ship's deck, and partly from the vertical component of the sub-permanent magnetism of the ship. In the Northern Hemisphere in the majority of cases the N. point of the Compass needle is drawn to windard or the high side of the ship, with, as a rule, a maximum heeling error on N. and S. points, and zero on E. and W. points by Compass. If the Compass is not properly placed in the ship, there may be a sensible heeling deviation on E. and W. courses.

Tentative Corrections.

To correct co-efficient C.—With ship's head north or south, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly athwart ship, either on the deck or on any convenient platform, with its centre on the fore and aft line passing through the centre of the Compass card, placing its red or marked end to starboard if the N. point of the needle deviates to the starboard side, or to port if it deviates to the port side of the ship, moving the magnet to or from the Compass until it points correctly.

Note.—The deviation represented by co-efficient C varies inversely as the earth's horizontal force, providing the iron is symmetrically arranged on each side of the Compass.

To correct co-efficient B.—With ship's head east or west, magnetic, place a bar magnet (or more than one if necessary) horizontally and exactly parallel to the fore and aft midship line of the ship, either on the deck or on any convenient platform, with its centre on the athwart ship line passing through the centre of the Compass, the red or marked end of the magnet being directed aft if the end point of the Compass needle deviates towards the stern, or forward if it deviates towards the bow, moving the magnet to or from the Compass until it points correctly.

Note.—The co-efficient B consists of two parts: one is due to the permanent magnetism of the ship, which varies inversely as the earth's horizontal force; the other to vertical induction in soft iron, which varies as the tangent of the dip. As ships in the merchant service are rarely built with a view of providing a satisfactory position for the standard Compasses, it is very difficult in many ships to find a position for it where it will not be affected by vertical iron. It follows, therefore, that if this deviation be compensated, as is customary, by a fore and aft permanent magnet instead of by a vertical soft iron bar, the poles of the magnet may in some cases require to be reversed in high southern latitudes.

To correct co-efficient + D.—With ship's head on one of the quadrantal points, magnetic, the + D is generally corrected by boxes of small chain, cylinders of soft iron, or soft iron globes placed athwart ships on the same level, and at equal distances, on the port and starboard sides of the Compass, with the centre of their mass on a level with the Compass needle, move them to or from the Compass till the needle points correctly.

To correct co-efficient—D.—Co-efficient—D, which is of very rare occurrence, is corrected by placing the above correctors on the fore and aft sides of the compass.

Note.—When once the co-efficient D is properly corrected by soft iron it is correct for all magnetic latitudes, provided the distribution of the iron in the ship is not materially changed, and provided the magnetism of the soft iron has not been affected by the Compass needles. With short needles having small magnetic power, such for instance as Sir Wm. Thomson's, there will probably be no change; but when the needles are long and powerful, one-half the original D may be expected to return when approaching the magnetic equator. *See* Admiralty Manual, 1882, page 96, as follows:—"When "a compass with long and powerful needless is employed, "soft iron correctors placed very near it become mag- "netized by induction according to the power of the

" needles, and the resulting correction will not remain
" strictly perfect in all latitudes."

To correct Heeling Error.—The heeling error is corrected for any given magnetic latitude by placing a vertical magnet exactly under the centre of the Compass card, with its N. or red pole uppermost if the heeling error is to windward or to the high side of ship, or its S. or blue end uppermost if to leeward or to the low side of ship, moving the magnet to or from the Compass until the heeling error is corrected.

Note.—The heeling error, due to the permanent par of the magnetism, varies inversely as the earth's horizontal force, and consequently is greatest in high latitudes, diminishes as the ship approaches the magnetic equator, and increases again, still retaining the same name, as the ship recedes from the magnetic equator in the Southern Hemisphere. The heeling error, due to transverse and vertical soft iron, decreases as the ship approaches the magnetic equator, where it is zero, and is of a contrary name in the Southern Hemisphere. It is probable that the poles of the vertical magnet may require to be reversed in high southern latitudes.

A divided scale should be marked or fitted outside the tube or some other convenient place, so as to show the proper position for the correcting magnet as found in any given magnetic latitude, and the same recorded as a guide for approximately placing the magnet in position on any subsequent voyage in the same locality, and especially on the return of the ship to the United Kingdom.

Candidates should understand that the object of tentative adjustment is to bring the deviations within manageable limits, and also to equalise the directive force of the needle so far as is practicable on all courses; but no system of adjustment whatever is sufficiently reliable in character to absolve the navigator from the necessity of using every precaution, and especially of ascertaining the deviation on every available opportunity by observations of the sun by day and the other heavenly bodies by night.

APPENDIX N.

(From Memorandum on Examination of Engineers.)

EXAMINATION OF A MASTER OR MATE IN STEAM

The regulations under which these examinations are conducted are printed at pages 41 to 43 of the regulations for examinations of masters and mates. (Exn. 1.)

A candidate for this examination is required to have a thorough grasp of the construction of the steam engine and boiler, to enable him, in the first place, to understand the nature and importance of any defect which may be reported to him by the engineer, and so that he may work in harmony with the engineer in affording time and facilities for disconnexions, inspections, adjustments, and repairs.

To have a looking-on knowledge of what the principal repairs are about engines and boilers and pipes, and how these repairs are accomplished.

To be able to form an independent opinion as to a breakdown and the consequent propriety or impropriety of proceeding under steam with temporarily repaired or defective machinery.

To understand how to estimate approximately the reduction of fuel required for reduced speed, and consequently to sanction such reduction of speed as may seem to him to be warranted by the report of the engineer, and to satisfy himself before leaving port that there is sufficient coal for the voyage.

To have an intelligent grasp of the general run of pipes and connexions in the engine room, the marking of cocks, the opening and closing of cocks and valves, how mistakes of importance may be made in the confusion of an accident, and how best to guard against such mistakes.

To be capable of being left in charge of the feeding of a set of boilers, to understand the working of the water-gauge, and to be able to guard against being misled by false indications of the gauge glass.

To understand about blowing down and surfacing, the reasons for doing so, and the danger which may result from the neglect of these under certain circumstances. A master or mate presenting himself for examination in steam must be understood to have made up for his want of practical experience by reading up

about the steam engine. He ought, therefore, to show that he has given his mind to intelligently understanding the *rationale* of the action of the steam engine. Under this head, he should, therefore, be able to state approximately the quantity of heat required in the formation of steam, the remarkable relation of "latent" heat to "sensible" heat, using these popular names, how much steam can be raised by the combustion of one pound of coal, what horse-power measure is, what indicated horse-power is, the action of the slide-valve, the course of the steam through the engine, the advantage of working expansively, and how the expansive action is shown by the indicator diagram.

The candidate has to answer in writing 16 out of 20 questions selected from the book of Elementary Questinos * Selections for this examination are given on the alphabetic sheet for " Steam." Generally, these answers are given by candidates as learned by rote from a book; the candidate should therefore be asked such *vivâ voce* questions as will necessitate his giving his answers in different words, so as to discover whether he has the root of the matter in him.

The principal part of the *vivâ voce* is the examination on board a steamer, preferably one with which he is unacquainted. He is told to look about and try to find out the run of the machinery without the assistance of any one; the Examiner to be in the engine-room to see that this independent examination is properly carried out. When the candidate reports that he thinks he knows the whole arrangement of the machinery, the Examiner will then question him on the uses of the parts,get him to point out the different cylinders, pumps, valves, condenser, &c. He must show that he understands the run of the pipes in the bilges, not necessarily that he has gone over every one of them, but he ought to be directed to trace, at least, one important range of pipes, and to thoroughly satisfy the Examiner that he could be safely trusted to manipulate the valves or cocks in connexion therewith. It will not often be practicable for the candidate to be asked to actually work engines under steam, but he must satisfy the Examiner that he knows how to do so, and that he is aware what precautions have to be taken in regard to water in the cylinder, &c. It is most important that a candidate should show that, in the event of an accident depriving him of the assistance of engineers, he knows what to do to safely take his vessel to an anchorage, or to stop the engines and proceed under sail alone.

The examination of a mate in steam is the same as that of a master. The knowledge is not with reference to the mate's position. A mate may be examined, but such examination implies that the mate will one day be a master, when the possession of the knowledge will be an advantage to him in the discharge of his duties as master.

APPENDIX O.

The following is a reprint of

INSTRUCTIONS

TO

EXAMINERS OF MASTERS AND MATES.

1. The Examiners already understand that they are to be very careful (in examining all applicants for Certificates of Competency) to satisfy themselves that the applicants understand the Rule of the Road at Sea, and should decline to pass every applicant who does not understand it.

2. As a serious misapprehension has, however, arisen in a recent case in which Sound Signals were being made by a steamer under way in thick weather, contrary to the express wording of Articles 12*a* and 19 of the Regulations, it is more than ever incumbent on Examiners not to pass any applicant unless the Examiner is satisfied that the applicant understands that the Signals named in Article 19 are purely optional, and are only allowed to be made in cases in which the weather is so clear that the ship making them has the other vessel in sight.

3. Any Master using these *optional* Sound Signals, even when the other vessel is in sight, does so in every case on his own

* Printed at end of Engineers' Regulations, Exn. 1*a*.

responsibility; but if he uses them when the other vessel is *not* in sight, he commits a very serious act of disobedience to the Regulations, and must abide the consequences of his illegal act.

4. Applicants must be made to understand that the compulsory Sound Signal which *must* be made by a steamer under way in a fog is a prolonged blast under Article 12*a*, and no other Sound Signal.

5. In examining an applicant on the application of Articles 12 and 13, the Examiner should, by answers to questions, ascertain that the applicant understands that it is his duty to go at a moderate speed in fog, while, as regards Article 24, the Examiner should impress on the applicant that an "ordinary precaution" to be observed in the navigation of a steam-ship in a fog is to get the way off his own vessel immediately he hears the Sound Signal of another steamer, and then he should go ahead very slowly, blowing the "prolonged blast" at intervals, and feeling his way until all danger of collision is passed.

APPENDIX P.

FORMS used in connection with the EXAMINATION and CERTIFICATES of MASTERS AND MATES.

Name of Form.	Initial Letters and Numbers
Regulations relating to the Examinations of Masters and Mates.	Exn. 1
Masters' and Mates' Form of Application for Examination.	Exn. 2
Form of Application for Examination (Colours) ...	Exn 2*a*.
Examination Paper, to be used in the examination of Second Mates.	Exn. 4
Ditto, to be used by all candidates when appearing for examination for the first time only.	Exn. 4*a*.
Ditto, Second Mates	Exn. 5
Ditto, Only and First Mates	Exn 6
Ditto, ditto ditto	Exn. 6*a*.
Ditto, Masters, Ordinary	Exn. 7
Ditto, for adjustments of the Sextant ...	Exn. 9*a*.
Ditto, Examination in Chart (for Mates)...	Exn. 9*c*.
Ditto, (for Masters)	Exn. 9*d*.
Examiners' Report of Masters' and Mates' Examination	Exn. 14
Examiners' Authority for delivery of Certificate to successful candidate.	Exn. 16
Examiners' Certificate (Colours)	Exn. 16*d*.
Ditto authority for return of Fee to unsuccessful candidate (Colours).	Exn. 17*a*.
Ditto Report on Colours tests	Exn. 17*b*.
Application for renewed Certificate	Exn. 23
Deviation cards	Exn. 24
Napier's Diagram	Exn. 25
Examination paper on Cyclones on revolving storms ...	Exn. 32

Government of Bengal.

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

MASTER.

To_____

Whereas it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of MASTER in the Merchant Service, I do hereby, in pursuance of Act I of 1859, grant you this Certificate of Competency.

By order of the Government of Bengal,

*this*_____*day of*_____18____.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL

No. of Certificate

Address of Owner _____

Date and Place of Birth _____

Signature _____

This Certificate is given upon an ORDINARY EXAMINATION *passed at* _____ *on the* _____

day of _____ 18__.

Any MASTER *or* MATE *who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.*

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the _____ *day of* _____ 18__.

_____

_____

BENGAL.

Government of Bengal

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act*, 1869.

Colonial Certificate of Competency

AS

FIRST MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of FIRST MATE in the Merchant Service, I do hereby, in pursuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18—.

Under-Secy. to the Govt of Bengal,

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

Address of Owner ———————————————————

Date and Place of Birth ———————————————————

Signature ———————————————————

This Certificate is given upon an ORDINARY EXAMINATION passed at ——————— *on the* ———————
day of ——————— 18——.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at the Port of Calcutta on the ——————— *day of* ——————— 18——.

———————————————————

———————————————————

Government of Bengal

BENGAL.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, *issued under section* 8 *of the Merchant Shipping (Colonial) Act,* 1869.

Colonial Certificate of Competency

AS

ONLY MATE.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of ONLY MATE in the Merchant Service, I do hereby, in persuance of Act I of* 1859, *grant you this Certificate of Competency.*

By order of the Government of Bengal,

*this*_____*day of*_____18____.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____*on the*_____ *day of*_____18____.

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____*day of*_____18____.

BENGAL.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

In accordance with Her Majesty's order in Council of the 29th June 1882, issued under section 8 of the Merchant Shipping (Colonial) Act, 1869.

Colonial Certificate of Competency

AS

SECOND MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of SECOND MATE in the Merchant Service, I do hereby, in persuance of Act I of 1859, grant you this Certificate of Competency.*

By order of the Government of Bengal,

this _____ *day of* _____ 18——.

Under-Secy. to the Govt. of Bengal.

Registered at the Office of the Port Officer of Calcutta.

BENGAL.

No. of Certificate [redacted]

*Address of owner*_____

*Date and Place of Birth*_____

*Signature*_____

*This Certificate is given upon an ORDINARY EXAMINATION passed at*_____ *on the*_____ *day of*_____ 18 .

Any MASTER or MATE who fails to deliver up a certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500. This Certificate is liable to be cancelled or suspended by any Court or Tribunal which has power under the Imperial Act 25 and 26 Vic., cap. 63, sec. 23, to cancel or suspend Certificates.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at the Port of Calcutta on the*_____ *day of*_____ 18 .

_____

_____

NOTIFICATION.

No. 26 Marine, dated Calcutta, the 31st January 1890.

UNDER the powers conferred upon him by section 10 of Act I of 1859, and with the sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules for the examination of persons desirous of obtaining local certificates of competency as Masters and Mates in the Mercantile Marine. These rules supersede those contained in the Notification of the General (Marine) Department of this Government, dated the 28th August 1877, and published in the *Calcutta Gazette* of the 29th idem.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed, and arrangements have been made for holding the examinations periodically at the Port of Calcutta. The examinations will be held twice a quarter or at such other times as the Government may appoint.

Examinations continued till all the Candidates are examined.

2. The examinations will commence early in the forenoon, and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Notice of application for examination to be given to the Port Officer.

3. Candidates for examination must make their application upon the appropriate Form (Exn. 2), which must be filled up at the Port Office. The Exn. 2, properly filled in, together with the Candidate's testimonials and discharges, must be lodged with the Port Officer of Calcutta, not later than the day before the day of examination, and the Candidate must conform to any regulations in this respect which may be laid down by the Government; as, if this be not done, delay may be occasioned.

Testimonials of character, conduct and ability required.

4. Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges have to be verified before the Candidate can be examined, it is desirable that they should be handed in together with the Form Exn. 2 as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners and of British seamen serving in foreign vessels, which cannot be verified by the Port Officer, must be confirmed either by the Consul of the country to which the ship in which the Candidate served belonged, or by some other recognized official authority of that country, or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case will be decided on its own merits, and if the sufficiency of the proofs given appears to be at all doubtful, it must be referred to the Government.

Certificates as to Age.

6. Should any doubt exist as to the age of a Candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their Certificates shall be endorsed to the effect that they are only valid for vessels manned and officered entirely by Asiatics.

Verification of Services by the Port Officer.

8. The time for which length of service as Seaman or Officer in the Mercantile Marine is to be reckoned in all cases referred to in the following paragraphs is to commence at the date when the articles of agreement were signed by the applicant, and to end at the date when he was discharged as shown in the articles of agreement. The certificates of discharge will generally be sufficient evidence of this, but great care must be exercised by the Port Officer and Examiners to detect any tampering in any way with the information contained in them, and to report to the Government at once any suspicious cases.

9. Services which cannot be verified by proper Entries in the Articles of the Ships in which the Candidates have served cannot be counted. For instance, a man will state his service to have been as Second or Only Mate, and to support his assertion will produce a Certificate of Discharge or of Employment by the Master to the effect that he served as Mate, when, on reference to the articles, it appears that he has actually been rated as Boatswain: the service in such a case will not be regarded as having been in the capacity of Mate.

Service as an Apprentice.

10. Time for which Indentures of Apprenticeship are in force will be accepted as sea service, provided that the Apprentice has remained by the ship for at least four-fifths of the time covered by the Indentures, and that the Indentures of the applicant are endorsed by the Owner or Master to whom he has been bound to the effect that he has performed his service faithfully for the whole time agreed upon

Service as 2nd, 3rd or 4th Mate to qualify for Master.

12. Service as Second, Third, or Fourth Mate may be accepted as equivalent to service as First or Only Mate to qualify a Candidate for examination for a Master's Certificate of Competency, provided he can produce satisfactory evidence of his having served at sea 12 months as Second, Third, or Fourth Mate of a Foreign-going Ship while in possession of a First Mate's Certificate of Competency, valid in the United Kingdom. It will be noted that occasional service in charge of a watch in the daytime will not be accepted as Mate's service under the Regulations

Service on board a Training Ship.

13. Part of the time served on board a training ship will be allowed to count as service at sea, provided that the Candidate can produce amongst his testimonials a Certificate from the Committee that he has conducted himself creditably, and passed a good examination in seamanship so far as practised in the training ship as well as in other matters down to the time of his leaving the ship.

14. No period of service on board a training ship will be allowed to count for more than one year's sea service.

Service in capacities other than as Apprentices or Seaman.

15. Candidates whose services have been in capacities other than Apprentice, Ordinary Seaman, or Able Seaman, *e.g.*, Cook, Steward, Carpenter, &c., will be required to satisfy the Port Officer that they have a good knowledge of Seamanship. This may possibly be proved by the production of satisfactory Certificates from Masters with whom the applicants have served. Failing satisfactory evidence, the applicant may be required to perform additional service, which must be in the capacity of Ordinary Seaman or Able Seaman.

Service on rivers and in smooth water.

16. Service performed on rivers, no matter of what size, or in smooth water or partially smooth water limits, cannot be accepted.

Partial loss of sight.

17. A person who has lost the sight of one eye cannot be permitted to be examined for a Certificate of Competency. If he already holds a Certificate, he cannot be examined for a Certificate of a higher grade.

Service in Light ships and Engine-room.

18. Service in Light ships or in an Engine-room will not be accepted as sea service for a Master's or Mate's Certificate of Competency.

Service as Hooghly Master Pilot.

19. Service as a First Class Pilot will be accepted as qualifying for examination for a Master's Certificate for Home Trade Ships, notwithstanding that he may not have served in the capacity of Mate, but only provided that his *Sea Services* are sufficient. For the purpose of this rule, a Hooghly Master Pilot will be held to be a First Class Pilot.

Service as Pilot's Apprentice.

20. Half the amount of service performed as an Apprentice in a Pilot Ship propelled by sails may count as actual Sea Service to qualify for examination for a Certificate of Competency.

Service in Tug Boats.

21. Service performed in Tug Boats employed in Sandheads Service or outside Port limits may be accepted as Sea Service for qualifying for a Mate's Certificate for Home Trade Ships. Service on Hooghly River survey vessels may be accepted on the same conditions Service in the Hooghly Pilot vessels at the Sandheads is Sea Service.

Desertion and gross misconduct.

22. Candidates who have neglected to join their vessels after having signed Articles, or who have deserted their vessels after having joined, or who have been found guilty

of gross misconduct on board, will be required to produce satisfactory proofs of two years' subsequent service and good conduct at sea, unless the Government, after having investigated the matter, should see fit to reduce the time.

If after passing examination services are found to have been insufficient.

23. If after a Candidate has passed his Examination it is discovered on further investigation, *e g*, by verification on the part of the Port Officer, that his services are insufficient to entitle him to receive a Certificate of the grade for which he has passed, it will not be granted to him; but if the Government are satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on his part, he will be allowed to go up for re-examination without payment of a further fee when he has performed the amount of service in which he was deficient.

Certificate of a lower grade may be granted on certain conditions.

24 If in such a case the applicant's services are sufficient to entitle him to receive a Certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, an Inferior Certificate may be granted to him, and the difference, if any, between the fee paid by him for the Superior Certificate and the fee payable for the Inferior Certificate, may be placed to his credit.

Must be re-examined for certificate of higher grade.

25 In such a case, when the applicant has by further service made up the amount in which he was found to be short, he must, before he can receive the higher Certificate, be re-examined in all the subjects.

Colour Tests.

26. The Local Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

27. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

28. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2ª, and pay a fee of one rupee.

29. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

30. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

31. The application of a *Candidate who is presenting himself for Examination for a Master's or Mate's Certificate* must be made on Form Exn. 2. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any of the colours used in the test, he will not be allowed to proceed with the examination in Navigation and Seamanship.

32. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

33. A Candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the Colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If he fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

34. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn. 2ª.

35. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination in Navigation and Seamanship for the Certificate of the higher grade.

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* *See* Appendix O.

36. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

37. Should he ultimately fail to pass the Examination in Navigation and Seamanship, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

38. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency for a Home Trade Ship.

40. All Candidates for Certificates of Competency must first be examined in Colours.*

41 A MATE must be not less than 19 years of age, and have served four years at sea.

No candidate will be allowed to be examined unless he has served two years at sea within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

42. In Navigation, &c.—He must write a legible hand, and understand the first five rules of arithmetic, both simple and compound. He must be able to take a bearing by compass, and be conversant with the use of Mercator's chart, and be able to find, on either a "true" or "magnetic" chart,† the course to steer, and the distance from one given position to another; to find the ship's position on the chart from cross bearings of two objects; from two bearings of the same object, the course and distance run between taking the bearings being given; and the distance of the ship from the object at the time of taking the second bearing.

43. He must also pass an examination in the International Code of Signals.‡

44. In Seamanship, &c.—He must possess a thorough knowledge of the rule of the road as regards both steamers and sailing vessels, their regulation lights, and fog and sound signals.§ He must be able to describe the signals of distress, and the signals to be made by ships wanting a pilot, and the liabilities and penalties incurred by the misuse of these signals;‖ also the use and management of the rocket apparatus in the event of his vessel being stranded. He must be able to mark and use the lead and log lines, to moor and unmoor a vessel, and to manage a ship's boat in heavy weather, &c., &c. He must also understand the construction, use, and action of the bulkhead sluices, the engine-room telegraph, &c., and to answer any other questions of a like nature appertaining to the duties of the Mate of a Home Trade Vessel which the Examiners may think proper to put to him.

45. A MASTER must be not less than 20 years of age, and have served five years at sea, of which one year must have been as First or Only Mate in the Home or Foreign Trade, during which service he must have been in possession of a Mate's Certificate for Home Trade Ships or of a First or Only Mate's Certificate for Foreign-going Ships. *Vide also para.* 19.

No candidate will be allowed to be examined unless he has served at sea two years within the last six years, and six months within the last three years immediately preceding the date of his application to be examined.

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* *See* Appendix F.

† *See* Appendix D. The terms "true" and "magnetic" are used throughout the Regulations for the sake of brevity and convenience for indicating charts that have compasses engraved upon them, showing the "true" or "magnetic" point of the compass respectively.

‡ *See* Appendix A.

§ *See* Appendix B

‖ *See* Appendix C.

Any cases not coming within the above conditions must be submitted for the special consideration of the Government before the candidate is allowed to be examined.

46. In Navigation, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master will be required to find on a chart the course to steer by compass in order to counteract the effect of a given current, and to find the distance the ship will make good towards a given point in a certain time, and to *work out practically* the correction to apply to soundings taken at a given time and place, to compare with the depth marked on the chart,* &c. He will also be required to understand the use of the quadrant, to be able to observe with it, to read *off* and *on* the arc, and to find the index error by the horizon. He will also be required to find the latitude by a meridian altitude of the sun, and to give written answers (*vide supplementary viva voce test, page* 40) to certain practical questions on the subject of the deviation of the compass †

47. In Seamanship, &c.—In addition to the qualifications required of a Mate of a Home Trade Ship, a Master must understand how to rig a sea anchor, and what means to apply to keep a steamer with machinery disabled out of the trough of the sea, &c. How to get a cast of the lead in heavy weather, &c. He will be examined as to his resources for the preservation of the crew and passengers in the event of wreck, and the steps to be taken if his vessel is disabled and drifting towards a lee shore, and will be required to answer any other questions appertaining to the management of Home Trade Vessels which the Examiner may think necessary to put to him.

Failure.

Re-examination in case of failure

48 In all cases of failure the Candidate must be examined *de novo*. If a Candidate fails in *Seamanship*, he will not be re-examined *until after a lapse* of six months. Whether the whole or part of this period must be served at sea must depend upon the subjects in Seamanship in which the Candidate failed, but what amount (if any) of sea service will be required will be left to the discretion of the Port Officer, subject, however, to revision by the Government should they see fit.

49. The Examiners in making out their Report on Form Exn. 14 should state what amount (if any) of further sea service the Candidate must perform, and they should also insert this information under Division H in Form Exn. 2.

50. If he fails three times in *Navigation* he will not be re-examined until after a lapse of three months from the date of the *last failure*.

Certificate of a lower grade.

51. If a Candidate has failed in his Examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade

52. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled, for re-examination for the higher grade of Certificate he will be required to pay a further full fee.

53. If a Candidate fails for bad spelling or writing, he will not be re-examined until after a lapse of at least three months.

Fees.

54. Candidates for examination, in making their application on Form Exn 2, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause, except failure to pass the colour tests, not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as

* *See* Appendix D.
† *See* Appendix E.

the case may be, they will be allowed to again present themselves for examination for a Certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination.

55. The fee for examination must be paid to the Port Officer. In any case in which a Candidate offers money to any other officer, and in any place but in the Port office, the Candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be again examined for twelve months.

Fees to be paid by applicants for examinations. 133.

56. If a Candidate fail in his examination, *no part of the fee he has paid will be returned to him.*

57. The fees are as follow:—

For "Home Trade Ships."

	Rs.
Mate	6
Master	12
For the renewal of any certificate ...	5

General Instructions to Examiners and Candidates.

Instruments used in examinations.

58. All instruments necessary for use in the examinations are supplied by the Government.

Prohibited books and papers.

59. Before commencing the examination, the tables or desks must be cleared of all scraps of paper or books that are not used in the examination, and care should be taken that the candidates do not bring into the examination room any book, paper, document, or memoranda of any description whatever. No person whatever should be allowed in the room during the time of examination, but those whose duties require them to be present.

60 No instructors will be allowed on the premises.

Candidates not to leave premises during examination.

61. Candidates will under no pretence whatever be allowed to leave the premises while the examination is proceeding. If a candidate has occasion to visit the retiring room, he will only be allowed to do so on the completion of the paper on which he may be engaged, when he will be required to enter in a book kept for the purpose the exact times of his leaving and returning to the examination room. When only a few candidates are under examination, two persons will not be allowed to leave the room at the same time.

Position of Candidates at examination

62. Candidates should be so placed as to prevent one copying from the other, and no communication whatever between the Candidates should be allowed.

Blotting paper.

63. If any blotting paper is allowed, it should be black; and when the first examination paper is issued, each Candidate should be furnished with a piece, which must be returned to the Examiner upon the completion of the last paper.

How examination papers should be issued.

64. The examination papers should be issued to the Candidates in half sheets only, and one at a time. This will prevent a Candidate from spreading out the sheets on the table in an apparently careless manner, but so as to enable his nearest neighbour to look over and copy, or examine the problems It will also enable the Examiner to look over and report upon the work on one half sheet, while the Candidate is at work upon another, and so on. When the errors are not too numerous, or when they are not from ignorance of the subject, the incorrect problems may be returned to the Candidate for correction, but in no case should the errors be pointed out by the Examiner, neither should any marks be made on the correct work of the problem, which would at once indicate how far or to what extent the work is correct. Should the problems be returned to the Examiner the second time incorrect, this would be a failure; and as the time allowed is considered ample for working out the papers carefully, this rule is expected to be strictly observed.

In certain cases problems may be corrected on morning following examination day.

65. When from the large number of the candidates it may be found impossible to look over the work on the day of examination during the office hours, an hour in the morning of the following day may be allotted for the purpose of correcting the problems, but

in no case should a Candidate have his problem returned to him for correction after he has made the second attempt.

Viva voce examination.

66. In the *viva voce* examination a reasonable time should be allowed for the Candidate to give his answers. No assistance should be given or leading question put.

Minor corrections.

67. All outstanding or minor corrections should appear in the margin of each problem paper; also on the chart papers Exn 9C and Exn. 9D; and unless all these corrections appear on the papers of the Candidate, they will not be considered complete.

Examination to commence with that for Second Mate.

68. In every case the examination, whether for Only Mate, First Mate, Master, is to commence with the problems for Second Mate.

Problems required as tests.

69. Examiners should bear in mind that the problems to be performed are required as tests, and for the purposes of an Examination, and not for sea-going or practical purposes alone.

70 The Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

Time allowed for Problems and Writings.

71. The rules as to the amount of time allowed are as follow: —

72 *Candidates for Home Trade Mate's Certificates* must complete the whole of their arithmetical and chart papers within *eight hours*, and Candidates for Home Trade Masters' Certificates within *ten hours*

Additional time allowed in special cases.

73 Punctually at the expiration of the prescribed time all the papers should be called up, whether completed or not, and if not completed the Candidate will be declared to have failed, unless the Examiner see fit to lengthen the period in any special case. If, however, the period is lengthened in any case, the special circumstances of that case, and the reasons for lengthening the period, together with the time allowed, must be reported to the Government by the Examiner. in the column for "remarks" on the Form Exn. 14. It should be noted that the periods prescribed in the foregoing paragraphs are not intended to include the time occupied by the *viva voce* part of the examination

74. It is anticipated that but few of the Candidates for Certificates of Competency will require the whole of the time herein allowed for completing their examination in navigation; and ample time has been prescribed, so that Candidates may perform their work in a careful, clear and legible manner, and to the entire satisfaction of the Examiners.

Supplementary viva voce Examination on written Papers.

75. An impression prevails in regard to the examination of Masters and Mates, that so long as a Candidate can commit to paper correct answers to the various questions requiring written answers (*e. g., Forms Exn. 4a, Exn. 7, Exn. 9a, Exn. 9c, Exn. 32*, &c.), no matter how indicative the answers may be of their having been learnt off by rote *only*, the duty and responsibility of the local Examiners are at an end, and that they have no power or authority to reject a Candidate should his written answers be correct.

76. Lest, therefore, such an impression should prevail, the Government wish to point out that Candidates for Certificates of Competency are not only expected to give correct written answers, which may merely be learnt off by rote, but they are expected to possess an intelligent knowledge of the various subjects prescribed in the Regulations, particularly as regards the important subject of the Deviation of the Compass.

77. This result may be easily attained by the Examiner putting a few *viva voce* questions to the candidate as the papers are brought up for inspection, or at any subsequent time if more convenient. The oral questions (suggested by the printed questions and the answers given) should be such that the Examiner may satisfy himself that the candidate possesses a real knowledge of what he has written, and should be confined strictly to the subjects of the printed questions. Should the candidate then exhibit ignorance of the subjects, the Examiner (who is in a position to judge of the real knowledge the man before him posses es) should deal with him at his discretion, notwithstanding that the candidate may have written all the answers correctly by rote.

78. When an Examiner finds it necessary to fail a Candidate in this *supplementary viva voce* test, a memorandum containing the particulars of the points on which the candidate was ignorant, *i.e*, *the identical questions and the identical answers given*, must in each case be attached to his examination papers, when forwarded in the usual course to the Port Officer, or the particulars may be set forth by the Examiner in the margins of the candidate's papers in red ink.

79. If the Candidate passes he will receive the Form Exn 16. upon which the Government will issue the certificate to the Candidate, whose testimonials, &c., will be returned at the same time. Form Exn 16. Completion of examination.

Special Notice to Candidates.

80. The attention of Candidates is specially called to the following Regulations:—

81. Candidates are required to appear at the examination-room punctually at the time appointed.

82. Candidates are prohibited from bringing into the examination-room books, paper, or memoranda of any kind whatever. The slightest infringement of this regulation will subject the offender to all the penalties of a failure, and he will not be allowed to present himself for re-examination for a period of three months.

83. In the event of any Candidate being detected in defacing, blotting, writing in, or otherwise injuring any book or books belonging to the Government, the papers of such Candidate will be detained until the book or books so defaced be replaced by him He will not, however, be at liberty to remove the damaged book, which will still remain the property of the Government.

84. In the event of any Candidate being discovered referring to any book or memoranda, copying from another, or affording any assistance or giving any information to another, or communicating in any way with another, during the time of examination, he will subject himself to all the penalties of a failure, and he will not be allowed to be examined for a period of six months.

85. No Candidate will be allowed to work out his problems on a slate or on waste paper.

86. No Candidate will be permitted to leave the room until he has given up the paper on which he is engaged.

87. Any Candidate who may be guilty of insolence to the Examiner or of other misconduct will render himself liable to the postponement of his examination, or, if he has passed, to the detention of his certificate for such period as the local Government may direct.

General.

88. Certificates of competency will be made and issued in the forms hereunto annexed.

89. Every Certificate of Competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the Certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

90. No application from the holder of a certificate granted by the Government of Bombay to be examined for a certificate of the same legal value shall be entertained.

APPENDIX A.

EXAMINATION OF MASTERS AND MATES IN THE INTERNATIONAL CODE OF SIGNALS.

Instructions to Examiners.

The Government desire to direct the attention of the Examiners to the principal points connected with the International Code of Signals (which is to be treated as a subject in Navigation) as to which Candidates for Examination should be questioned in order to qualify for Certificates of Competency.

The Government would recommend to the Examiners a perusal of the *Report of the Signal Committee of* 1855 (which will be found at the commencement of the Signal Book), and also the *first few pages of the Book*. The information therein given will be found sufficient to make the Examiners theoretically acquainted with the characteristics of the Code, and the advantages it claims to possess over other Codes, and will enable them to appreciate and urge upon Candidates for Examination the facilities which this System of Signalling affords for easy and rapid communication.

The "comprehensiveness" and "distinctness" of the International Code are its chief recommendations.

The form of the Hoist generally indicates the nature of the Signal made, so that an observer can at sight understand the character of the Signal he sees flying.

The annexed plate gives examples which illustrate this.

The Examinations should tend to elicit a knowledge of the distinctive features of the Code above alluded to.

With this object the Examiners should make the 2, 3, and 4 Flag Signals on the Frame board which is furnished for the purpose (*always taking care first to show the Ensign and the Code Pennant at the Gaff*),* questioning the Candidates as to the distinguishing Forms of the respective Hoists, *(see Plate annexed)*, which will be indicated according as a Burgee, or a Pennant, or a Square Flag, is uppermost.

The Candidate ought to know how to find in the Signal Book the communication or the inquiry he desires to make, and how to make the Signal. The Signal to be made should *invariably* be sought for by the Candidate in the Vocabulary and Index, Part II, and never in Part I

The Candidate ought to know how to interpret a Signal.

The Examiner should place a Signal on the Frame board, and vary the Signal by showing a 2 or 3 Flag Signal, or a "Geographical" or a "Vocabulary" Signal, or the name of a Merchant Ship or a Ship of War.

The two latter signals would not of course be found in the Signal Book. The Candidate ought to point them out in the *Code List of Ships*.

A Candidate ought to be able to read off a Signal at sight, so far as to name the Flags composing the Hoist.

He ought to know the use of the Code Pennant, and of the Pennants C. and D., "Yes" and "No."

The Candidate should be practised in the use of the Spelling Table, by being made to spell his own name, or some word not to the Vocabulary of the Code:

A knowledge of the Distant Signals should be required of the Candidate, their object and the mode of signalling by the Distant Code, which will be found at the end of the Signal Book.

For this purpose two Black Balls, two Black Square Flags, and two Black Pennants will be furnished with the Frame board, and the Candidate should be required to make one or two Distant Signals, and to read off one or two made by the Examiners.

The Ball being the distinguishing symbol of the Distant Signal, any Pennants or Flags of the Code may be employed in conjunction with it, irrespective of colour. The Black Pennants and Flags are merely sent as showing best in the light background of the Frame board.

The Examiners should be careful to ascertain that the Candidate possesses a knowledge of the Distress Signals which came into operation November 1st, 1873.

Semaphores.

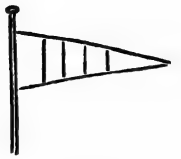
A plate at the end of the Signal Book explains the method by which the arms of the Semaphore are made to represent by their position (up, down, or horizontal) the three symbols used for Distant Signalling, viz., a Flag, a Ball, or a Pennant. Before making Signals with the Semaphore, the Black Disc with the white rim should be placed on the top of the Semaphore Mast, as it properly forms a part of the Mast itself.

The International Code is used on board Her Majesty's Ships, and it has been adopted by all the principal maritime powers for their Imperial as well as for their Mercantile Navies.

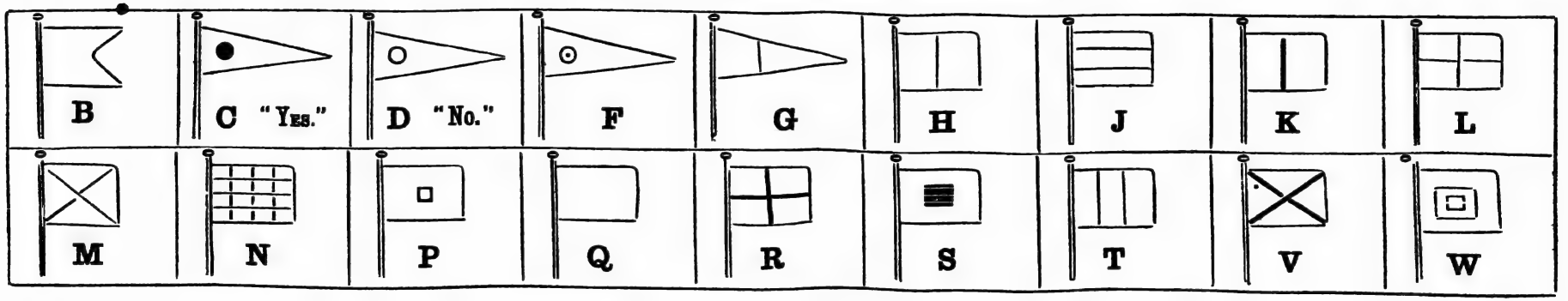
Note.—The International Code of Signals, with the Code List, is prepared by the Registrar-General of Shipping and Seamen, and may be had of the Publishers, Messrs. Spottiswoode & Co.,

* The object of this is, of course, to distinguish the Signals from those of another Code.

FLAGS OF THE INTERNATIONAL CODE OF SIGNALS.

"CODE SIGNAL" AND  "ANSWERING PENNANT."

N.B.—When used as the "Code Signal," this Pennant is to be hoisted under the "Ensign;" when used as the "Answering Pennant," where best seen.



The following examples will serve to illustrate how the *form of a Hoist* will usually denote the *nature of the Signal* made :—

ONE FLAG.	TWO FLAGS.			THREE FLAGS.		FOUR FLAGS.			
	BURGEE uppermost, "ATTENTION" Signals.	PENNANT uppermost, "COMPASS" Signals.	SQUARE FLAG uppermost, "URGENT" Signals.	General Signals.		BURGEE uppermost, GEOGRAPHICAL Signals.	PENNANTS C,D,F uppermost, NATIONAL VOCABULARY.	PENNANT G uppermost, Names of MEN-OF-WAR.	SQUARE FLAG uppermost, Names of MERCHANTSHIPS.
C "YES."	B D	F T	N C	K G P	P M V	B D T N	D V O H	G S M W	J M C Q
D "NO."	WHAT SHIP IS THAT?	W. BY S.	IN DISTRESS, WANT ASSISTANCE	ENGINE BROKEN DOWN.	CALL FOR ORDERS OFF—.	FALMOUTH.	WHAT SHIPS HAVE YOU SPOKEN?	"MARLBOROUGH" SCREW—131 GUNS.	"MARCO POLO," No. 6025.

54, Gracechurch Street, London, and the principal Booksellers at the various ports

The Official Mercantile Navy List and Maritime Directory published for the use of Merchants, Shipowners, Shipbrokers, and others, may be obtained in like manner; price 12*s*.

APPENDIX B.

REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND STEERING AND SAILING RULES ISSUED BY THE BOARD OF TRADE.

NOTICE.

The Board of Trade have had their attention drawn to the necessity of a more strict examination of applicants for Certificates of Competency in their knowledge of the regulations for preventing collisions at sea.

In order that the rule of the road at sea may be better understood, and that a uniform system of examination may prevail, the Board of Trade have issued the following catechism.

This catechism has received the approval of the Trinity House and Admiralty in England, and of the Council of the Admiralty of France.

The Board of Trade attach very great importance to a thorough knowledge of the steering and sailing rules on the part of every applicant for a Certificate of Competency, and a thorough examination on the part of the Examiners.

All applicants for examination, whether for certificates as masters or mates, are to be examined as to their knowledge of the steering and sailing rules each time they present themselves for examination.

Questions suggested by the following heads of examination are to be asked in addition to, and are not to supersede, any other questions proper and necessary to be asked by the Examiner.

The following questions need not be adhered to literally by the Examiner, and are not all to be asked; but the substance of the leading questions should be asked, and all that are asked should be satisfactorily answered, before an applicant is reported to have passed his examination. The Examiner should make such a selection of the questions as each case appears to him to require.

THOMAS GRAY,

Board of Trade, *Assistant Secretary.*
Marine Department.

HEADS OF EXAMINATION IN REGULATIONS RESPECTING LIGHTS AND FOG SIGNALS AND IN THE STEERING AND SAILING RULES.

1. What light or lights are required by the regulations to be exhibited by sailing vessels at anchor?

One light only, viz., a white light.

2. What light or lights are required by the regulations to be exhibited by steam-ships at anchor?

The same as for sailing vessels

3. Where is the anchor light to be exhibited?

Where it can best be seen. It must of course be placed where there is the least possible chance of obstruction from spars, ropes, &c., &c.

4. To what height may the anchor light be hoisted?

It may be exhibited at any height where it can best be seen, not exceeding 20 feet above the deck.

5. What is the description of the lantern containing the anchor light required by the regulations?

A globular lantern of not less than eight inches in diameter.

6. In what direction or directions must the anchor light show?

It must show a clear, uniform, and unbroken light, visible all round the horizon.

7. At what distance must it be visible?

At least one mile.

8. What is the number of lights required by the regulations to be carried by sailing ships when under weigh at night?

Two side-lights, and to have in readiness a white light or a flare-up light to show from their stern to any vessel overtaking them.

9. Of what colour are these lights, and how are they to be placed on board the ship?

A green light on the starboard side, and a red light on the port side.

10. What description of light must be shown from the sides of sailing vessels under weigh; and over how many points of the compass, and in what directions, and how far, are they required to show.

Each light must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass;

so fixed as to throw the light from right ahead to two points abaft the beam on the starboard and port sides respectively; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

11. What lights are they to carry when being towed at night?

The same.

12. Are the side-lights required to be fitted with screens; and if so, of what length, and how?

Yes, on the inboard side; at least three feet in length, measuring forward from the light. They are to be so fitted as to prevent the coloured lights from being seen across the bows.

13. What is the number of lights required by the regulations to be carried by steam-ships when under steam at night?

Three lights, and to have in readiness a white light or flare-up light to show from their stern to any vessel overtaking them.

14. Of what colour are these lights, and how are they to be placed on board the ship?

A white light on or in front of the foremast at a height above the hull of not less than 20 feet; and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth. A green light on the starboard side, and a red one on the port side.

15. Over how many points of the compass, in what direction, and how far, is the foremast-head light of a steamer required to show?

Over 20 points, viz, from right ahead to two points abaft the beam on both sides. It must be of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

16. Are the side-lights required to be fitted with screens; and if so, of what length?

The green and red lights are to be fitted with screens on the inboard side, extending at least three feet forward from the light, as in the case of sailing vessels.

17 Over how many points of the compass, in what directions, and how far, are the coloured side lights of steamers required to show?

The side-lights must be so constructed as to show a uniform and unbroken light over an arc of the horizon of 10 points of the compass, on each side of the ship, *i.e.*, from right ahead to two points abaft the beam on the starboard and port sides respectively, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles.

18. What description of lights are steamers required by the regulations to carry when they are not under steam, but under sail only?

Side-lights only, the same as sailing vessels.

19. What exceptional lights are to be carried by small sailing vessels in certain cases?

Whenever, as in the case of small vessels during bad weather, the green and red side lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessel, ready for use; and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

20. What description of lights are pilot vessels required to carry when on their stations on pilotage duty?

A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

21. What description of lights are pilot vessels required to carry when not on their station on pilotage duty?

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

22. What lights are open boats and fishing vessels of less than 20 tons net registered required to carry when under way and not actually engaged in fishing.

Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

23. What lights are fishing vessels and fishing boats of 20 tons net register, or upwards, required to carry when under way and not actually engaged in fishing?

They must carry similar lights to those of other ships when under way.

24. What lights are steam trawlers of 20 tons gross register, or upwards, whilst actually engaged in trawling, and not being stationary, required to carry?

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast head light, similar to those carried by other steamships; or

(*b*) They must carry on or in front of the foremast head, and in the same position as the white light which other steamships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry.

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast head a lanthorn having a green glass on the starbord side and a red glass on the port side, so constructed, fitted, and arranges that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed at to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance of not less than 3 miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28 If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signal, as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing-ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over than other, not less than three feet apart, and of such a charater as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with

an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 13 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard.

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz:—

One short blast to mean "I am directing my course to starboard."

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern"

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing or it may be a steam trawler end on, or within two points of being end on, to me.

49. If you see a green, or a red, light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance fog, &c.; or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing trawler engaged in trawling (1) under one arrangement of lights heading so that her side-lights are obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail?

53. How do you know?

Because there is no white mast-head light

54 If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and red ball on it and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B. Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away

in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56. If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W. N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case, and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the positions indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light or a red light to a green light, the ships carrying the lights are, crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to star board If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70 A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When by the rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75. Is there any general direction in the steering and sailing rules; and if so, what is it?

Yes, it is this: that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights, or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———)?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of the regulations, who is to be deemed in fault for the collision?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers?

Yes; unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*), of Article 10, which apply only to British fishing vessels.

83. Do you know where the present regulations are to be found?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision?

Yes.

85. What is the penalty for default?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship?

It is.

88. Why?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

REGULATIONS FOR PREVENTING COLLISIONS AT SEA, ORDER IN COUNCIL OF 11TH AUGUST 1884.

PRELIMINARY.

Art. 1. In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

RULES CONCERNING LIGHTS.

Art 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass, so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the part side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a*) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line one over the other, not less than three feet apart, in front of, but not lower than, her foremast head, three black balls or shapes, each two feet in diameter.

(*b*) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular laterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c*) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

(*d*) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessels, ready for use: and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent a collision, in such a manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at a height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall

carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the cost of Europe lying north of Cape Finisterre:—

(*a*) All fishing vessels and fishing boats of 20 tons not registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of th vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing, with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*c*) A steam-ship and a sailing ship, when not under way, shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

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* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art. 23. In obeying and construing these rules due regard shall be had to all dangers of navigation; and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation.

Art. 25. Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art. 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with

respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute;
2. The International Code signals of distress indicated by N. C.
3. The distant signal, consisting of square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING-VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side: and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than lanthorn the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885. SAILING TRAWLERS OF ANY TONNAGE.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night

with a clear atmosphere for a distance of at least 2 miles ; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 3) seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

AIDS TO MEMORY IN FOUR VERSES, BY THOMAS GRAY.

1. *Two Steam-ships meeting.*

When both side lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN to GREEN—or, RED to RED—
Perfect safety — Go ahead !

3. *Two Steam-ships crossing*

Note.—This is the position of greatest danger : there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear ;
To act as judgment says is proper :—
To Port—or Starboard—Back,—or, Stop her !

But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do,
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out ;
In danger, with no room to turn,
Ease her, stop her, go astern.

14th October 1867.

APPENDIX C.

DISTRESS AND PILOT SIGNALS.

M. S. Act 1873.

The following sections, together with the schedules referred to therein, of the " Merchant Shipping Acts, Amendment Act, 1873," relate to Signals of Distress and Signals for Pilots. (*See also " Regulations for preventing Collisions at Sea. Article* 27.)

Signals of distress.

18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots.

19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this A

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals.

20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.—SIGNALS OF DISTRESS.

In the day time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the daytime :—

1. A gun fired at intervals of about a minute ;
2. The International Code signal of distress indicated by N C ;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.—SIGNALS TO BE MADE BY SHIPS WANTING A PILOT.

In the day time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day time, viz:—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX D.

EXAMINATION IN CHART.

FOR ALL GRADES WHERE THE CHART IS USED (INCLUDING "HOME TRADE" CANDIDATES).

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart, * whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemispheres.

---

1. Using deviation [card] [curve] † No. find the course to steer by compass from to ; also the distance.

Answer.—Compass course .
Distance .
Variation .
Deviation .

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude .
Longitude .

3. With the ship's head as above, a [point] [light-house] bore by compass , and after continuing on the same course miles, it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude .
Longitude .
Distance .

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature .
Date .
Chart used .

ADDITIONAL FOR MASTERS (INCLUDING "HOME TRADE" CANDIDATES).

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a

* The terms "true" and "magnetic" are used for the sake of brevity, and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" points of the compass respectively.

† A candidate for a Master's Certificate is expected to use either a card of deviations, or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him

current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course

Distance

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9 C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

APPENDIX E.

DEVIATION OF THE COMPASS.

(For Masters of Home Trade Ships.)

[The Applicant must answer in writing, on paper given him by the Examiner, all the following questions, numbering his answers to correspond with the numbers of the questions.]

1. When taking a Meridian Altitude, how do you know when the sun is on the Meridian; or, in other words, when it is noon?
2. How does the sun bear when on the meredian of an observer in these latitudes (Home Trade Limits)?
3. What do you mean by deviation of the compass, and how is it caused?
4. Having determined the deviation, how do you know when it is easterly, and when westerly?
5. Supposing the sun when on the meridian bore by your compass————what would be the deviation of that Compass for the direction of the ship's head at the time, the variation given on the Chart being————?
6. How could you find the deviation of your Compass when in port, or when sailing along a cost?
7. Name some suitable objects by which you could readily obtain the deviation of your Compass, when sailing along the coasts of the Channel you have been accustomed to use?
8. The bearing of two objects when in a line with each other was found on the Chart to be———— ——magnetic; but when brought in a line on board they bore ————by your Compass; required the deviation of your Compass for the direction of the ship's head at the time?
9. What means are there for checking the deviation of your Compass by night?
10. Supposing the North Star (*Polaris*) bore———— ———— by your Compass, what would be the deviation (approximately) of that Compass for the direction the ship's head at the time, supposing the variation given on the Chart to be————?
11. Do you expect the deviation to change? if so, state under what circumstances?
12. What is meant by variation of the Compass, and what is the cause of it?

APPENDIX F.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follow :—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1.
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

(*d*) Cards, five of each as follow :—

1. White
2. Black.
3. Red.
4. Pink.*
5. Green.
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards.)

In conducting the examination by daylight the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the day-light test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap
4. The result of the examination should be noted and recorded in each case.

Examination by Artificial light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn; and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so, what colour ?

The slide with the ground glass should then be put int› the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c. ; or to name card No. 7 as red, green, or yellow ; or glass No. 2 as green blue, or yellow ; or glass No. 5 as red, pink, salmon, &c. ; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight ; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MASTER.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Master in the*_____*service, I do hereby, in pursuance of Act No. I of* 1859 *of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

Given *under my* Hand and Seal,

this_____ *day of*_____ 18____.

By order of the Government of Bengal,

Under-Secy. to the Govt. of Bengal.

No. of Certificate

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at Calcutta on the*_____*day of*_____18____.

Registered.

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of* _____ *Mate in the* _____ *service, I do hereby, in pursuance of Act No. I of* 1859 *of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

By order of the Government of Bengal,

Given under my Hand and Seal,

this _____ day of _____ 18 .

Under-Secy. to the Govt of Bengal.

No. of Certificate

Bearer _____

Date and Place of Birth _____

No. of Register Ticket _____

Signature _____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

Issued at Calcutta on the _____ *day of* _____ 18___.

Registered,

Port Officer of Calcutta.

NOTICE.

Candidates applying to be examined for Certificates of Competency are hereby informed that no remuneration or gratuity whatever, either directly or indirectly, can be received by any Officer, Messenger, or Servant of the Government, except the lawful fees stated in the Regulations, which are to be paid to the Port Officer when the Candidate makes his application.

Any Officer, Messenger, or Servant of the Government accepting any present or gratuity is liable to summary dismissal, and any Candidate so offering money will be subject to the penalty mentioned in para. 16 of the Regulations relating to the examination of Masters, or para. 35 of those relating to the examination of Engineers and Engine-drivers as the case may be.

Every case in which an applicant has paid, or pays hereafter, any fee or gratuity to any Officer, Messenger, or Servant, on any pretence whatever, other than the prescribed fees for examination, should be reported to the Local Government.

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal.

P. W. (Marine) Dept.

REGULATIONS

RELATING TO THE

EXAMINATION OF MASTERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, 1884, no inland steam-vessel having engines of eighty nominal horse-power or upwards is allowed to proceed on any voyage unless her master possesses a first class master's certificate granted under the Act, or a master's certificate granted under Act I of 1859 (*for the amendment of the law relating to merchant seamen*), or the Merchant Shipping Acts, 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power is allowed to proceed on any voyage unless her master possesses a second class master's certificate granted under the Act, or a certificate of the higher grade of the nature referred to above:

Provided that a steam-vessel having engines of under eighty nominal horse-power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act

Any person who having been engaged to serve as master of an inland steam-vessel proceeds on any voyage in that steam-vessel as master without being at the time entitled to and possessed of the certificate required under the Act, and any person who employs any person as such master without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees*.

NOTIFICATION.

No 27 Marine, dated Calcutta, the 31st January 1890

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to masters of inland steam-vessels

W. B BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose arrangements have been made for holding examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined.

2. The examinations will be held by the Port Officer and one or more other examiners to be appointed by the Government from time to time They will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined.

3. Candidates for examination must make their application upon the appropriate form (Exn. 2*b*), which must be filled up at the Port Office. The Exn 2*b* properly filled in, together with the candidates' testimonials and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials of character, conduct, and ability required

4 Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the candidate can be examined, it is desirable that they should be handed in, together with the Forms Exn 2*b*, as early as possible.

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners and of British seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificates as to Age.

6. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their certificate shall be endorsed to the effect that they are valid only for vessels manned and officered entirely by Asiatics.

Colour Tests.

8. The Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

9. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

10. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2*a*, and pay a fee of one rupee.

11. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

12. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

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* *See* Apendix A.

13. The application of a *Candidate who is presenting himself for Examination for a Master's Certificate* must be made on Form Exn. 2*b*. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination

14. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

15. A candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If the fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

16. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn 2*a*.

17. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination for the Certificate of the higher grade.

18. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

19. Should be ultimately fail to pass the Examination, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

20. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency as First Class Masters.

21. *Examination in Colours.*—All candidates for certificates of competency must first be examined in colours.*

22. A candidate for a certificate as first class master of inland steam-vessels must be not less than twenty-four years of age, and must have served as a second class master in charge of a steam-vessel for not less than three years, or he must be not less than twenty-two years of age, hold a certificate of competency as second mate granted under Act I of 1859 (for the amendment of the law relating to Merchant Seamen) or the Merchant Shipping Acts 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869. and have served as Mate of an inland steam vessel or master of a river flat for not less than one year.

23. Each candidate will be examined apart, and *viva voce*, in each and all of the following subjects :—

(1)—The rules of the road.
(2)—The management of river steamers under all contingencies.
(3)—The tide table.
(4)—Storm signals.
(5)—The provisions of Act VI of 1884, and the rules framed under sections 21, 29, 50 and 51 of the Act.

Qualifications for Certificates of Competency as Second Class Masters.

Examination in Colours.—All candidates for certificates of Competency must first be examined in colours.*

24. A candidate for a certificate as second class Master of an inland steam-vessel must not be less than twenty-one years of age and must produce satisfactory certificates of

* See Appendix A.

sobriety and intelligence, and that he has served three years as Mate of a small steam-vessel or as chief helmsman of a steam-vessel of over 80 horse power, and shall be examined *viva voce* as to his knowledge in the following subjects:—

(1)—The rules of the road.
(2)—The management of small river steamers.
(3)—Storm signals.

Failure.

Re-examination in case of failure.

25. If a candidate fails, he will not be re-examined *until after a lapse* of three months from the date of such failure.

Certificate of lower grade.

26. If a candidate has failed in his examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade.

27. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled so to do, for re-examination for the higher grade of certificate he will be required to pay again the full fee.

Fees.

28. Candidates for examination, in making their application on Form Exn. 2*b*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials as the case may be, they will be allowed to again present themselves for examination for a certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected and not allowed to be again examined for twelve months.

30. If a candidate fails in his examination, *no part of the fee will be returned to him.*

31. If the candidate satisfy the examiners as to his knowledge of the prescribed subjects, and generally as to his competency to command an inland river steamer, they shall certify the same to the Government, which will then grant a certificate to the candidate

Form Exn. 16. Completion of examination.

32. The fees are as follows:—

	Rs.
First Class Master	16
Second Class Master	6
Renewal of a certificate	5

General.

33. Certificates of competency of first and second class masters shall be made and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*.) A lanthorn having in it a lamp in which kerosine is to be burnt.
(*b*.) A side having ground glass in it.

(*c.*) Nine slides, each having a coloured glass in it. The colours are as follows :—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

(*d.*) Cards, five of each as follow :—

1. White.
2. Black.
3. Red.
4. Pink.*
5. Green
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards.)

In conducting the examination by daylight the examiner should do it in three ways :—

1. The cards should be mixed up. The examiner should then hold up each card separately and ask the candidate to name the colour, and if the candidate does so without hesitation he is to be regarded as having passed the daylight test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn ; and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so what colour?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c. ; or to name card No. 7 as red, green, or yellow ; or glass No. 2 as green, blue, or yellow ; or glass No. 5 as red, pink, salmon, &c. ; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black by daylight ; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown) the may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

FIRST CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr._____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of First-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such First-class Master.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

Under-Secy. to the Govt. of Bengal.

*This*_____*day of*_____ 18____.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

*Issued at Calcutta on the*_____*day of*_____18____.

Registered,

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

SECOND CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr. _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of Second-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such Second-class Master.*

Given *under my* Hand and Seal,

By order of the Government of Bengal,

This _____ *day of* _____ 18—.

Under-Secy. to the Govt. of Bengal.

No. of Certificate

Bearer _____ *son of* _____ *by caste* _____.

Date and Place of Birth, showing Village, Thana and District* _____

Residence, showing Village, Thana and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

No. of Register Ticket _____

Signature _____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence.

REGULATIONS

RELATING TO THE

EXAMINATION OF ENGINEERS AND ENGINE-DRIVERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, an inland steam-vessel having engines of eighty nominal horse power or upwards cannot proceed on any voyage unless her engineer possesses an engineer's certificate granted under the Act or the Indian Steam Ships Act, 1884, or the Merchant Shipping Acts, 1854 to 1883, or to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power can proceed on any voyage unless she has as her engineer a person possessing an engine-driver's certificate granted under the Act or the Indian Steam-Ships Act, 1884, or a certificate of the higher grade of the nature referred to above: Provided that a steam-vessel having engines of under eighty nominal horse power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act.

Any person who has been engaged to serve as Engineer or engine-driver of an inland steam-vessel proceeds on any voyage in that steam-vessel as engineer or engine-driver, as the case may be, without being at the time entitled to, and possessed of, the certificate required under the Act, and any person who employs any person as engineer or engine-driver without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees*.

NOTIFICATION.

No. 28 Marine, dated Calcutta, the 31st of January 1890.

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engineers and engine-drivers of inland steam-vessels.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates of competency granted to persons who pass requisite examinations

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined

2. The examinations will commence early in the forenoon and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined

Application how to be made

3. Candidates for examination must make their application upon Form Exn. 3, which must be filled up at the Port Office. The Exn. 3 properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required

4. Testimonials of character, and of sobriety, experience, ability, and good conduct for at least the 12 months immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an employer; if at sea, by either the master, managing owner, chief or superintending engineer.

5. As such testimonials and discharges may have to be verified before the candidates can be examined, it is

desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners

6. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age.

7. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

8. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel.

Verification of services, &c., by Articles.

9. Services which cannot be verified by proper entries in the articles of the ships in which the candidates have served cannot be counted.

Qualifications for Certificates of Competency as Engineers.

Qualification of candidate for Inland Engineer's Certificate.

10. A candidate must be not less than twenty-two years of age:—

(*a*) He must have served an apprenticeship to an engineer, of three years in England or five years in India, and must prove that during the period of his apprenticeship he has been employed on the making and repairing of engines. Or, if he has not served an apprenticeship, he must prove that for not less than three years in England or five years in India he has been employed as a journeyman or masterhand in some factory or workshop on the making or repairing of engines. In either case he must also have served two years thereafter in the engine room of a steamer of over 80 horse power, or as a certificated engine-driver in a steamer of less than 80 horse power.

Or failing the above service he must have served as a certificated engine-driver in charge of a steamer for not less than four years.

(*b*) He must be able to give a description of boilers, and the methods of staying them, together with the use and management of the different valves, cocks, pipes, and connections.

(*c*) He must understand how to correct defects from accident, decay, or other causes and the means of repairing such defects.

(*d*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*e*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*f*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total breakdown.

(*g*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*h*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

Qualifications for Certificates of Competency as Engine-drivers.

11. Candidates for examination must make their application upon the appropriate Form (Exn. 3*b*), which must be filled up at the Port Office.

12. A candidate for a certificate of competency as engine-driver must have attained the age of twenty-two years.

He must have served an apprenticeship of at least four years if in India or three years in the United Kingdom, and have served as assistant engineer for one year on a steamer of not less than 80 horse power.

Or he must have been three years principal serang or tindal in the engine-room of a steamer, or have been for three years in charge of the engine of a factory or mill under a European manager or engineer, as well as one year principal serang or tindal or assistant engineer in the engine-room of a steamer under a certificated engineer.

13. He must have the testimonial shown in Appendix B filled up by the engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

14. He must pass a *viva voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

15. He must be able, if required, to show his practical qualifications by one week's trial in a steamer after fulfilling the other tests to which he will be subjected.

General Rules as to Examinations.

16. All books necessary for the use of candidates under examination will be provided by the Government, and applicants will not be permitted to take into the examination room any book, paper, document, or memoranda of any description whatever; and, subject to the provisions referred to hereafter, they will also not be allowed to work out their problems on a slate or on waste paper

Candidates not to take books, &c., into examination room

17. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners. These additional sheets must be attached to, and form part of, the examination papers.

18. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination; and no part of the fees he may have paid for examination will be returned to him.

Punishment for breaking rules.

19. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the examiners may substitute other data or another question.

Leaving examination room.

20. All applicants presenting themselves for examination for certificates of competency as engineers will be required to give written answers to eight out of a list of ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency" These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling.

Questions from Form Exn. 15*a*.

21. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

22. Examiners may add to their *viva voce* questions on the practical management of steam engines and boilers any of those contained in Exn. 15*a*.

* *See* Appendix A

23. If at the expiration of the time allowed the candidate has worked out correctly the whole of the questions set to him, and given satisfactory answers in the *viva voce* examination, he will be declared to have passed.

24 If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *viva voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiner that the applicant is competent to take charge of engines, he will be declared to have passed

25. In other cases he will be declared to have failed.

(Exn. 15) 26. A report of the examination, and the examination papers, will be forwarded to the Government on the Form (Exn. 15).

Notification of having passed will be given to successful candidates. (Exn 16) 27. If the candidate passes, he will receive the Form Exn 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c, will be returned at the same time. It is therefore important that the port of destination of the certificate should be the same on both the Form Exn. 16 and the Form Exn. 2. If circumstances should make any alteration necessary, the examiners should see that it is made in both forms, otherwise delay in the issue of the certificate may be caused.

Fees.

Fees to be paid by applicants for examination 28. Candidates for examination, in making their application on Form Exn. 3 or Exn. 3*b*, will be required to pay the examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

30. If a candidate fails in his examinations, *no part of the fee he has paid will be returned to him.*

31. The fees are as follow :—

	Rs.
Engineers	12
Engine drivers	10
Renewal of a certificate	5

Failure.

32. If the applicant fails in the *viva voce* or practical part of the examination, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service afloat. If he fails in arithmetic or drawing only, he may come up again at any time. Engine-drivers may be examined *de novo* after six months, if the past examination showed that they might reasonably be expected to qualify.

General.

33. Certificates of competency of engineers and engine-driver shall be made out and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

Form Exn. 15a.

ELEMENTARY QUESTIONS FOR THE FIRST EXAMINATIONS OF ENGINEERS FOR CERTIFICATES OF COMPETENCY.

To Engineer Examiners.

Examiners will require all candidates to fill up a form, Exn. 15b., of which a copy is enclosed, and they will forward the same to the Government along with the report of the examination.

The arithmetical questions for Engineers and the *viva voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences.

Exn. 15b.

Port	Class for which examined
Date	Candidate's name

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the Engine-room at sea, and in what capacities?

D With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the Engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *See* the book of Elementary Questions. The questions need not be written: only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS.

1.

What parts of an engine are generally made of wrought-iron ?

2.

What parts of an engine are generally made of cast-iron ?

3.

For what parts of an engine is steel sometimes used ?

4.

What parts of an engine are generally made of brass or gun-metal ?

5.

Where is "white metal" sometimes used ? On account of what property possessed by it is it adopted ? What objection is there to its more general use ?

6.

For what parts is Muntz metal sometimes used ? Is it malleable ? For what properties is it valued ?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel ?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other ?

9.

What are the different properties of cast-iron, of wrought-iron, and of steel.

10.

What is meant by the terms "breaking stress," "proof stress," "safe-working stress" ?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron ?

12.

Tempering steel : how is it done, and in what order do the colours come ?

13.

What is case-hardening ?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short" ?

15.

What is meant by "welding" ? Which of the common metals can be welded ?

16.

The expansion of metals by heat : give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot ? When the material is steel, what precautionary treatment of these plates is afterwards necessary ?

18.

What is double riveting ? In what parts of cylindrical marine boilers is double riveting employed ? In which of the shell seams is it most necessary ?

19.

What is "caulking," and how are seams prepared for caulking ?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans?

21.

What strain per square inch is allowed on boiler stays?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected?

24.

How are boiler tubes fixed? What are "stay tubes," and how are they secured?

25.

Where is it generally that boiler tubes leak? How is this defect repaired? What are the causes of this leaking?

26.

What are the causes of cracked tube plates? Where are the cracks situated? How are they repaired?

27.

What is the difference between a "dry uptake" and a "wet uptake"? Which requires most repair? Why? Where have you seen a wet uptake?

28.

What is a superheater? What is its construction? What valves are on it? There is sometimes a gauge glass on it; what is that for?

29.

What parts of a marine tubular boiler are first injured by shortness of water?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used?

31.

Priming: to what causes is it attributed? What means are applied to prevent it? What evils may be produced by it?

32.

Funnel draught: what makes it? What checks it?

33.

Flame is sometimes seen at the top of the funnel: what causes this appearance? Is it beneficial or is it detrimental? Why so?

34.

A blast pipe: what is its construction? Where is it placed For what is it used?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted?

36.

Blow-off cocks are sometimes fitted with a spanner guard: for what purpose is this? Describe how the guard is formed?

37.

Test cocks or water-gauge cocks: where are they placed? At what heights? Must the cocks themselves be at those heights? What provision is made for cleaning these cocks? Should they ever become choked? When there are no test cocks, how is the height of the water ascertained?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation.

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses. There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear and the engine still moving?

63.

What are "double beat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64.

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers.

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface-condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that when opened admits steam from the slide valve casing to the exhaust port: what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing. Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in which under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used. What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action; to what part of the engine is it connected; whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed? In that case are the feathering levers on the striking face or on the back of the float? When the paddle shaft has an outer bearing, how is the eccentric made?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats? Are they all lubricated? With what?

103.

What is a "Disconnecting Paddle Engine."? At what place is the disconnecting effected? How is it accomplished? In which of the cranks of a disconnecting engine are the crank pins fixed?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines? For what steamers are disconnecting paddle engines frequently employed?

105.

What are expansion joints? Where are they necessary? What attention do they require? Of what should the working surfaces be made?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied? How is this prevented in the construction of a steam trunion pipe for an oscillating engine?

107.

Describe an oil cup with a syphon worsted. How is the worsted arranged? How is it cleaned? How far down the tube does it extend?

108.

Describe a thrust bearing; which of the surfaces wears? Why are there sometimes a number of oil tubes for one thrust bearing?

109.

What parts of a screw shaft are generally covered with brass? Why is this necessary? About what thickness is the brass?

110.

What is the stern tube or screw shaft pipe? Why is a pipe of such a length required? Of what is it made? How is it fixed at each end?

111.

What is a lignum vitæ bearing? How is the wood fitted? Where is such a bearing generally used?

112.

How is a screw propeller fixed on the shaft? What means are used to prevent its getting loose at sea?

113.

Where are sluice valves placed? What large sluice valve is there in almost all screw steamers? From what position should this valve be worked? Why so? What attention should it receive?

114.

With a condensing engine; what valves or cocks are on the skin of the ship in the engine-room and in the stokehole?

115.

What are the necessary fittings of a marine boiler?

116.

With a surface condensing engine what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action. To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected.

121.

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion?

134.

What is the explanation of the economy of the surface condenser?

135.

What is the construction of a surface condenser? Of what are its tubes made? How are they fixed? How are they kept tight? What is done with a split tube?

136.

Where do surface condensers foul? How are they cleaned?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation?

139.

How can the formation of black smoke be prevented? Describe smoke preventing apparatus.

140.

What is meant by "circulation" in a boiler, and what are the results of defective circulation?

141.

What means are sometimes adopted to improve the circulation in a boiler?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler?

143.

Describe a ship's side air-pump discharge valve, in what respects does it sometimes differ from a common stop valve, and what attention does it require?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks?

146.

What is the measure of a horse-power? How is indicated horse power ascertained?

147.

Has "nominal horse power" a fixed meaning? What is the use of this expression? What is generally taken as the measure of one horse power nominal?

148.

What is "back pressure" in a cylinder? About how much is it in each of the cylinders in your last steamer? Is excessive cushioning ever a trouble under certain conditions in modern engines? Say when and why and in which cylinder this occurs.

149.

What is meant by "speed of piston"? About how much is the speed of piston in modern marine engines?

150.

What is "atmospheric pressure"? What is its average amount? What instrument tells this amount?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction. Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge, in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer, its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs, and (5) of strain about 150 lbs, also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point ?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, get short of water, although the feed valve is open its proper amount; to what causes might this be due ?

179.

Of what are furnace bars generally made About what thickness are they at top ? About what space is between them ? Whether are the bars put further apart for Newcastle coal or for Welsh coal ?

180.

Which burns faster, Newcastle coal or Welsh coal ? Which is the flaming coal ? Which makes most smoke ?

181.

About how many tons of steam coal will be burnt per day in our furnaces, each 3′ 0″ wide, and of about the usual length ? On what grounds do you say so ?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone ? On what grounds do you say so ? What percentage more coal would be required to propel the same steamer one knot faster ?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work ? On what grounds do you say so ?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam ? Which will take place earlier, and which later, distinguishing between the up stroke and the down stroke ?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke ?

186.

A screw propeller is getting loose, it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room ?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft ?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts ?

APPENDIX B.

TESTIMONIAL.

I hereby certify that has served with me in the engine-room of as principal serang or tindal for a period of , during which time he has discharged his duties to my entire satisfaction.

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a river steamer having engines not exceeding 80 *nominal horse-power.*

Date (*Signed.*)

No. and description of Certificate.

ANY Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applicant's elligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINEER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To_____

Whereas *it has been reported to the Lieutenant-Governor of Bengal that you have been found duly qualified to fulfil the duties of Engineer of an Inland Steam-Vessel, I do hereby, in pursuance of Act VI of* 1884, *grant you this CERTIFICATE OF COMPETENCY.*

Given *under my* Hand and Seal,

By order of the Government of Bengal,

Under-Secy. to the Govt. of Bengal.

This_____ 18____.

No. of Certificate of Competency

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINE-DRIVER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been reported to the Lieutenant-Governor of Bengal that you have been found duly qualified to fulfil the duties of Engine-Driver on an Inland Steam-Vessel having engines of under 80 nominal horse-power, I do hereby, in pursuance of Act VI of 1884, grant you this CERTIFICATE OF COMPETENCY as Engine-Driver.*

Given under my Hand and Seal

By order of the Government of Bengal,

This _____ day of _____ 18__.

Under-Secy. to the Govt. of Bengal.

No. of Certificate

*Bearer*_____ *son of*_____ *by caste*_____

Date and Place of Birth showing Village, Thana and District*_____

*Residence showing Village, Thana and District*_____

*Height*_____

*Personal description, stating particularly any permanent marks or scars*_____

*No. of Register Ticket*_____

*Signature*_____

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Any Engine-Driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence.

[REGISTERED No. 29.]

No. 7 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, FEBRUARY 12, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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ANNUAL AWARD OF A MEDAL TO THE MOZUFFERPORE ZILLAH SCHOOL.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 5th February, 1890.

RESOLUTION.

READ—

A letter from the Commissioner of Patna, No. 180G, dated the 22nd March, 1889.

Read also—

A letter from the Director of Public Instruction, No. 2023, dated the 5th April, 1889.

IN commemoration of the visit of the Lieutenant-Governor to Sursund in the district of Mozufferpore, Mussamut Dulhin Golab Kuer and her son-in-law, Babu Damodar Deb Narain Singh, have paid into the Mozufferpore Treasury the sum of Rs. 900 for investment in Government securities as an endowment for the annual award of a medal, to be designated the "Bayley Medal," to the student of the Mozufferpore Zillah School obtaining the highest marks in Sanskrit at the University Entrance Examination of each year. The Lieutenant-Governor is pleased to accept the donation, and tenders his thanks to the donors for their liberality. The Magistrate of Mozufferpore will be the administrator of the fund.

ORDER.—Ordered, that a copy of this Resolution be forwarded to the Commissioner of Patna for information and for communication to the donors, and to the Director of Public Instruction for information.

Ordered also, that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

INCIDENCE OF TOLLS IN THE CIRCULAR AND EASTERN CANALS.

PUBLIC WORKS DEPARTMENT, BENGAL,—IRRIGATION.

RESOLUTION.

No. 238 *I A.*

Dated Calcutta, the 11th February 1890.

READ—

(1) Memorial from the Bengal National Chamber of Commerce, dated 17th November 1887.
(2) Letter No. 2455T., from Agent, Bengal Central Railway, dated 24th November 1887.
(3) Bengal Government Notifications Nos. 349-350, dated 17th September 1889.
(4) Letter from Manager, Eastern Bengal Railway, No. 821, dated 19th October 1889.
(5) Bengal Government Notification No. 382, dated 21st October 1889.
(6) Letter from Secretary, Young Men's Association, Senhati, dated 6th November 1889.
(7) Letter from Messrs. Hoare, Miller and Company, No. 904, dated 10th December 1889.
(8) Bengal Government Notification No. 455, dated 17th December 1889.

In regard to the complaints which have been made against the tolls charged on boats using the channels included in the "Circular Canal Route," the Lieutenant-Governor has arrived at the conclusion that it is advisable to enquire into the system of measurements and incidence of tolls charged under the rules and notifications now in force.

2. *It is resolved* therefore to appoint, for the above purpose, a Commission consisting of—

Major McArthur, R E. ... . *President.*
Mr. W. C. Boyce, District Traffic Superintendent, Eastern Bengal Railway ... ... } *Members.*
Baboo Sitanath Roy, Honorary Secretary, Bengal National Chamber of Commerce ... ... }

3. The enquiry will embrace the following points—

1. Present system of boat measurement, and whether it can be improved in the direction of (*a*) greater accuracy of gross tonnage or (*b*) ascertaining net tonnage.
2. The incidence of existing rates on the goods carried in the Canals; whether the rates should be revised; and whether differential rates should be introduced or not.
3. The boundaries within which the tolls are levied.
4. The practicability of levying tolls on the basis of "challans" of the merchants or others whose goods are carried.

ORDER.—Ordered that copies of this Resolution be sent to the President and members named to serve on the Commission for information and guidance, and to the Revenue, Appointment and Financial Departments of this Government, the Board of Revenue, the Commissioner of the Presidency Division, and the Examiner of Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal,
P. W. Dept.

RESOLUTION ON THE REPORT OF THE COMMITTEE APPOINTED TO ENQUIRE INTO THE ADMINISTRATION OF THE SONE CANALS.

No. 206I.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

Dated Calcutta, the 4th February 1890.

RESOLUTION.

READ—

1. Resolution No. 1884I., dated Calcutta, the 11th of November 1887, by the Government of Bengal, Public Works Department, appointing a Committee to enquire into the Administration of the Sone Canals.
2. Report, dated the 13th March 1888, of the Committee appointed to enquire into the Administration of the Sone Canals.
3. Note, dated the 14th of January 1890, by Colonel C. W. I. Harrison, R.E., Chief Engineer, Bengal, on the above-mentioned report.
4. Minute, dated the 15th June 1888, by the Hon'ble F. M. Halliday.
5. Letter, dated the 25th June 1888, from the Board of Revenue, Lower Provinces.
6. Letter, dated the 30th June 1888, from Mr. L. H. Milne, of Behea, Shahabad.
7. Note, dated the 10th July 1888, by the Hon'ble Mr. Nolan, on the report of the Committee appointed to enquire into the Administration of the Sone Canals.
8. Letter No. 849I., of date the 31st August 1888, from Mr. A. B. Power, Collector of Shahabad.
9. Note, dated the 14th of December 1888, by Mr. C. W. Odling, Superintending Engineer, Sone Circle, on irrigation operations from the Sone Canals during the *kharif* season of 1888-89.
10. Note, dated the 4th of February 1889, by Mr. H. Luson, C.S., upon crop experiments in canal-irrigated *dhan* taken in the Sone Circle during the *kharif* season of 1888-89.
11. Report, dated the 20th of March 1889, by Mr. H. Luson, C.S., upon certain points connected with the administration of the Sone Canals.
12. Pamphlet by Baboo Kandhji Sahai, B.A., B.L., on certain aspects of the Sone irrigation question, Dinapore, 1889, received with a letter, dated 26th June 1889.
13. Revenue report, dated the 13th September 1889, by the Superintending Engineer, on the Sone Canals for the year 1888-89.
14. Note, dated the 12th of January 1890, by Mr. C. W. Odling, Superintending Engineer, Sone Circle, on irrigation operations from the Sone Canals during the *kharif* season 1889-90.
15. Note, dated the 14th January 1890, by Mr. C. W. Odling, Superintending Engineer, on Drainage Works carried out and still required in connection with the Sone Canals.

The Lieutenant-Governor, when on tour in Behar in November 1887, received a memorial, signed by certain leading residents of the Shahabad and Patna districts, complaining of the system under which lands irrigated by the Sone Canals were assessed and the water-rates collected. Sir Steuart Bayley travelled by road through the part of the area irrigated in which complaints were most numerous and by steamer down the Buxar Canal. On a full consideration of the allegations made in the memorial and those contained in separate letters received from influential landholders, His Honour came to the conclusion that it was desirable to appoint a Committee to examine into the working of the entire system, with a view to provide remedies, where possible, for admitted defects, and to improve the rules and, if necessary, the law under which the system was administered.

2. The Committee, which was composed of Mr. H. J. S. Cotton, C.S., as President, with Mr. C. W. Odling, M.E., M.I.C.E., and Rai Jai Prokash Lall, Bahadur, as Members, met at Arrah on the 1st of December 1887, and, after local investigations extending over those parts of the Shahabad, Patna and Gya districts traversed by the canals, submitted a report, dated the 13th March 1888, signed by all the Members of the Committee, but accompanied by

dissents by Mr. C. W Oaling and Rai Jai Prokash Lall, Bahadur, on material points. The report may be taken to be in the main that of Mr. Cotton, the President, who is, however, in regard to most of the recommendations supported by the Departmental member of the Committee.

3. The report of the Committee is clear and well arranged and accompanied by a series of appendices containing a record of the evidence, written or oral, on which the conclusions drawn and recommendations made are based. Very considerable delay has occurred in dealing with the report. The recommendations made were submitted to the criticism of various local officers, but important action was taken at once to carry out some of the Committee's proposals concerning which there was no room for doubt. A series of practical experiments touching on the question of yield of crops and indirectly on that of profit obtainable from irrigation were carried out under the superintendence of Mr. Luson. The Chief Engineer has paid two extended visits to Shahabad to watch the working of the system at different seasons, and he has now recorded the note quoted at the head of the Resolution. In that note he has explained the origin of the system pursued, and has noticed* the changes which have been introduced since the Committee was appointed—changes which suffice to justify the appointment of the Committee, and which show how beneficial their principal recommendations have been. The note brings together on various points the facts and considerations justifying the action of the Department where it has been impugned, and after explaining the important effect which the use of canal water has had in substituting paddy cultivation for that of *rabi* crops over a large area, and the bearing of this fact on the main questions at issue, it discusses the proposed alterations and explains how far, in the opinion of the Chief Engineer, the recommendations of the Committee are in themselves feasible and desirable as the law now stands.

* Paragraphs 17, 24, 56, 64, 69, 73 and 116.

4. The area irrigable by the Sone Canals, in the *kharif* season at least, is practically measured by the water supply procurible. Some 1,300,000 acres are commanded, of which it would be possible, with the supply of water ordinarily available in the river Sone, to irrigate 300,000 acres in the *kharif* and probably the same area in the *rabi* season. When the canals were in course of construction it was found that the lands commanded were about equally divided between *kharif* and *rabi* crops, and it was not anticipated that any change in the nature of the crop would follow the advent of irrigation with canal water. It was, in fact, assumed that of the area irrigated half would be cultivated with *kharif* and half with *rabi* crops. Indeed, the fear expressed by Sir G. Campbell in 1871 was that there would not be a sufficient supply of water available for the irrigation of the winter crops, and he urged that the canal should be designed with reference to the *minimum* supply procurable from the river Sone in that season in the driest of years. It was expected that a higher water-rate would be obtainable from *rabi* than from *kharif* cultivation.

5. The canals and distributaries were ordinarily run on the ridges, the lands bordering which, being high, were usually cultivated with winter or *rabi* crops. So soon as irrigation from the canals was commenced, there was a rapid change in the character of the cultivation. Wherever canal water is regularly available *rabi* crops have disappeared, and rice has taken their place. In the opinion of a landholder peculiarly well qualified to judge on the point, nothing but the absolute refusal of canal water for paddy would compel the ryots now to forego the cultivation of that crop. This change, which in the earlier years of canal irrigation was in process of development, added much to the difficulties necessarily experienced by canal officers in introducing a satisfactory system of irrigation.

6. An endeavour was in the first instance made to follow, as far as the law admitted, the system adopted in the Upper Provinces. There no written application for water is necessary, but, an outlet once fixed, cultivators are, subject to a system of rotation as regards supply, permitted to take water much as they please. The discharge of the outlets of a village are fixed and ordinarily do not admit of more than one-seventh of the cultivated area being under *kharif* crops requiring canal water. If a greater proportion is so cultivated it is at the risk of the villagers, who are consequently careful to limit the cultiva-

tion within the area for which the supply allowed is in dry years, with the utmost economy, sufficient.

In Bengal no attempt was made to limit the area to be irrigated in any village, and whilst written applications were required, but little care was taken to restrict the supply of water to the areas included therein. The departmental arrangements failed to provide against waste and against the water finding its way to the lands of other persons than those who had applied for it. The cultivators themselves took little thought in the matter, but relied on the supply which was enough for rice transplantation being equally sufficient for maturing the crops originally watered, irrespective of rainfall. If no rain fell in the *hatiya*, not only was more water required for crops already irrigated, but there was a further demand for rice sown on low lands, which then also looked to the canals for a supply sufficient to save the crop.

Whenever the supply of the outlet did not suffice for the entire area requiring irrigation, the complaint was of 'deficiency and irregularity of supply.' If rain fell whilst the crops were being or had lately been watered for the first time, disputes arose as to whether water-rates were leviable. The objection was emphasized when the fields assessed were not included in a written application since the case then became one of 'unauthorized irrigation.'

7. The recommendations made by the Committee involve not only changes in the system of administration followed, but reductions on various grounds in the sums charged as water-rates. It is argued in the report that the experiments yearly made as to the yield of crops irrigated by the canals and other means cannot be relied on, that the productive powers of certain descriptions of soil deteriorated after canal water had been used for a few years, that crops produced by the aid of canal water are inferior compared to those yielded on lands irrigated from *aharas*, and that the natural irrigation facilities formerly available had been destroyed or injured by the canals. Those were points which could only be satisfactorily investigated by an officer who could devote his whole time to the detailed investigations necessary and under whose directions a complete series of crop experiments could be carried out.

8. The services of a covenanted civilian, Mr. Luson, were made available. That officer had previously acted as Joint-Magistrate of Shahabad, and was at the time of his deputation Officiating Collector of Gya: so that he already possessed some knowledge of the districts traversed by the canals, and was therefore at once, when relieved on the 21st October 1889, able to commence the detailed work required. His report is dated the 20th March 1889. There was a total failure of the *hatiya* and *chitra* rains in 1888—in fact there was practically no rain from the 7th of September to the 29th of November, so that the strain on the canals was as great as it is possible that it can ever be in future, affording an excellent opportunity for determining the area they can satisfactorily irrigate under the most unfavourable circumstances. There has again in 1889 been a partial failure in the autumn rains, so that the result of two years' irrigation operations, in which the most prominent errors originally committed had been corrected, can be considered. Colonel Harrison spent October 1888 and May 1889 in studying the subject on the spot.

9. There were, however, certain defects brought to light by the Committee which admitted of reform at once. The chief of these were the failure of canal officers to exercise sufficient control over the supply of water through the outlet, and to take effective measures to prevent irrigation without permit. With the approval of the Chief Engineer, the Superintending Engineer, on the 21st of March 1888, issued circular orders pointing out in what respects an alteration in practice was required, and also in what points sufficiently minute attention had not been paid to the law and the rules. Canal officers were directed, when at head-quarters, to receive complaints daily and to register each complaint separately, though over 1 might be received on the same day from the same village and raising objection to the demand for identical causes. Instructions were given that five-year leases were not to be granted unless proper village channels actually existed when the lease was sanctioned, and that even the deposit of funds for their construction would not be accepted as a sufficient compliance with the rule, since from various reasons there might be delay in completing them. Directions were given

that the position and size of the outlets from which water was to be supplied should be endorsed on the permit. No alteration was to be made in the capacity of any outlet during the currency of the lease. The orders regarding unauthorized irrigation were of a nature to almost entirely stop assessments under that head. It was required that 'benefit' should be established, and also that the person by whose act or neglect the unauthorized irrigation occurred could not be identified. Assessment was prohibited where canal servants were at fault, or where unauthorized irrigation was effected from *aharas* filled or partly filled with canal water. The responsibility of the Canal officer for the supply through the outlet was affirmed, and permits were directed to be refused where the blocks proposed to be leased were so situated that unauthorized irrigation was probable. It was directed that a discharge through the outlet sufficient only for the area to be irrigated should be arranged for. Attention was invited to the desirability of obtaining the signature of the *lambardar* to the shudkar or register of irrigation when the first watering was completed.

These orders were sufficient to rectify the chief defects pointed out by the Committee, and their enforcement has almost put a stop to complaints regarding 'unauthorized irrigation,' in respect of which most feeling had been shown. They suffice to justify the work of the Committee and the utility of most of its recommendations. Moreover, though the rainfall during the two following seasons was scanty, the supply of water was, with few exceptions, admittedly sufficient. Thus the causes of the complaints made before the Committee regarding the proceedings of assessing officers were completely or nearly completely removed. The Collectors concerned took similar precautions to prevent the continuance of abuses on the part of the collecting staff.

10. The point in which the greatest interest was manifested is the rate to be charged for rice irrigation. The present charge for annual leases is Re. 1-14, while for leases for five years the charge is Re. 1-4 per bigha or Rs. 2 per acre, and it is recommended by the Committee that this latter rate shall be reduced to Re. 1 per bigha and that of the annual lease shall also be modified. In a pamphlet on the subject, written by the Secretary of the Landholders Committee, lately issued, this reduction is described as being "the most important, and without which, in the words of the Commission, no improvement will be accepted as an adequate outcome of the results of the Commission." The grounds on which the reduction is advocated are those described in paragraph 7 of this Resolution, and are thus summarized in paragraph 276 of the Report:—

> In deciding this question, all the circumstances of the Sone irrigation must be considered. It must be remembered that canal irrigation is unpopular. It is alleged that Sone water is injurious to the soil, to man and beast. It must never be forgotten that an old system of irrigating from aharas and pynes prevailed before its introduction, which the ryots declare was more beneficial to them than the present system which has superseded it. It is admitted that well irrigation is more beneficial to the crops than canal water. The country is said to be water-logged; the health of the people is said to have suffered. The vigorous and often injudicious assessment of water, combined with the energetic realisation of the existing rates has embittered both zemindars and ryots.

11. It is probable that the Committee were right in supposing that, at the time when they made their enquiry, there was considerable bitterness of feeling both in regard to the assessment of unauthorized irrigation (which has since for practical purposes been abandoned), and in regard to the rigour with which, owing to arrears having been allowed previously to accumulate to a most injudicious extent, collections had recently been enforced. This bitterness has, owing to the reforms recently introduced, now subsided, and a careful consideration of all the circumstances in the light of Mr. Luson's enquiry of subsequent experience, and of the opinions of the local officers, convinces the Lieutenant-Governor that in the paragraph above quoted the Committee were to some extent misled upon questions of fact, and that the recommendations which followed are consequently not such as the Government should accept.

So far from canal irrigation being unpopular, the area irrigated in the *kharif* season of 1888-89 was only circumscribed by the quantity of water available. During the current year, 1889-90, the demand has been practically of the same character. Despite the lapse of five-year leases for 65,500 acres, the area so leased has increased. The area for which leases have been cancelled, though no single application has been refused, is altogether insignificant. In the face

of these facts it is difficult to see how canal irrigation can still be considered to be unpopular.

The experiments in regard to *good* crops conducted by Mr. Luson, by Messrs. Burrows, Thomson and Mylne, and the Canal officers, show that crops exceeding 30 maunds of paddy per acre are produced from all varieties of soil, including *kewal*, which was stated to be injured by canal water. These crops were produced on land which had been under irrigation almost since water from the canals was available. The estimate by an independent officer of the *average* crop of paddy on the irrigated land in 1888-89, when at the most critical time there was no rain to assist the canals, was $18\frac{7}{10}$ maunds, or two maunds per acre of paddy in excess of the results arrived at by the annual series of experiments carried out by Canal officers, and affords strong corroborative proof of their substantial accuracy. It is at least doubtful whether well irrigation is more beneficial than canal irrigation except for opium and barley; and the consideration has no weight in regard to *kharif* crops, which form two-thirds of those irrigated from the canals: *kharif* crops are not irrigated from wells.

12. In the preceding paragraph reference has been made to facts and figures which conclusively show that canal irrigation is not unpopular and that it is not injurious to the soil. Its advantages compared with irrigation from *aharas* will now be briefly adverted to. There are doubtless places where irrigation from *aharas* cannot be so conveniently effected since the canals came into operation, but there are also others, far more numerous, where, provided the *ahara* is kept in repair, the cultivator can still exercise a real choice in the matter. As stated in the quotation contained in paragraph 43 of the Chief Engineer's note, the constant and ample supply of water available from the end of June to October presented advantages over the uncertain supply from *aharas*, which failed either in the beginning or close of the season. The facility offered for early sowings should not be lost sight of. Even where, as in the exceptional case of Belgaon, an efficient *ahara* provided with masonry escapes existed, the cultivators, who are themselves the contractors and who have used canal water since the beginning, have hitherto preferred to subject themselves to a heavy yearly tax for the convenience and regularity of canal irrigation. There are in the three districts few *aharas* so efficient as the one at Belgaon, and the records of the criminal courts and the experience of former Civil officers show that there was no more frequent cause for riots and affrays than quarrels over *aharas* and *pynes*. If, on the whole, it is advantageous for cultivators occupying lands commanded by such an *ahara* as that at Belgaon to take canal water, how much greater must be the benefit where, as in the majority of cases, the *ahara* has a small gathering ground and is commonly inefficient because it is not kept in repair owing to the expense which must be incurred.

The water contained in the *aharas* is stagnant, and therefore like canal water, practically pure. It does not, even for barley and opium crops, possess the superior qualities which, it is not denied, for these crops only can be claimed for well water, especially where the well is old.

The *aharas* certainly impound water, which should not be the case with properly aligned canals, and must have considerable influence on the water-logging of which complaint is made. Malarious fever is as rife in the unirrigated portions of Gya and Shahabad, more especially Baboonah, as in those irrigated, and the canals are certainly of use in supplying man and beast with pure drinking water for which no charge is made.

13. Of the reasons alleged by the Committee for reducing the water-rate, many have little real bearing on the point. If the system is at fault, it should be altered where defective; if individuals are to blame, they can be punished; but, even if true, the allegations made are not relevant to the point at issue. The public health is a matter of the highest importance, and it is right that such remedial measures as are practicable should be taken, but it does not follow that special advantages should be given to that portion of the community who use canal water and pay water-rates. It is certain that, except in a few cases, the fact of canal water being available more than compensates for injury which occasionally may have accrued to individual land-holders owing to *aharas* on their property being rendered less efficient, and in probably more numerous cases the extra supply of water poured over

the country has increased the efficiency of *aharas* belonging to the same or other proprietors.

14. In the pamphlet, written by Baboo Kandhji Sahai, it is even alleged that, compared with 1874, the import of piece-goods into Shahabad has fallen off, and that this fact indicates a deterioration in the material condition of the people, the result, it is implied, of canal irrigation. The assertion is made on the strength of statistics extending over four months only. A reference to the table, contained in paragraph 138 of the Chief Engineer's note, giving complete figures for 13 years, shows that within this period the imports have doubled. The increase has been very steady throughout this period with two exceptions only: about the year 1882 there was a slight falling off, and in 1886-87 an abnormal bound upwards.

15. The considerations enumerated in the quotation from the Committee's report in paragraph 10 above might have weight in determining the question whether a system of canal irrigation should be introduced for the first time or not, but they have little bearing on the question of what price should be charged for water when such a system has for years been in full operation. The water-rate to be charged should clearly be fixed as nearly as possible at the sum which, taking one year with another, the cultivator finds it profitable to pay. The experience gained, which is fully set forth in the Chief Engineer's note, shows conclusively that existing rates, so far as *kharif* crops are concerned, are not too high, and that it would be an injustice to the general tax-payers to burden them with the deficiency in the public revenue which would result from any lowering of the rates mentioned.

16 It is at the same time recognised that any increase in rate which might possibly be justified by the increasing demand for canal water would at the present time be unwise as calculated to lead to undesirable friction with the cultivators who have become habituated to its use. His Honour has, therefore, determined to keep the rate for *kharif* irrigation on long leases at its present figure, Re. 1-4 per *bi ha* or Rs. 2 per acre, but to extend the term of the leases from five to seven years and to give an undertaking that no increase shall be made in this rate in respect to leases entered into before the close of the year 1895-96. This favourable rate will, however, only apply where the channels are in good order and the waste of water small For annual leases the rate will be Re. 1-14 per *bigha* or Rs. 3 per acre, as at present. There will be cases where the cultivators will be unable, for some time, to comply with the conditions which it is necessary should be fulfilled if Government is to be bound to supply water for so long a term as seven years, and to meet these it is contemplated, though the Lieutenant-Governor is not in favour of differential rates, to charge Re. 1-9 per *bigha*, but not to give leases for more than three years.

17. Modifications all in favour of the cultivator will be made in the case of *rabi* leases, involving a reduction of from 20 to 40 per cent., in the hope that the supply of water now running to waste in that season will be more generally utilized. The arrangements under which water is given for sugarcane will be revised with the view of more precisely defining the conditions under which water is supplied for that crop, and where the consolidated yearly rate is paid remissions will be allowed if the crop fails, whether such failure was due to the deficiency of canal water or not. Provision will be made for the supply of water by volume in October to unleased areas should a surplus be available after all leased areas have been fully watered. Under certain conditions, canal water will be supplied to *aharas* between November and March.

18. The rules will be amended providing that in the *kharif* season water will only be supplied to associations of ryots cultivating blocks of land to which water can be supplied without the probability of unauthorized irrigation occurring. The selection of the block, under certain restrictions, will, as recommended by the Committee, be left to the canal officer, who will be allowed to exclude land not commanded by the canal without special arrangements or not irrigable by flow. The canal officer will be required to specify in detail, in the permit, the size of the outlet and the approximate discharge, and to be responsible for the supply through the outlet. The discharge through the outlet will be mainly determined with reference to actual experience in 1888, when there were no autumn rains. The *tatil* will be limited to five days after ten days' consecutive supply.

The assessment of lands irrigated beyond the boundaries of the leased area will be absolutely and entirely prohibited, though power will be reserved to cancel leases, on the joint authority of the Superintending Engineer and Collector, where water is habitually wasted or misused. Where unauthorized irrigation occurs, not by water being abstracted from leased areas, but through a village channel being cut or a criminal offence committed, the Canal officer will be permitted, with the previous sanction of the Collector, to impose water-rates under section 79 of the Act. In this case, and in this case only, where the facts will be placed before an independent tribunal before any measurement is made, will any assessment for unauthorized irrigation be allowed in the *kharif* season.

The Committee recommend that no change shall be made in respect to the present method of assessing *rabi* irrigation, regarding which complaints were not received. This recommendation is accepted.

19. The non-assessment of unauthorized irrigation materially affects the subject of objections to demand. The cases in which most exception is taken to canal officers dealing in the first instance with complaints are those in regard to unauthorized irrigation. In no others are appeals ordinarily preferred. The remainder relate to errors in demand, and the decision arrived at is usually at once acquiesced in by the complainant. Many of them refer to changes in occupiers disposed of by alteration statements, the preparation of which will in future be entrusted to the Deputy Collector. Nearly half the complaints made are at once decided in favour of the complainant, and the demand statement is now generally corrected before it is sent to the Collector for realization. It would obviously be a hardship in these cases to require the complainant to prefer his objection at a different office from that in which the demand statement is prepared. But it is only in the sense of giving the sub-divisional canal officer an opportunity of correcting his assessment that the Lieutenant-Governor proposes to leave the disposal of objections with canal officers. The appeal will be direct from the sub-divisional canal officer to the Collector. It will, however, be required that reasonable expedition shall be used in preferring the complaint in time to admit of a satisfactory investigation being made. The *lambardar* and subordinate canal officers will further be required to bring to notice cases in which objections are likely to be taken, so that such may be enquired into before the crop is cut or the demand statement prepared.

20. In regard to minor matters the recommendations of the Chief Engineer are accepted. The cost of road crossings for village channels will in future be borne by Government. Minor distributaries will be provided in lieu of long village channels, and leases for land at too great a distance from the distributaries will not be accepted. The Superintending Engineer will be required to specifically define the areas within which water is available for irrigation in various seasons. He will also be required to advise the Collector in the case of appeals regarding village channels, or when a permit is refused owing to the unsuitability of a block. The joint and separate liability clause in long-term leases—an arrangement to which great objection was taken by the Committee—will be abolished. Selected landholders will be supplied every year with a copy of the Revenue Report, and invited to submit any suggestions they may desire to make for the improvement of the administration for the consideration of Government. The magisterial powers already conferred on canal officers will not be withdrawn, but in future all Engineers will be required to pass an examination before being so vested. The desirability of prompt orders being passed in cases where extraordinary remissions appear to be called for is recognized, and the Superintending Engineer in this respect will be vested with limited powers to be exercised without previous reference to Government. Water will, as already indicated, be supplied during certain months of the year to *aharas* on payment. The dates for the payment of water-rates have been fixed so as to be convenient to the cultivators, and payment by instalments in certain cases allowed.

21. The measures narrated in the two preceding paragraphs have as their main object the protection of the cultivator. But whilst desirous of securing to the ryot a full supply of water at proper times and on reasonable considerations, it is necessary that means shall be taken to secure payment of water-rates justly due. There are cases of villages where realizations are never made with-

out coercive processes of one kind or other, and power will be taken to shut off the supply of water to such villages altogether until all arrears are paid up, and in extreme cases to prohibit further supplies unless half the amount which will become due as water-rates is paid in advance. These extreme measures will be adopted only with the joint approval of the Collector and the Superintending Engineer

22. On the important question of transferring the execution of certificates from the Special Deputy Collector to the regular Revenue establishment, the Lieutenant-Governor finds a great difference of opinion between the Collector and the Board on this subject. He has no doubt that the Board's view is in accordance with the intention of the law and should be carried out. The Board will be asked what changes in establishment are necessary for giving effect to the decision, and how the delay, &c., anticipated by Mr. Power can best be obviated.

23. The changes noted above will not be introduced without some loss to Government. The charge for water under long leases is much less than that charged under annual leases, and the growing popularity of the former has already had a marked effect in diminishing the supply of water available for the latter, and thus reducing the assessments. The lower rates for *rabi* will probably in the end be recouped by the increased area regularly irrigated; but for two or three years at least there will on this account be a diminution in the receipts.

The Lieutenant-Governor accepts the opinion expressed by all the local officers that in some shape or other fees must be paid for the duties performed by the *lambardars*, and also the recommendation contained in the Chief Engineer's note as to their amount and the duties for which they are to be payable.

Circle officers will be replaced by zilladars permanently appointed, provided no increase in the expenditure hitherto incurred on collecting establishment is thereby caused. It appears to His Honour that, despite the extra work thrown on the collecting establishment by the powers it is proposed to vest in the Deputy Collector to sanction alterations, and, in certain cases, remissions in demand, the spread of five-year leases involving to a large extent fixity of demand should admit of some reduction in the establishment formerly necessary. Some saving will result by the substitution of fixed fees for a percentage in cases where putwaris are called on to render assistance in the matter of assessments.

Drainage works, estimated to cost Rs. 2,82,271, have been sanctioned from 1884-85 to date, and investigations in regard to works still reported to be required are in progress. A statement showing all cases in which it is possible that drainage may have been interfered with is contained in Appendix I to the Chief Engineer's note; in but few of the instances mentioned have remedial works not been carried out, and in these cases investigations are in progress.

The magisterial powers vested in some of the canal officers have admittedly been but sparingly exercised; and though the Lieutenant-Governor is, on general principles, opposed to permitting canal cases to be dealt with except by the ordinary tribunals, he is unwilling to weaken the hands of canal officers in times of great demand for water.

24. The rules under Act III (B C.) of 1876 at present in force will be amended in the sense indicated in this Resolution and forwarded to selected officers for opinion. The replies received will be considered and draft rules published in the *Calcutta Gazette* for general criticism before being enacted under section 99 of the Act.

25. The Committee make certain proposals for changes in the law. These are mainly that an application for water by a large majority of interests in a given block should bind the minority; that the law should bind the zemindar in *bhaoli* tenures to share, either directly or indirectly, the burden of irrigation charges; that the water-rate should be declared an encumbrance on land of the same character as rent: in other words, that it should be binding on the applicant's successor in interest. These three recommendations have the Lieutenant-Governor's concurrence, but legislation to give effect to them requires the approval of the Government of India, and the question of revising the law on these as well as on other minor points will be separately dealt with.

26. It will be seen that the great bulk of the Committee's recommendations have been accepted either wholly or in part; that in some the object

aimed at has been secured by a modification of the proposed methods, and only in regard to the rates charged for *kharif* irrigation has the Lieutenant-Governor been obliged altogether to reject their recommendation. The work of the Committee has not been unfruitful; it has, on the contrary, been of the highest value, and the thanks of the Lieutenant-Governor are due to Mr. H. J. S. Cotton, C.S., the President of the Committee, and to Mr. C. W. Odling, M.E., M.I.C.E., and Rai Jai Prakash Lall, Bahadur, Members, for the care with which they have carried out their investigations, and especially to the President for the very lucid report submitted. The Lieutenant-Governor also desires to record his thanks to Colonel Harrison, late Chief Engineer, for the valuable note submitted by him on the report.

His Honour further recognises the assistance rendered by the Maharaja of Doomraon in providing the Committee with facilities for carrying out their enquiries.

Special thanks are due to the firm of Messrs. Burrows, Thomson and Mylne for their co-operation in the crop experiments carried out, and for a long course of assistance to the Irrigation Department, in no way interrupted by the criticisms they considered it their duty, in the public interest, to make on the system of administration pursued.

Sir Steuart Bayley notices with pleasure the very thorough manner in which Mr. H. Luson, C.S., carried out the enquiries committed to him.

27. The Chief Engineer has selected from amongst the names mentioned by the Committee those of Mr. L. H. Mylne, Baboo Kandhji Sahai, B.A., B.L., Mr. W. A. Inglis, and Baboo Sharoda Prosad Chatterjee as having, both during and subsequent to the Committee's proceedings, rendered valuable assistance in arriving at a satisfactory solution of the difficulties which led to the appointment of the Committee. To the gentlemen mentioned above and in the Committee's report, and to all others who, though not specially named, aided in the enquiry, the acknowledgments of Government are due.

ORDER.—Ordered—

1. That a copy of the Resolution and the Chief Engineer's note and Appendix I be published in the *Calcutta Gazette*.

2. That a copy of this Resolution, of the Committee's report and of the Chief Engineer's note thereon, and all attached papers, be submitted to the Government of India in the Public Works Department for information.

3. That a copy of this Resolution and the documents referred to therein be forwarded to the Appointment, Judicial, Financial, Revenue and General Departments of this Government; to the Board of Revenue, Lower Provinces; to the Commissioners of the Burdwan and Orissa Divisions; to the Superintending Engineers of the South-Western and Orissa Circles, and to the Director of Land Records and Agriculture for information.

4. That a copy of this Resolution and the documents referred to therein be forwarded to the Commissioner of Patna; the Superintending Engineer, Sone Circle, and the Collectors of Shahabad, Patna, and Gya, for information and guidance.

5. That a copy of this Resolution and the Chief Engineer's note be sent to Mr. H. J. S. Cotton, C.S.; to Lieutenant-Colonel C. W. I. Harrison, R.E., to Mr. C. W. Odling, to the Maharajah of Doomraon, to Rai Jai Prokash Lall, Bahadur, to Messrs. Burrows, Thomson, and Mylne, and to Mr. H. Luson, C.S., with reference to paragraph 26 of the Resolution.

6. That a copy of this Resolution and the Chief Engineer's note be sent to Mr. L. H. Mylne, to Baboo Kandhji Sahai, B.A., B.L., to Mr. W. A. Inglis, and to Baboo Sharoda Prosad Chatterjee, with reference to paragraph 27 of the Resolution.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal,
P. W. Dept.

NOTE BY LIEUT.-COL. C. W. I. HARRISON, R.E., CHIEF ENGINEER, BENGAL, ON THE REPORT OF THE COMMITTEE APPOINTED TO ENQUIRE INTO THE ADMINISTRATION OF THE SONE CANALS, DATED 14TH JANUARY 1890.

Appointment of Committee and Report.

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(1). In a Resolution No. 1884*I.*, of date the 11th November 1887, issued by the Public Works Department (Irrigation Branch) of this Government, a Committee was appointed to enquire into the allegations contained in a memorial numerously signed by many of the leading residents and landholders of the Shahabad district, complaining of imperfections in the system of assessing lands irrigated by the Sone Canals, as well as of oppression in collecting the water-rates charged. It was also alleged that injury had been caused to the general health of the district by obstructions to drainage caused by the canals and distributaries, and other causes of complaint were mentioned. A copy of the Resolution was forwarded to the members of the Committee—Mr. H. J. S. Cotton, C.S., President, and Mr. C. W. Odling, C.E., and Rai Joy Prokash Lal Bahadoor,

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members—with a letter No. 1886*I.*, dated the 11th November 1887, in which the complaints made in the memorial were detailed, as well as probable faults of system which had been brought forward by officials, and the remedies suggested.

The Committee was instructed to report on the points noted below—

I.—All classes of complaints and erroneous procedure which are brought to notice either in the memorials or in the various memoranda and reports submitted to them.

II.—The following points on which questions have arisen in the course of working the Act.—

(*a*)—The definition of a village channel.

(*b*)—The liability to water-rate as affected by the use of the words "supplied through a village channel" in sections 79 and 80 of the Irrigation Act.

(*c*)—The alteration of section 74 of the Irrigation Act.

(*d*)—The necessity for legislating for a more summary mode of realizing water-rates than is permissible by the Certificate Act.

III.—The great difficulty experienced in arranging for a proper distribution of water and assessments on irrigation in the absence of village channels and the mode of overcoming this.

IV.—The advisability of making any changes in the existing system of assessments and collection, and of the distribution of duties regarding the assessments and supply of water between the Engineer and Revenue officers. In connection with this, it should be considered whether, since the professional establishment would still have to be maintained at about its present strength for the work, it would not be a waste of strength to abstain from utilizing their services as far as this is possible in the interests of the public for other branches of canal work. Moreover, the gradual and steady progress which is brought out by the reports and notes of the Canal officers should have its due weight in determining whether such progress does not point to its being preferable to build up and improve the existing system, with its gradual growth of ten years, rather than to aim at an entire change.

V.—Changes in the rules to remedy the defects brought to light by the various complaints.

VI.—The necessity for further provision for drainage, and in connection with this the effect of the altered conditions under which the "anaras" now hold water all the year round, instead of as formerly for only a few months, to which reference is made in paragraph 10, clause (18) of the observations; and whether any practical remedy can be found for the difficulties connected with the "anaras."

It was stated that the Lieutenant-Governor hoped that three months would suffice for the completion of the enquiry and submission of the report.

(2). The enquiry was as directed carried out as expeditiously as possible, and the report is dated the 13th March 1888. It is signed by all the members of the Committee, subject, however, in the case of Mr. C. W. Odling, to a dissent dated the 31st March 1888, and in that of Rai Joy Prokash Lal Bahadoor to a dissent, dated the 4th April 1888. In both cases the reservations embodied in the dissent are material, and the report may be taken to be that of the President, Mr. H. J. S. Cotton, C.S., supported, however, in many respects, chiefly as regards the recommendations for the future, by the departmental member of the Committee.

(3). The report was forwarded to the officers mentioned in the margin for criticism. The dates of their replies is noted. The Revenue Secretary, the Hon'ble Mr. Nolan, who had been Collector of Shahabad from 10th May 1880 to 3rd March 1885, was, by order of the Lieutenant-Governor, specially asked to comment on the report, and has furnished a most valuable note, dated the 10th July 1888. Mr. L. H. Mylne of Beheea was also good enough to forward for consideration a number of remarks on the report, dated the 30th June 1888. As the firm of Messrs. Burrows, Thomson and Mylne has had much experience in the matter of canal irrigation, and have invariably endeavoured to co-operate with the canal officers in regard to improved arrangements for distributing water and in other matters the opinions expressed by Mr. Mylne are specially valuable.

Board of Revenue, Lower Provinces, 25th June 1888.
Collector of Shahabad, 31st August 1888.
Baboo Saroda Prosad Chatterjee, Special Deputy Collector, 25th May 1888.
Mr. W. A. Inglis, Executive Engineer, 21st June 1888.
Mr. D. B. Horn, Executive Engineer, 2nd July 1888.
Mr. H. B. Frost, Executive Engineer, 16th July 1888.
Mr. C. A. White, Assistant Engineer, 6th July 1888.
Baboo K. C. Banerjee, Subdivisional Officer, 3rd July 1888.
Mr. K. H. Stephen, Executive Engineer, 20th June 1888.
Mr. H. Barlow, Assistant Engineer, 4th July 1888.
Mr. M. H. Arnott, Assistant Engineer, 2nd July 1888.

The notes of the Engineers were mainly replies to statements made by various witnesses.

(4). As might have been expected, the proceedings of the Committee and their report not only brought vividly to the notice of the canal officers the grievances it was alleged that the irrigating cultivators had suffered at their hands, but also threw light on weak points in the system pursued, more especially those in which the exact provisions of the law had not been observed. The season 1888-89 proved to be one in which the rainfall, though abundant, was not, as regards the rice crop, well distributed, and the Superintending Engineer, Sone Circle, who, in Bengal Government orders No. 1821*I.* of the 19th November 1887, had been informed, in reply to a suggestion to that effect the services of a civil officer would, should circumstances render it desirable, be placed at his disposal, asked that a junior civilian might be appointed to report on the state of the irrigated crops and on certain other points. The officer selected, Mr. H. Luson, C.S., who had previously acted as Joint-Magistrate of Shahabad, and who was at the time Officiating Collector of Gya, commenced his enquiries on the 24th of October 1888, on the termination of his acting appointment.

Mr. Luson submitted a preliminary report on the 5th of December 1888, which was published in the *Calcutta Gazette* for the 9th of January 1889, as an appendix to a note by the Superintending Engineer, Sone Circle, dated the 14th of December 1888.

Mr. Luson himself carried out a large number of experiments as to the yield of the irrigated crops, and a note by him, dated 4th February 1889, on the subject was published in the *Calcutta Gazette* for the 3rd of April 1889.

This note embodied not only the results of the experiments carried out by Mr. Luson himself, but those carried out by canal officials and by Messrs. Burrows, Thomson and Mylne, who had, with their usual public spirit, rendered all the assistance in their power.

(5). Considerable public interest was evinced in the proceedings of the Committee, and the landholders and others interested associated themselves together to render such assistance as they were able in bringing forward evidence of the grievances complained of, and suggesting remedies for the same. The Secretary of this Co-operating Committee has since published a pamphlet, of which I received a copy on the 28th of June 1889. The pamphlet mentioned above may, in conjunction with the dissent of Rai Joy Prokash Lal Bahadoor, be taken as the statement of the case which commends itself to the landholding portion of the community.

(6). The report on the revenue administration of the Sone Circle for the year 1888-89 was received on the 14th of September, and contains statistics and general information regarding the progress of irrigation during the year. In the meantime, another *kharif* season, 1889-90, in which the late rains, so essential for the proper maturing of the rice crops, have failed, has passed away; and before this note is concluded it is probable that the Superintending Engineer, Sone Circle, will be able to furnish a report giving the main facts connected with this season's *kharif* irrigation. The weekly irrigation notes received from Canal Divisional and Subdivisional Officers have already in a somewhat diffuse form placed on record the chief characteristics of the season.

(7). I was travelling about the Sone Canals during the height of the demand for canal water in 1888-89, 17th October to 2nd November 1888, in company with the Superintending Engineer and Mr. Power, the Collector of Shahabad, and I spent a month (May) last year in the circle collecting further information.

(8). The delay in considering the Committee's report though in some respects possibly unfortunate, unquestionably admits of its being dealt with in a more comprehensive manner than would have been possible if it had been disposed of at an earlier date.

Main heads of report, Vol. I, pages 1 to 4.

(9). The report of the Committee is divided into four parts, as noted below—

Part I—Historical and descriptive.
Part II—Complaints against the canal system.
Part III—Complaints against administrative procedure.
Part IV—Recommendations of the Commission.

It will be convenient, after considering Part I of the report, to briefly refer to the provisions of the law and the rules passed under it and the actual administrative system pursued. Such an examination will show that the difficulties and complaints to a large extent arose from an endeavour to engraft rules and a system of procedure, in accordance with which the Northern India Irrigation Act was drafted and passed, on an Act differing from it in many respects and containing at least one section distinctly hostile to a very important feature in the rules and system taken as a guide. The system followed, it will subsequently be made clear, was adopted with no view of enhancing the revenue derived from the canals, but simply with the object of levying water-rates in those cases only where irrigation with water taken from the canals had actually been practised, and where benefit had been reaped.

Part I.—Historical and Descriptive.

(10). It is unnecessary to follow the historical and descriptive account of the canals contained in the report except from two special points of view—(I) anticipated revenue, (II) crops to be irrigated.

Part I, Historical and descriptive, Vol. I, pages 1 to 11.

As to the former, it must be admitted that the forecasts of revenue submitted by the Engineers who designed and carried out the works have not been realized, and that the anticipations of commercial success, which were founded on facts regarded by the Government of India as incontrovertible and accepted by the Secretary of State, have been falsified. The fact is to be regretted, but there are no grounds for believing that these mistaken estimates have had any practical effect on the canal administration.

Vol. I, page 4, and note, page 5.

The responsible local manager, the Superintending Engineer, has not, for many years, encouraged Government to expect more than a modest surplus over working expenses. An extra charge for establishment, imposed as a matter of arrangement between the General and Irrigation Branches of the Public Works Department, has to a certain extent vitiated his calculations, and allowance must be made for the effect of the sittings of the Committee: if this be done it will be found that his estimate has been substantially not far from correct, both as regards net revenue and area likely to be irrigated.

The latest forecast which is specially referred to above is that contained in the Superintending Engineer's letter No. 2432 of the 13th July 1886, the figures included in which were relied on in arranging the financial contract between the Bengal and Supreme Governments for the five years commencing with 1887-88. The letter was written long previous to Sir Steuart Bayley's visit to Arrah in August 1887, and before there were any signs of the agitation which culminated in the memorial leading to the appointment of the Committee. Reference will be made to the forecast later on; here it is sufficient to say that Government deliberately accepted a moderate estimate of revenue for the five years ending with 1892-93, and that it is this estimate,* and not the more sanguine ones framed before any actual experience on the working of the canals had been obtained, which must be taken as the financial results that were expected.

Vol. II, page 245.

* Estimated area to be irrigated—

		acres.
1887-88	...	325,000
1892-93	...	375,000
Actuals—		
1887-88	...	315,380
1888-89	...	355,909

The second point mentioned in the preceding paragraph—crops to be irrigated—will now be considered.

(11). The connection between the revenue derived from the canals and the substitution of *kharif* for *rabi* crops may not at first sight appear to be close; but in the course of this note will be made clear, and the spread of rice cultivation on lands formerly devoted to *rabi* crops will therefore be now briefly referred to.

Vol. I, pages 24 to 31.

When the canals were projected, it was assumed that, as was then approximately the case, half the area commanded would be cultivated with *rabi* and half with *kharif* crops, the former mostly filling the high lands in the immediate vicinity of the canals and distributaries, and the latter those lying at a lower level. The change in the character of the crops raised on the land—generally high—on which the canals run is remarkable. *Rabi* crops have practically disappeared. The character of the soil and the presence or absence of wells seems to have had little or no effect on this result, which was due to one cause and to one cause only—the possibility of getting a full and regular supply of water. On this point there can be no possible doubt,

as will be evident from the subjoined extract from a letter from Mr. L. Mylne, dated the 3rd June 1888, commenting on the report with particular reference to its applicability to the Jugdispore estate, italics are mine.

Note on page 30, paragraph 86 of report.

"For the irrigation of the jungle portion* there were no *aharas*, but were constructed between 500 and 600 masonry wells which, till the advent of canals, sufficed for all the requirements of the cultivators. *There was hardly any paddy cultivation.* * * * The adoption of canal irrigation was rapid and general all over the jungle mehal, resulting after a few years in an almost entire change from dry weather to wet weather crops which *could not*† *be raised by well irrigation.* The transformation has been so complete and thorough that only the absolute refusal of canal water for paddy would compel the ryots now to forego the cultivation of that crop."

* About 13,000 beegahs.

† Worthy of note, as in the complaints it was frequently asserted that rice had been irrigated by wells.

(12). As stated in the report, it may be that the change has been "not altogether in the best interests of the people." I am myself of opinion that restrictions—which would not have been popular—in the quantity of water supplied in each distributary in the *kharif* season should have been applied, and Mr. Mylne, senior, has‡ expressed a similar view; but there surely must be decided financial advantages, or so overwhelming a change would never have been made by a people notoriously conservative in their methods of agriculture. There was no necessity for the alteration, as ample means for irrigating *rabi* crops with well water, if there were objections to canal water existed in the Behea estate.

‡ Vol. II, page 195.

(13). Sir G. Campbell, who was by no means sanguine of the success of the canals, was apparently just as much mistaken as the Engineers: his fear§ was that there would not be sufficient water in the river to supply the canals with the water required for the winter crops. As a fact, there has hitherto been always enough to spare in that season; and with the view of inducing the people to take advantage of it, the Committee propose to reduce the rates for *rabi* irrigation. The exact bearing of the change in the character of the crops on the revenue derived from the canals has been that the higher sandy lands near the canals, which the projectors of the scheme anticipated would be cultivated with *rabi* crops, have been covered with rice, and the *rabi* water rates which it was expected would be realised have been lost. The water utilized in the manner described is not available for the lower lands further from the canals and more suitable in themselves for rice crops besides requiring less water. The attached map will show how concentrated the irrigation is, and how much *kharif* irrigation could be developed if the water-supply was sufficient during that season.

§ Vol. I, page 5. Latter part of quotation.

It is also an open question—and something more on this head will be said later on—whether the canals by increasing the quantity of drainage water have not, so far from injuring existing *aharas* used for the irrigation of rice lands, improved their supply.

(14). An extra 100,000 acres of *rabi* irrigation would make all the difference in the financial prospects of the scheme, and if in one estate 13,000 acres of *rabi* cultivation, a large part of which might reasonably have been expected to take water for that crop, have disappeared, it scarcely seems extravagant to suppose that this area alone has not only been lost, but absorbed a supply of water which could have been more profitably disposed of in irrigating lands naturally better adapted for rice crops.

From what has been said above, it will be seen that the change from *rabi* to *kharif* cultivation, which dates from after 1877-78, when *rabi* crops irrigated by canal water mostly failed, was neither contemplated nor welcomed by canal officers. It is right to distinctly traverse the statement made in the report—

Vol. I, page 10, section 26.

"The conviction which impressed itself on Colonel Rundall's mind that the canals must be maintained from rice cultivation and not from *rabi* has moulded the whole subsequent policy of the department."

The action of canal officers has been limited to accepting such changes as the cultivators have in their own interests carried out; and as a matter of fact the water-rate on rice crops was raised by about 20 per cent. on the 1st of April 1881 in the case of annual leases.

Part IA.—Actual Administrative System pursued.

(15). Turning now to the actual administrative procedure followed, the Act, section 74 (page 188 I.M.), provides that "every person desiring that water *shall be supplied* to his land from a canal shall present a written application to that effect to the Canal officer in the form given in Schedule B hereto annexed, or in a similar form, binding himself by the rules made by the Lieutenant-Governor under the powers vested in him by this Act."

Actual administrative system followed.

The words *shall be supplied** are of doubtful meaning, and will be adverted to further on. Schedule B (page 192 I.M.) is obviously intended to be filled in and presented to the Canal officer by individual cultivators. This will be evident on inspection. The name of the applicant is to be put at its head, and there are columns below in which the number of the fields in the revenue survey maps, the acreage of each field, and the crop to be grown, are specified. Leases for compact areas by the occupiers of the various fields included in the block are not contemplated, though in practice it is only to such blocks that water can be delivered. The permit Schedule C (page 193 I.M.) is also in a form obviously intended for issue to individual cultivators only. Sections 74 and 75 of the Act (page 188 I.M.), in which the forms comprising these schedules are prescribed, fortunately give some latitude in the matter to the Lieutenant-Governor, allowing similar forms to be enacted as part of the rules. The discretion thus given was taken advantage of, and the application form prescribed in the rules (page 212 I.M.) which, under section 99 of the Act (page 192 I.M.), have the force of law, is for a convenient block including usually the fields of several cultivators.

* *Vide* Vol. II, page 251.

The signature or mark of each cultivator is required, and the area, more or less, he proposes to irrigate, but the application must be presented through a *lambardar* appointed by the applicants (in the manner provided in Rule 8, page 208 I.M.) to act on their behalf, and the permit is issued in his name. There is nothing illegal in the procedure above detailed, though dealing with associations of cultivators, instead of individual ryots, is not expressly authorized in the Act itself.

(16). It has already been stated that practically water can only be delivered to blocks more or less compact, and that the application, instead of being for specified fields, is for areas, more or less, in the occupation of cultivators who have signed the application. The statement of water-rates due is, except in the case of five years' leases, prepared after the fields have been irrigated, and the manner in which the measurement is to be effected, the demand statement prepared and published, and objections thereto decided, is elaborately provided for in Rules 38 to 48 (pages 210-11 I.M.). This procedure is to some extent justified by section 78 of the Act, which states that "the rates to be charged for canal water supplied for purposes of irrigation shall be determined by the Lieutenant-Governor, and all persons *accepting* the water shall pay for it accordingly."

Paragraph 2 of Instructions for Canal Officers (page 223 I.M.) states that the "application constitutes an acceptance of water within the meaning of section 78 of the Act."

In practice, however, the actual area irrigated is measured, lands applied for but not irrigated have not been charged. This procedure was approved of in Colonel Harrison's letter No. 1334I of the 9th August 1887, contrary orders having been given by Colonel Haig, but seldom, if ever, acted on.

(17). The Rules, pages 207-215 I.M., and Instructions to Canal Officers and Subordinates, pages 223-228 I.M., are very much on the lines of those issued in the North-Western Provinces under the Northern India Canal and Drainage Act, in which no written application for water is required. Persons entitled to use a village channel have in those provinces the right to take water whenever they please, and an endeavour was made to, as far as was legally possible, assimilate the procedure in Bengal to that which had succeeded in the Upper Provinces. It is stated in paragraph 1 of the instructions for Canal Officers (page 223 I.M.) that the basis of all demands is the application form, but as a matter of fact water-rates are (paragraph 3) to be levied in accordance with the *khasra* prepared by the ameen under Rule 38 (page 210 I.M.). A permit is not issued, nor are any arrangements made to supply the cultivators with water until a written application has been filed. Once, however, a permit was issued, the cultivators were permitted to take water pretty much as they liked, and the actual area irrigated was measured and charged.

The past tense is used in the paragraph preceding, as latterly, more especially since the Committee at, the supply of water has as far as practicable been limited to that required for the area to be irrigated, and active measures taken to prevent lands outside those mentioned in the application continuing to receive water. It was in previous years held that either the area irrigated was covered by the written application, or the cultivators were liable to be charged, under section 79 of the Act (page 189 I.M.), the water having been used in an unauthorized manner. It is a question what is the force of the words in section 74 of the Act (page 188 I.M.) "supplied to his land with the permission of the Canal Officer." No active aid was given to admit of lands, not covered by a permit, being irrigated, and unless water was taken from an outlet which it was necessary to keep open to supply leased areas, the outlet was closed so soon as it was reported to the Canal Officer that unauthorized irrigation was in progress. On the other hand, if the definite was properly and necessarily open, but little care was taken to prevent irrigation extending beyond the boundaries of the land for which a permit had been issued.

18. As the application is required to be in writing, it has been suggested that the permission must also be in writing, or at any rate definite (vol. II. page 251). The application was *de facto* treated more as a notice that water was required in a certain locality than as actually giving the area to be watered, though considerable regard was paid to the latter in fixing the size of the pipes when a temporary outlet was required. The applications were nearly invariably for an area considerably less than the cultivators intended to irrigate.

The instructions for Canal Sectional Officers, paragraph 5, page 224I.M., which distinctly forbade them to close an outlet once irregularly opened without the sanction of the Sub-divisional Canal Officer, show clearly that it was considered more important that the supply of canal water should not be stopped than that unauthorized irrigation should be prevented.

The Canal Officer usually, before closing the outlet, gave the cultivators a further opportunity of filing an application.

19. It is here that the question of supply comes in. In the definition of village channel, section 3 of the Act (page 179I.M.), the sluice or outlet through which the channel is supplied is expressly excluded; it follows that the owner of the channel or the *lambardar* is not responsible for the opening and closing of the outlet, though it has been the practice in most cases to permit the cultivators to regulate the supply of water as they pleased. In fact, until permanent outlets could be constructed, no other course was practicable, as the pipe outlet was stopped with a wisp of straw which could at once be pulled out without difficulty. It was not possible to fix the position of permanent outlets until it was known not only where they would be required, but the average area to be irrigated by each, so that the size of the opening required could be ascertained.

The Act throughout—sections 74 and 78 may be taken as examples—contemplates the supply of water being regulated by the canal officer, and Mr. Mylne* has right on his side when he objects to this burden being thrown on the lessees. At the same time the cultivators prefer to have the power to open and shut the outlet at their discretion without having to seek for the canal subordinate entrusted with the key.

* Vol. II, page 182, paragraphs 5 and 6.

20. In the case of unauthorized irrigation, there is no question that the first point for decision is—Was the supply passing through the outlet required for leased areas and improperly diverted to lands not covered by a permit? It will be gathered from what has previously been said that until this point was brought forward in connection with the memorial, it was seldom or ever considered. It sufficed if it could be shown that the land had been irrigated through a village channel, and that the crop had derived benefit therefrom; benefit was usually assumed if the crop were a fairly good one, and it may here be mentioned that we have lately been advised that temporary benefit is sufficient to justify an assessment. The fact is that under the system of measurement prescribed in rule 38 (page 210, I. M.), the objection would only occur in cases where liability to water-rates rather than the fact of irrigation or benefit was disputed, and such cases were not common, though perhaps those in which most feeling was shown.

The blots in the system described above, viz. (I) the transfer of responsibility for the supply through the outlet from the Canal Officer, to whom it legally appertained, to the *lambardar*, and (II) the failure, in cases of unauthorized irrigation, to take into account the *lachés* of the Canal Officer in permitting a supply of water through the outlet in excess of the legitimate requirements of the leased area, though less strongly commented on in the report than other aspects of the case, are in fact the most serious faults established in the system of canal administration pursued. They are strongly animadverted on by Mr. L. Mylne, who is, I think, justified to the extent already admitted in saying that "Canal Officers shirk all responsibility in the matter of preventing 'waste' and 'unauthorized' irrigation." The word *all* should be omitted, as endeavours were always made to prevent an outlet being opened until a lease was executed, and the tendency to check and restrain irrigation without permit was each year becoming more and more fully developed. It is possible that the *lambardar* might, even with the law as it stands, be required to close an outlet when water is no longer legitimately required for the irrigation of *leased* areas.

Vol. II, page 181, paragraphs 5 and 6.

It was indeed becoming clear that, despite the obvious advantages of permitting cultivators to take water, as in the North-Western Provinces, when they liked, and then measuring the area irrigated, the practice led to undesirable disputes when the lands were assessed. One element of success in any such system was from the first wanting, inasmuch as an endeavour was made to supply all the irrigable lands in a village with water even in the *kharif* season if required, whilst in the North-Western Provinces not more than 40 per cent. of the culturable lands of a village is supposed to be provided with irrigation in the *kharif* and *rabi* seasons together. If the supply of water had been thus strictly limited the following advantages would probably have been gained. In the first place the control of the outlet could have been given to the cultivators who would most likely have taken it willingly; secondly, having this control and knowing that the supply was limited, they would have had every inducement to make it go as far as possible; and, thirdly, the limited supply would have rendered it obligatory on them to confine the irrigation within well defined limits, and thus disputes regarding assessment would have been very rare.

It is doubtful whether, unless the area to be irrigated in each village was limited, any system not involving restricting the supply in accordance with the area applied for, could continue to have been permanently followed with financial advantage to the canals or contentment to the cultivators.

The chief benefit Government reaped by the system actually pursued was that irrigation spread more rapidly than it would have done had a strict system of written applications for definite areas of lands previously measured been insisted on, and the quantity of water rigidly limited to what was required for these. The financial disadvantages to Government of the system followed were in no wise evaded. As has previously been stated, no attempt was made to measure lands for which applications had been filed, but for which water was not required.

21. The system followed was practically that led up to by the rules and instructions which had been approved by Government; and, as will be shown later on, the administration was in the main considerate, almost beyond the limits of the authority confided in the officers to whom it was committed.

These remarks apply wholly to *kharif* irrigation. It is expressly stated in the report that there were no complaints of unauthorized irrigation in regard to *rabi* crops.

Vol. I, page 67, section 209.

It is perhaps as well to describe as succinctly as possible the duty which devolves on the Canal Officer under a strict construction of the Act. He is practically by the Act and rules, though not so specifically stated therein, required to supply a definite area of land with just so much water as is necessary to ensure the crop being brought to perfection, and at the same time to ensure that the supply shall be so restricted that water shall not be available for the irrigation of lands beyond the boundaries of the area leased. The quantity of water required will vary each year in proportion to the rainfall, and not only the quantity, but the time when wanted. The problem is a difficult one even in the initial stage of laying down rules, which will admit of the Canal Officer, on the one hand, as far as practicable, protecting the public interests by preventing canal water being used without payment being legally enforceable, and, on the other hand, conforming to the standard above laid down that leased areas shall receive such a full and timely supply of canal water as is required for the crops.

PART II. COMPLAINTS AGAINST THE CANAL SYSTEM.

22. This part of the Committee's report will now be considered. The Sone Canals scheme on the 1st of April 1889 consisted of 218 miles of navigable canals, 149 miles of canals for irrigation only, and 1,167 miles of distributaries. It is obvious that in constructing such a network of channels injury to private rights could not be avoided, and that inconvenience, and in some cases actual loss, would be suffered by individuals, which would not be adequately recompensed by any pecuniary compensation admissible under the law, however considerately and even liberally administered. Generally compensation beyond the actual value of the land acquired was not claimed. Whatever benefits might accrue would in the course of a few years be taken as a matter of course, whilst the injuries suffered by individuals or their ancestors would by no means be forgotten, especially in those cases where the inconvenience was still felt, such as a canal running through a village. So far as the points above mentioned are involved, and parts of the adminstrative system are concerned, to which detailed reference will presently be made, but which may here be stated to include, amongst other matters, 'unauthorized irrigation' and its consequence 'deficiency of supply' and the collection in a short time of heavy arrears, it may be admitted that the agitation was to a large extent real.

Volume I, page 12, section 29.

The complaints brought forward included both classes of cases, those where individuals had suffered injustice, balanced by others where the only real grievance was that water was not supplied at the valuation of the lessee.

23. Mistakes could not fail to be made by officers who had no previous experience of work of the kind, and no experience in other parts of India would have enabled either revenue officers or engineers to deal successfully with conditions peculiar to the districts served. Frequently, as in the case of the substitution of *kharif* for *rabi* crops, the conditions were themselves an effect of canal irrigation—only gradually developing—the effect of which was not at once realized either by the cultivator or the engineer. That these difficulties were not at once fully met can be no matter for surprise. That efforts not wholly unsuccessful were made to meet them is unreservedly admitted by the Committee in paragraph 96 of their report. It must not be forgotten that, except in the case of one eminent firm, the canal authorities could count on no active aid from either landholder or cultivator in preventing or detecting the misappropriation of the water which had cost Government much and which the cultivator never forgot might, if timely rain fell, be dispensed with. The article was in fact looked on as one which in the *kharif* season of the year at least was so common that payment was in every case more or less of a hardship to be evaded if practicable.

24. From paragraphs 15 to 21 of this note it will be seen that the rules and instructions adopted for the guidance of canal officers, though admirably adapted to the circumstances of other provinces, have not been found to be altogether suited to irrigation as practised from the Sone Canals. Difficulties had been experienced which could not be adequately coped with by canal officers, and for which a thorough investigation whether by a committee or a single qualified officer, was a necessity.

So far from complaining of the conduct of the gentlemen who interested themselves in the memorial presented to the Lieutenant-Governor, I am free to admit that the time for such an enquiry was opportune, and that it was desirable that landholders they should take the opportunity of which they availed themselves of putting their views on the question before His Honour. The advantages which have resulted from the enquiry, from one point of view, can scarcely be overrated. It has placed prominently before canal officers the popular view of alleged grievances, and enabled them to remove causes of complaint which they were perhaps not disposed to consider of any great importance till so strongly animadverted on. The reforms have been effective, and care will be taken that the improvements already made are maintained.

Volume 1, page 12, section 30.

25. It is only fair to the superior canal officers—the Superintending Engineer and Collector—to say that the grievances so much complained of were never fairly brought to their notice. A communication from gentlemen in the position of Messrs. Burrows, Thomson and Mylne could neither have been lightly dealt with nor ignored. The matter is not of practical importance; it is admitted that a systematic enquiry was necessary, and the redress of particular grievances could but have postponed it.

26. The manner in which the enquiry was conducted may now perhaps be noticed. Both the Collector of Shahabad and the Hon'ble Mr. Nolan have taken strong exception to the Committee's proceedings in not having verified the statements made by properly sifting the evidence on which they were based. There is much force in the objection if the statements are to be taken as embodying anything more than the popular view of the grievances suffered. There are, however, other aspects of this question apart from the limited time fixed for the completion of the enquiry. It was absolutely necessary that the Committee should rigorously abstain from any appearance of exercising appellate or other authority over canal officers, and investigations into individual cases could

Volume 1, page 2.

scarcely have failed to have led to the expectation that actual orders would be passed on complaints brought forward.

27. As it was, the proceedings of the Committee interfered not only with the collection of the demands then due, which could be realized subsequently, but also with the measurements and assessments which could not be postponed. Investigations requiring the personal attendance of canal officers would have seriously interfered with these pressing duties. They were called on for reports on the more important cases, some of which, with all or nearly all the replies by the Deputy Collector and his subordinates, are printed in Volume II of the report, whilst others were received after it was submitted, and will, when necessary, be referred to in this note.

For the purposes of the Committee the method adopted was, under the circumstances, suitable, and except that possibly in a few of the more important cases it would have been well to have dealt more completely with both the complaint and reply, I do not take exception to it, further than that at times it seems to have been forgotten, in commenting on alleged individual grievances, that it was possible that the account given of them might not be accurate and that it was certainly unsafe to treat them as undisputed facts. It is stated in the report that replies to some of the complaints have been printed in juxtaposition with the complaints, but they are seldom or ever alluded to therein, an omission which has since been to a certain extent supplied by the reports enumerated in paragraph 4 of this note.

Vol. 1, page 2, paragraph 2

28. The first point taken up is "CANAL *versus* AHARA IRRIGATION FOR RICE."

Volume I, page 13.

It is stated by the Committee that the one aspect of the canals which forces itself upon the people more than another is—

"That irrigation from the canals has superseded and rendered impossible within the area commanded by the canals the old system of irrigation by ahurs and pynes. The zemindars complain that the ahurs constructed by them have been destroyed and rendered useless without the payment to them of compensation. * * * The cultivators complain that they have now to use canal water and pay for it, whereas formerly they had the ahur water for nothing. They have now to pay an annual tribute of, say, eight lakhs of rupees for water-rates, whereas formerly they were supplied with the old means of irrigation without any payment. It is true that in some cases a small ahur rent of one, two, three or even four annas a bigha was charged by the zemindars, but in many cases nothing at all was charged. * * * These are simple facts. The question is whether they are sufficiently met by the allegation that by the use of canal water the yield of paddy is larger than when the land is irrigated by other means. This answer would be a satisfactory one, if it were true that the increased yield was sufficient to enable the cultivator to pay the additional water-rate. The canal officers assert that this is so, and departmental experiments are made every year to show the increased yield per acre of land."

It will perhaps be convenient to take up the question of the yield of irrigated crops, and then to pass on to the alleged interference with the old system of irrigation by aharas, which it may be remarked were generally inefficient and frequently useless. Such as they were they cost a great deal of labour, usually unpaid, to maintain. The Hon'ble Mr. Halliday remarks* that the administration of the *ahara* system of irrigation by the people themselves was not a success.

* Minute, dated the 15th June 1888.

29. Before discussing the subject, it is right to remark that crops were not selected for experiments with a view to establish any particular result. It was expected by canal officers at least that any set of experiments would show that the yield of rice crops regularly irrigated would exceed those which depended on the rainfall or an *ahara* also practically so dependent as being supplied from a catchment basin of a limited extent.

30. The result of the experiments made by canal officers in each year up to 1886-87 is shown in a table in the Sone Canals Committee's report. In 1887-88 the results were as shown in the table below—

Volume I, page 13, Section 32.

IRRIGATED WITH CANAL WATER.				IRRIGATED FROM OTHER SOURCES.			
Number of experiments.	AVERAGE YIELD PER ACRE.			Number of experiments.	AVERAGE YIELD PER ACRE.		
	Grain.		Straw.		Grain.		Straw.
	Mds.	s.	Mds. s.		Mds.	s.	Mds. s.
168	17	27	39 18	165	10	30	23 27

The results from the year 1880-81 to 1887-88 are as follows, taking grain only into account :—

I.—Canal irrigated dhan—1,227 experiments, average yield per acre of unhusked dhan—16$\frac{5}{20}$ maunds.

II.—Irrigated from other sources—1,030 experiments, average yield per acre of unhusked dhan—12$\frac{8}{20}$ maunds.

These experiments, it must be noted, were both as regards canal irrigated dhan and dhan otherwise irrigated intended to show the yield of *average* crops.

31. Whilst not claiming that every experiment was conducted with such precautions as would ensure absolute accuracy, the Superintending Engineer maintains that taken together the experiments made represent "very fairly the actual state of things." It should be noted that in 1880-82 the advantage in favour of canal irrigation was very trifling; in other years it was more considerable, and the Superintending Engineer's contention is that these results are substantially correct.

Volume I, page 98.

32. In 1888-89 there was a general failure of the rains throughout Behar, and the good result of canal irrigation is thus described by the Commissioner of Patna :—

No. 597G. of the 26th September 1889.

"The Sone Canals have been a great boon during the year to the districts irrigated by them. But for them there would have been distress and scarcity, the inevitable result of the failure of the rains in September and October. The crops generally, where canal water reached them, were good, but they failed almost entirely elsewhere."

Such is the opinion of the chief Civil Officer in the Patna Division, based on reports from district officers, which were necessarily more than ordinarily carefully observant of this point to which the scarcity in Behar had drawn public attention.

33. The above is an opinion. There are, however, solid facts to go on. It was felt, in view of the hesitation expressed by the Committee in accepting the results of experiments carried out by canal officers, that it was desirable, for one year at least, to have experiments carried out by an officer independent of the Irrigation Department. Mr. H. Luson, C.S., was the officer selected to report on this and other matters connected with the advantages or disadvantages resulting from irrigation. The Superintending Engineer asked for the co-operation of Messrs. Burrows, Thomson, and Mylne, and canal officers were instructed to invite zemindars, ryots, and others interested to attend the experiments carried out by canal officers, and, as a matter of fact, they did so, the Subdivisional Magistrates being also frequently present. The instructions issued were that *good crops* should be selected, and that ordinarily the crops should be weighed on the field.

34. The results of the experiments are shown in the table following:—

Crop.	Name of officer conducting experiments.	Number of experiments.	Average yield, dhan	Number of experiments.	Average yield, straw.
			Mds. s.		Mds. s.
Transplanted Aghani dhan	Mr. H. Luson, C.S.	25	33 39½	25	47 17½
	Messrs. Burrows, Thomson, and Mylne	26	31 6½	26	52 22½
	Canal Sub-divisional Officers	33	35 5½	31	68 14½
	Canal subordinates	136	31 30½	134	55 38½
Kartika dhan	Mr. H. Luson, C.S.	3	35 1½	3	46 36½
	Messrs. Burrows, Thomson, and Mylne	25	26 37½	25	46 5½
	Mr G. C. Maconochy, C.S	2	31 4½	2	56 29½
	Subordinate, Agaon	1	14 19½	1	35 6
Broadcast dhan	Mr H. Luson, C.S.	2	23 24	2	31 22½
	Messrs. Burrows, Thomson and Mylne	1	23 14	1	36 33
	Canal Sub-divisional Officers	3	27 11½	1	54 0
	Canal subordinates	2	33 7½	2	39 13½
	Average	261	31 32½	253	54 32½

The above table is abstracted from a note by Mr. H. Luson, dated the 4th February 1889, which was published in the *Calcutta Gazette* for the 3rd April 1889, in which the whole of the experiments, whether made by himself or others, were analysed.

Of the 261 experiments made on the yield of dhan, 30 were carried out by Mr. H. Luson and 52 by Messrs. Burrows, Thomson, and Mylne. The remainder were carried out by canal officers and subordinates.

35. The evidence recorded by the Committee is wholly to the effect that the yield of dhan is less—considerably less*— half what it was under the old system, Mr. Mylne alone† stating that he refrained from giving an opinion on the question because he had no data to enable him to speak positively on the subject, but adding:—

* Volume I, page 15, complaint 37.

† Volume II, page 203.

"I may state, however, that the general opinion of our tenants is that since the introduction of canal irrigation the produce of all crops has been considerably reduced."

The statements made were not infrequently emphasized by the declaration that the witness would be glad to cancel his five-year lease.

Volume I, pages 15, 16, and 17.

The evidence recorded by the Committee is, as a matter of course, to some extent at least influenced by the consideration that the witnesses were mainly the buyers of the commodity sold by the canal officers. They naturally desired to purchase at a low rate and on conditions favourable to themselves, and the unanimity of the testimony which is commented on by the Committee is, from this point of view, not remarkable. In other matters it is not infrequently found that would-be purchasers are not undesirous of obtaining what they require as cheaply as possible, and that it is not their habit to extol the merits of the contemplated purchase.

Volume I, page 17, paragraph 38.

36. It may be that there is a prejudice against the use of Sone water for irrigation which has been handed down from generation to generation, but the prejudice did not, as is expressly stated by Dr. Buchanan Hamilton 80 years ago, prevent "industrious persons watering their lands from the Sone with the utmost success, though the land is poor,"
and it has equally little practical effect now.

Volume I, page 17, section 35

The Committee remark that—

"The impression entertained by the cultivators is apparently due to their involuntary comparison of it with other fertilizing agencies of superior quality. The only way to test the correctness of the impression is by systematic experiments scientifically conducted by independent agency."

Volume I, page 17, section 40.

The fertilizing agencies mentioned are the river Ganges and old wells; the former is inaccessible for kharif lands commanded by the Sone Canals, and the latter are not used to any extent, if at all, for rice irrigation.

37. An attempt has been made to satisfy the demand for experiments carefully conducted by independent agency with the results already shown.

The assertions made before the Committee were to the effect—

Complaints 37, 79, 92, 110, 112, 113, 136, Volume I, pages 15 and 16.

I. That abundant crops could not and never were produced by land irrigated by canal water.

Complaints 53, 90.

II. That the producing power of the land had deteriorated owing to the use of canal water.

Complaints 43, 53, 109, 111, 113, 117, Volume I, pages 16 and 17.

III. That certain descriptions of soil, especially *kewal*, are not suited for irrigation by canal water.

These allegations will now be considered in some detail in the light afforded by the experiments carried out in 1888-89.

38. The first assertion is, it is considered, sufficiently disposed of by the table already given. An average yield of 31 maunds $32\frac{9}{16}$ seers per acre over all descriptions of dhan, all kinds of soil, and all methods of cultivation can scarcely be taken as other than positive proof that good crops can and are, under certain circumstances, produced by canal water. In the case of superior cultivation, *i.e.* transplanted *aghani* dhan, the average yield was within a fraction of 34 maunds in the case of the experiments carried out by Mr. Luson, and $35\frac{3}{20}$ maunds on those carried out by Canal Sub-divisional Officers, evidently, Mr. Luson remarks, "because taking a very small number of experiments each, they were mostly able to choose the very best crops." Instances of lands yielding crops producing a yield of 39 maunds and upwards per acre were not rare, the greatest yield being 44 maunds 8 seers. It must not be forgotten that these experiments were avowedly on *good* crops. The question of *average* yield will be considered in connection with rate. Here it may be mentioned that Mr. Luson estimates the average yield of canal irrigated crops for 1888-89 at $18\frac{7}{10}$ maunds, which is two maunds in excess of the result of canal officers' experiments to date.

Mr. Luson's note, dated 4th February 1889, paragraph 6.

39. *II.*—The experiments referred to in the paragraph above were on lands under long lease. In 23 out of 25 of the experiments carried out by Mr. Luson on the yield of *aghani* dhan, "canal water had been continuously taken for nine years or more. Of the remaining two, in one canal water had been used for three years and in the other never before. The results of these two are slightly below the average of the 25."

In the great majority of the remaining experiments water had been used for seven years and upwards, Mr. Luson concluding his remarks* on this subject by observing that—

* Note, dated 4th February 1889, paragraph 12.

"In fact the experiments upon transplanted *aghani* dhan have been generally upon lands continuously irrigated by canal water for a number of years, and it is therefore impossible from the returns to compare the results of the continued use of canal water with those for lands to which it has not before been applied."

The only possible conclusion seems to be that the benefits produced by using canal water have been so great that when once they have been experienced the cultivator is unwilling to forego them.

40. *III.*—Turning to the third allegation, the unsuitability of certain descriptions of soil for canal irrigation, the fault—if there really has been a falling off in the yield of fields belonging to particular cultivators—appears to be more with the cultivator than with the canal water. In the case of 16 experiments carried out by either Mr. Luson, Messrs. Burrows, Thomson, and Mylne, or Canal Sub-divisional Officers, the average yield of *aghani dhan* grown on *kewal* soil was 34 maunds $15\frac{9}{16}$ths seers per acre. It is true that a yield better by about 10 per cent. was obtained from 30 experiments on the soil

Mr. Luson's note, paragraph 11.

known as *balmat*, but there is nothing to justify the allegation that the *kewal* soil had ceased to be productive. The fact is no doubt as stated by Mr. Luson—

"From these tables it is clear that sandy soils are somewhat better for the cultivation of dhan than clayey soils: they would seem also to be better than loamy soils. The results are in accordance with the general opinion throughout these districts. They prove also that very good dhan can be grown upon clayey soils."

41. It was very generally stated by the witnesses whose evidence is alluded to in* paragraphs 35 to 37 of the Committee's report that they were desirous of cancelling their five-year leases if allowed to do so. The Superintending Engineer has been vested with powers to cancel these leases provided all the signatories apply to that effect. From the revenue report of the Sone Circle for the current year, it appears that nine leases only, covering 1,456 acres, had been cancelled up to the 1st April 1889, and five for 529 acres have since been cancelled. No single application has been refused, nor, provided it is preferred by the 25th June, before the season has commenced, would it ordinarily be declined in future. An offer† by the Superintending Engineer on the 15th October 1888, to cancel a lease for 512 acres at the end of the Kurmuri distributary, to which water could not be supplied owing to the criminal conduct of adjoining villages, was indignantly refused, as it involved the loss of canal water in the year following.

* Volume I, pages 15 and 16.

† *Calcutta Gazette*, 9th January 1889.

42. Specific replies to the complaints quoted at pages 15, 16 and 17, Volume I, will be found in the Engineer's reports. As regards Nos. 34 and 35, a subordinate of the Department was imprisoned in 1888 for being concerned in illicitly giving water to these villages, which consequently could not be assessed, and in nearly every one of the remaining cases further five-year leases have been applied for. Adverting to witness No. 136, the following extract from a report by Mr. Stephen, dated the 20th June 1888, deserves attention :—

As regards the evidence quoted by the Commission in support of the general opinion as to the deterioration of crops by canal water, I desire to call particular attention to the evidence of witness No. 136, Shah Madomed Wahidudin (page 16 of report), who has been described as a respectable Mahomedan zemindar of good family. At the very time this witness gave his evidence before the Commission, he had applied to the Executive Engineer, Eastern Sone Division, under section 50 of Act III (B.C.) of 1876, to acquire land and construct a village channel for him at an approximate cost of Rs. 400, to irrigate about 400 bighas of land, which at present cannot be irrigated from the canal. The water-rates on the 400 bighas will be at least Rs. 500 a year. It seems to me passing strange that, if Shah Mahomed Wahidudin derives no benefit from canal water, he should be desirous of introducing canal irrigation into his village, when he might construct an "ahra" with the cost of the proposed village channel, and save the yearly tribute of Rs. 500 which he will have to pay as water-rates.

43. In connection with this subject, the only further point which it appears necessary to bring forward is the extension of rice cultivation. That this change is in some respects not beneficial may be admitted, but, as remarked by the Committee, the fact is unquestionable, and there must have been some very strong reason to induce so conservative a class as the Behar cultivator to so radically diverge from his previous customs. The cause of the alteration is thus explained by Mr. L. Mylne in a letter, dated the 30th June 1888 :—

Volume I, page 31, Section 4.

It is necessary to explain here why canal water has been appreciated by the cultivators on the Jugdispore estate, and for this purpose I attach to these remarks a tracing of this estate. It will be seen that the area is divided into two portions—

(1) That coloured green which, under forest 27 years ago, was rapidly cleared and brought under cultivation within a few years subsequently.

(2) The former settled portion coloured crimson.

For the irrigation of the jungle portion there were no ahurs, but were constructed between 500 and 600 masonry wells, which, till the advent of canals, sufficed for all the requirements of the cultivators. There was then hardly any paddy cultivation.

In the second or village portion we put into thorough repair and extended existing ahurs, which had become well nigh useless, besides constructing entirely new ones.

The adoption of canal irrigation was rapid and general all over the jungle mehal, resulting, after a few years, in an almost entire change from dry weather to wet weather crops, which could not be raised by well irrigation. The transformation has been so complete and thorough that only the absolute refusal of canal water for paddy would compel the ryots now to forego the cultivation of that crop. In the settled villages surrounding the jungle mehal canal irrigation was not extended or developed so rapidly because of ahur irrigation. But when, in seasons of deficient and uncertain rainfall, ahurs failed, the cultivators of these villages made a general and persistent demand for canal water, and we were compelled to extend our system of channels to meet their wants

The fact that an efficient canal, such as the Behea Branch, was constructed through the entire length of the Judispore estate, so compact as it is, was a potent factor in the development of canal irrigation and the disuse of ahurs. "Here is a constant and ample supply of water," thought the ryots, "available from the end of June to the end of October: let us give up the uncertain irrigation from ahurs, which fail us either at the beginning or the end of the season, and take canal water." It frequently happened that these villages would not apply for canal water till the ahur failed in respect of one watering. They were then supplied with canal water, and, finding that they had to pay as much for one watering as if they had irrigated throughout the season, they naturally decided to depend entirely upon canal water and forget their ahurs. The question arises—would ahur irrigation have been put aside if a small charge, had been levied for one watering or for refilling the ahurs?

The case in this estate at any rate appears to lie in a nutshell. Is it credible that *rbai* cultivation would have been exterminated and *ahara* irrigation abandoned unless the yield of canal irrigated rice was satisfactory—in fact, unless the alteration involved a profit to the cultivator at least, and indirectly to the zemindar?

44. So far the yield of canal irrigated rice has chiefly been considered. The main head "Canal *versus* Ahur irrigation" will now be examined. A continuation of the extracts from Mr. L. Mylne's remarks will show the grounds on which canal irrigation is preferred :—

For some years past a number of these villages have managed without canal water, but the bulk of them, for various reasons, cannot. Our policy as regards these villages has been to co operate with the ryots, by strengthening and improving the ahurs when and where they can, with confidence, forego canal irrigation, and revert to their former methods.

One of the advantages of canal irrigation has not been anywhere mentioned, that is, the comparative certainty of the supply, in most places easily accessible to canal water, for raising paddy seedlings and their subsequent transplantation. With the aid of canal water the ryot may do this work whenever it suits him and whenever the time is seasonable and auspicious, whereas formerly he was dependent upon uncertain rainfall.

45. There is a further special case quoted by the Committee which appears to go to the root of the matter, and is accordingly quoted with the Committee's remarks at length—

* Page lxvii, Appendix III.

"And in regard to a particular village, he writes* :—

"I may mention here that when visiting mouzah Belgaon, one of our villages, the other day, the ryots asked me to thoroughly repair the village ahur so as to relieve them of the necessity of paying Rs. 6,000 yearly in water-rates. They have no complaint against either the assessing or collecting departments, for they have always had a full supply of water, and they pay rates without difficulty. They have entered into a five-year lease among themselves, as contractors, for nearly the whole cultivated area held by them. We are not parties to the contract. The area of the village is nearly 7,000 local bighas, and the gross yearly collections, including Government cesses and putwaries' *neg*, is Rs. 19,000. It would seem that they have begun to doubt whether, if the ahur is thoroughly repaired by us, it would be necessary for them to purchase Rs. 6,000 worth of canal water every year. The village ahur was exceedingly efficient and reliable, but fell into disrepair owing to the adoption of canal irrigation. It is probable, however, that in order to save to the village the large sum of Rs. 6,000 annually, we will put the *ahur* into thorough order. Our only fear is that the ryots may miss the regularity and convenience of the water-supply given by the canal to this village.

"We invite particular attention to this evidence. The village of Belgaon is one to which the Canal authorities have always pointed as a specimen illustration of the benefits conferred on the country by the canals. The outturn of rice is ample, the supply of water sufficient, and there is no friction with the Collection Department,

Here, if anywhere, it may be supposed that the ryots are contented with the present arrangement. But we now learn that in their own opinion and in the opinion of the zemindars of the village it is a matter for consideration whether the advantages of canal irrigation are not purchased at too high a price. To avoid the water-rates it is proposed to recur to the system of irrigation which prevailed before the canals were constructed."

The question which cannot fail to occur to the reader of the Committee's report is—How great must be the advantages derived from canal water when an efficient *ahara* is practically abandoned and Rs. 6,000 paid yearly for canal water? Irrigation in this village is not a thing of yesterday. Water has been continuously taken since the canals came into operation in 1876, so that the villagers, who are themselves the contractors, have had ample opportunity of appraising the value of the commodity bought. If in such cases it is profitable to use canal water, how much more must be the resulting advantages where, as in the vast majority of cases, the *aharas* have an insufficient gathering ground and are not kept in proper order. The Belgaon *ahara* is one of the very few provided with masonry escapes. There are probably not half a dozen others so furnished in the whole of the Shahabad district.

The inference is irresistible that canal irrigation must, even after the payment of water-rates, be highly profitable to the cultivators, especially to those who have not enterprising landlords like Messrs. Burrows, Thomson, and Mylne, able and willing to construct such works *aharas*, *&c.*, as are necessary for their prosperity.

Vol. I, page 17, section 41.

It is perhaps necessary to observe that Belgaon is situated on the last reach of the Kunteya distributary, from which water is supplied in the *kharif* season, and that the canal water used in that village could probably within a short time be equally profitably utilised elsewhere. The demand for canal water in the *kharif* season is already practically in excess of the supply. The cultivators are not improbably reckoning on canal water being available as a '*dernier resort*' should the *ahara* fail. It is quite likely that such would not be the case, and that they would find that exemption from even a tribute of Rs. 6,000 a year had been purchased at too high a price.

46. Against Mr. Solano's opinion may be quoted that of Mr. Nolan, contained in a note, dated the 10th July 1888:—

"I may say that when I was Collector of Shahabad—an office which I held during the five years ending with 1884-85—no one appeared to doubt that irrigation had on the whole been profitable to the district. The system was then extending; indeed the area irrigated doubled during the period; and coincident with its extension was observable a degree of comparative prosperity clearly distinguishing the inhabitants of north Shahabad from the poverty-stricken population of the surrounding districts."

Even now the difference in the appearance of the villages on the Patna-Gya Railway and the Patna Canal cannot fail to strike the most casual observer, and Mr. Solano's practice does not, from the following extract from a report by Mr. Stephen, appear to be in accordance with his recorded opinions:—

Irrigation from ahars.—I am not aware, with one single exception, of any ahars which have been destroyed by the canals in the Gya district. More than 75 per cent. of the lands irrigated from the canals are very high and cannot be irrigated by flow from *ahars*. These lands are all now sown with rice, whereas formerly only inferior crops such as *rahur*, *kodo*, &c., were grown on them. Where ahar water has been abandoned by the ryots for canal water, it is because they prefer canal water and can depend on a constant supply. Last year it was at the special written request of Mr. G. L. Solano, of Arwal, that I executed a five-year lease in, and supplied water to, village Bugpore, pergunnah Arwal. This village in former years used to take canal water and had a five-year lease, but in 1885-86 and 1886-87 it was unable to get water, as the village is situated far down the Malli distributary. There is an ahar in this village. In a second village of Mr. Solano's, Pooran, where also Mr. Solano asked for a five-year lease, I was unable to grant the lease as I could not supply water to the village, it being situated very far down the Khojassa distributary.

47. The complaint that *aharas* were injured by the canals and that no compensation was paid, is supported by two specific instances only—

I.—That of the Ghoosia bund. This embankment was ordered to be cut by the Collector under the provisions of Act II (B.C.) of 1882 as dangerous to life and property, not being provided with masonry escapes and no longer protected by embankments higher up the river Kao, the embankments having disappeared. There would have been a strongly contested legal question as to the compensation payable and the persons liable when the zemindar himself settled the matter by altogether declining to receive any compensation which might be charged to the public revenues. The removal of the embankment had no immediate connection with canal irrigation. The liberality and public spirit displayed by the zemindar in the matter were cordially acknowledged by Sir A. Eden.

II.—That of the Domraon bund which was removed by the Maharajah himself as dangerous to the town, when all the bunds across the Kao above it, by which it was formerly in some measure protected, had been abandoned. There was always the risk of a breach, in which case the town would have been flooded.

The Superintending Engineer's statement that no special action has been taken by Canal officers in reference to *aharas* with the exception of the two mentioned above can scarcely be impugned, though it is not denied that in many cases inconvenience, and occasionally even actual loss, resulted from the construction of canals and distributaries. Such injuries as were suffered were occasioned from 10 to 20 years ago, and compensation should have been claimed at the time. It is impossible to say now without careful enquiry whether compensation was paid in all cases. There is no doubt that in some it was neither claimed nor paid.

Volume I, page 121.

48. One other instance, which is given as an example of how the *aharas* have been "intercepted and destroyed," will be referred to under the head Drainage; and when the question of rates is discussed, it will be shown that there are strong grounds for believing that the irrigating capacity of many of the *aharas* has actually been increased by the canal water which drains off from irrigated rice fields, and is intercepted by these *aharas* and again used for irrigating crops not liable to assessment.

Volume I, page 24, paragraph 64.

Sone Circle Revenue Report for 1889-90, page 11.

Two other points may perhaps be mentioned—

I.—That as regards the village of Ekwari, prominently referred to in a note to page 18, Volume I of the report, and again at pages 22 to 56, Mr. Geo. Fox (who has been Messrs. Moran and Company's Agent since they acquired the village), states (paragraph 27 of Mr. Odling's dissent) that no application for a syphon had been made by them.

II.—That the three villages referred to by Mr. Solano* are unfortunately beyond the area for which water is ordinarily available in the *kharif* season. Two out of the three have, however, had one crop or other under irrigation every year, 1,328 bighas having been watered during the four years ending with 1888-89.

* Volume I, page 17, section 41.

49. The Sone Canals have developed into channels chiefly utilised for the irrigation of rice, not altogether in accordance with the expectations of the Engineers who designed

them, and, possibly, not in the best interests of the people if other than financial considerations are taken into account. It is, however, submitted that the facts brought forward show that for this purpose they are efficient, and that the contention that canal irrigation is other than voluntary, or, as compared with *ahara* irrigation, not profitable to the cultivator, rests on no solid foundation.

Canal versus Well irrigation for Rabi.

50. The Sone Canals have so far not been successful in regard to the irrigation of *rabi* crops. These crops form approximately 10 per cent. of the area under five-year lease, and to this extent *rabi* crops are probably regularly irrigated; but the annual leases which vary in amount from 15,000 to 70,000 acres have always been disappointing. Taking into account five-year leases the largest area ever irrigated was 129,012 acres in 1887-88 which is scarcely one-third of the area to which water could without difficulty be supplied. *Rabi* irrigation has never recovered from the disappointment which the cultivators suffered in 1877-78. They gave it a trial, and the result, partly owing to their own inexperience and partly owing to natural causes, was disastrous. The water was easy to get and the land was flooded to the injury of the crops. There was a pest of caterpillars which destroyed the pulse crops and the wheat was injured by blight. Barley in fact was the only crop which escaped. Large remissions of water-rates were made by Government, but the landlord's rents were, except in a very few cases, exacted as usual.

The water-rate for *rabi* is unquestionably high, and has doubtless an injurious effect both in respect to Government and the people in preventing water which is available being turned to account.

In suitable localities canal water is used for irrigation even at the cost of considerable labour. Lands bordering the Hetumpore Distributary are every year irrigated, though the water has to be lifted twice and in places three times, entailing a cost in labour probably equal to the water-rate.

51. The result of the experiments made to date on *rabi* crops is as follows:—

Crops.	Number of experiments.	Canal irrigated crops, average yield per acre.	Number of experiments.	Irrigated from other sources, average yield per acre.
		Mds. srs.		Mds. srs.
Wheat ...	495	11 1	478	10 31
Barley ...	57	10 34	58	12 21
Wheat and barley ...	117	9 25	106	9 37

Wheat therefore apparently produces as much grain if irrigated by canal water as by the wells usually available, whilst in the case of barley canal water does not seem to give good results. So far as the experiments go, there is, however, nothing to show that as regards one staple crop canal water might not be much more largely utilised, and it probably will be if the rate is made more favourable.

52. That canals in places where there is much percolation render the construction of *cutcha* wells in their proximity impossible is admitted. It is, however, only in parts of the Patna Canal that this difficulty occurs, whilst on the other side owing to the percolation such lands frequently require no irrigation at all. There is no remedy: the canals, it may be hoped, will gradually become more watertight.

* Volume I, page 20.

53. The difficulty with the Opium Department was not general: it was most felt in Patna and Gya and the east of Shahabad. The number of aqueducts applied for—and the application comes through the Opium Department—has not been very considerable, and many of them are but little used. The objection entertained to these by Canal officers had little reference to the irrigation of opium. The crossings can be, and, as a matter of fact are, used for irrigation generally; artful contrivances of one kind or other being resorted to. There is the temptation, which the late Sub-Deputy Opium Agent of Shahabad had to admit was generally irresistible, of taking the first and sometimes the second watering from the canal, a course leading to disputes the canal officers were anxious to avoid. Experience has proved that the Canal officers were right in considering that there was no general demand for crossings, but it certainly would have been better if they had provided such as were actually required without pressure from another department.

Marginal note, Volume I, page 20, paragraph 44.

OBSTRUCTION TO DRAINAGE.

54. This matter has throughout received the most careful attention from all the Engineers who have been engaged in the project.

That all drainage works rendered necessary by the canals should be carried out is admitted. On this point there is no difference of opinion, Mr. Odling observing* that—

* Volume I, page 119.

"Any actual obstruction is remediable, and ought to be remedied, provided always that as a matter of fact it exists. Anything like impeded drainage is under all circumstances and under any conditions an evil from an irrigation point of view, as tending to water-log the land. Liberal provision was made on the general estimates for any drainage works that might be found necessary. The fact of drainage being impeded cannot be hidden, though it may happen that it does not at once come to light, the flow in years of ordinary rainfall being absorbed or utilised before it reaches the canal bank."

The fact is, and it cannot be too strongly insisted on, that the Engineer's objection to *aharas*, which is alluded to several times in the Committee's report, is based not on their capabilities as irrigating agencies, but because as a *condition of existence* they must obstruct drainage. Injurious as the influence of embankments, necessarily aligned across the drainage of the country and, except in rare cases, not provided with escapes must be at present, it would be greatly intensified if canal water was regularly poured into them as suggested in section 232 of the report, and it is for this reason that the Superintending Engineer* advocates caution in dealing with such applications.

* Volume I, page 96.

55. One special case is referred to by the Committee in paragraph 64 of their report. In this instance it is not denied that drainage was interfered with; but, as stated by the Committee, it also—

Volume I, page 24.

"Affords evidence of the action taken by the Engineers to remedy the obstruction which their own works had in the first instance occasioned."

Our sins have certainly found us out. There is, however, no other such case in the whole system. There has equally been no hesitation in remedying the evil appalling to an Engineer as the number of works required to counteract the mistake made has been. One of these only would have been wanted if the correct alignment, *i.e.*, an extension of the Sikrour Distributary, had originally been preferred.

The only condition required precedent to the construction of a syphon is that water shall actually be impounded: wherever this can be shown to be the case, even to a slight degree, there will be no hesitation in providing such a work: where, however, there is no obstruction, no possible good can result from expending public money on the construction of works which, when finished, would be useless.

No trace can be found of most of the petitions for syphons referred to in the report. In a matter of the kind where influential landholders are concerned, it is surely not asking too much if, in cases where their wants are asserted not to be attended to, they are asked to communicate with the Superintending Engineer.

56. In August 1888 the rainfall was exceptionally heavy, and whatever defects in drainage provision existed became apparent. A note by the Superintending Engineer, giving, as suggested by Mr. McNamara,† a list of all cases where the canals or

† Volume II, page 330

out of an average of 313,000 acres irrigated yearly, so that approximately two-thirds of the area irrigated has been altogether withdrawn from the cognisance of the patrol for some years past. As will be explained later on, the procedure in the case of annual *kharif* leases has, to a large extent, been assimilated to that followed for five-year leases, and irrigation beyond the boundaries specified in the application has ceased to be assessed, so that the patrol's functions have been much restricted; in fact, so far as the assessment of *kharif* crops, his influence, which was always more restricted than would be inferred from the report, has altogether disappeared.

66. The complaints, to a certain extent endorsed by the Committee, have been that unirrigated lands have been assessed, that blackmail has been levied, and that the law and rules have been oppressively interpreted to the detriment of the people of the country. On the other hand, there is the conviction of the Engineer referred to by the Committee in paragraph 157—

Volume I, page 59.

"that Government is more ill-used by the cultivators than the cultivators by Government, and that instead of the cultivators being themselves oppressed they are rather the persistent trespassers and offenders upon the patience of a long suffering department."

The opinion given is quoted by the Committee as evincing a want of sympathy with the people, though (paragraph 180) it is not denied that—

"In some villages, especially Brahmin and Rajpoot villages, there is an everlasting struggle carried on to get water without paying for it."

Volume I, page 67.

It must be obvious to any one reading the report that a large number of the witnesses more or less resent having to pay anything more than a nominal amount for so common a commodity as water. As observed by Mr. Power,* the great majority of the witnesses before the Committee were Rajpoots and Brahmins—

* Letter No. 849I of date the 31st August 1888.

"Castes who always claim special privileges and resent being placed on an equal footing with working cultivators."

With regard to the assessment of unirrigated lands, the same officer observes that—

"Nearly all appeals have reference to unauthorised irrigation. When there is proper evidence in support of the assessment, it must of course be upheld. My conviction in such cases is that in most such cases the canal underlings have been bribed to wink at the malpractice, and that the Canal Sub-divisional Officer's vigilance alone has defeated the fraud; they come chiefly from the Bhojepore pergunnah."

The Canal officers were quite aware that efforts would be made to bribe these subordinates, and doubtless, as stated by Mr. Power, exception was taken when the unauthorised irrigation was detected and the people had to pay twice over, especially where an unsuccessful appeal was preferred.

67. The evidence on the subject of blackmail labours under two disadvantages: first, that it mostly consists of statements which were in no way sifted; and secondly, the bribe was frequently avowedly given with the object of obtaining some illegal object. That the statements made are far too sweeping is obvious from the appendices to the report: for instance in section 105 a pleader's evidence is cited as to the corruptness of the overseer, which was expressly denied by witness No. 74, who is believed to be his own servant. Other witnesses, Nos. 86 and 90 may be taken as examples, refer to the incorruptibility of a particular sub-overseer. Another pleader (section 122 of the report) was equally mistaken, the village mentioned having been irrigated, in the first instance without permit, in the very next year.

The subordinate staff employed on the canals are probably neither better nor worse than those employed in other departments: whatever power they originally possessed has been, as already pointed out, largely reduced, and it is evident from Mr. Power's remarks quoted above that the bribes when given were, owing to the close supervision exercised, of little real use.

68. Replies more or less conclusive to the allegations made regarding assessments and unauthorised irrigation will be found in the reports of the Canal officers quoted in paragraph 3 of this Note; and as the remedy taken is of a nature to altogether exclude the possibility of the recurrence of such cases, it will probably be sufficient to allude briefly to the three cases brought forward by Mr. Mylne and commented on in sections 117, 118, and 119 of the report.

Volume I, pages 28-29.

In the case of the village Keshwa the Collector by no means admits the justice of the Committee's remarks. He points out that the assessees were in a position to know the proper procedure, and there was no apparent reason why they should deliberately allow the period of appeal to lapse and then seek a re-opening of the question. The Assistant Engineer concerned observes that at Ramnugger, between the 24th September and the 20th October, the only rainfall was one-tenth of an inch on the 9th of October, and that water was certainly required. The Collector, with all the facts before him, declined to interfere, and it can scarcely be fairly contended that the case was not considered by an independent tribunal.

Letter No. 849I, dated 31st August 1888. Note on paragraphs 157 to 163 of Committee's Report.

In the case of Banwar no appeal to the Collector was apparently made, the assessees accepting the Executive Engineer's order modifying the amount originally charged.

Note, dated 4th July 1888.

In the case of Chukwa, the Assistant Engineer points out that in the two years succeeding 1884-85 land was admittedly irrigated, and that his assertion is not that water escaped from five-year leased lands into the village, but that the water of about four channels was entirely diverted into the *khara*. Under any circumstances, and whoever might be the appellate officer, the Sub-divisional Officer had an undoubted right to prepare a demand statement, and it was for forcibly resisting a Government officer in the execution of his duty that a prosecution was instituted. Different defendants were tried by three different Magistrates, with the result, upheld on appeal by the Judge, that convictions were in every case obtained: in fact, three independent tribunals took a different view of the case from that which commends itself to the Committee.

Different as is the aspect which these cases present from different points of view, there can be no question that it is neither in the interest of the people nor of the Canal authorities that such disputes should arise: there is the further fact admitted in paragraph 21 of this Note, that the Canal officers were also to blame in permitting a supply of water through the outlets in excess of the requirements of leased areas, and the actual remedy taken has been to impose conditions which practically forbid unauthorised irrigation in the *kharif* season being assessed at all.

69. The instructions quoted at length below were issued by the Superintending Engineer with my concurrence, on consideration of the most prominent defects noticed in the Committee's report. The Circular refers to other subjects beyond the one under discussion which will be referred to as occasion requires:—

Circular No. 1, dated Arrah, the 21st March 1888.

To Divisional Engineers.

The proceedings of the Irrigation Committee having shown that in some cases an alteration in practice is desirable and in others that the rules are not strictly adhered to, I have the honour to request that particular attention may be given to the following instructions:—

I. *Complaints.*—A separate receipt must be given for every complaint; those belonging to one village or for the same cause must not be lumped together in one receipt. One day in each week is to be fixed by the Sub-divisional Officer for receiving complaints and it is expected that he will be present on that day to receive them unless unavoidably prevented, in which case the zilladar will be

authorised to receive petitions. The Sub-divisional Officer must also receive petitions on any other day on which they are tendered, if present at head-quarters. Executive Engineers must make arrangements to receive complaints daily, and petitions sent through the post are not to be refused on that account.

II. *Village channels.*—Great complaint was made that five-year leases were granted where no proper arrangements for the supply of water existed. In future no permit is to be issued until proper and sufficient village channels have been provided. No exception in this respect is to be made owing to money being deposited for a channel to be made by Government agency.

III. *Lands on bhaoli tenure.*—In the case of lands held on bhaoli tenure, the zemindar's signature is to be obtained before that of the ryots, and if it is refused, the ryots are to be informed in writing that a five-year lease will not be granted. Every such case is to be reported to this office.

IV.—*Five year leases.*—No preliminary application for five-year lease is to be received after the 1st of July; and in cases where, after three months, the signatures of all the ryots cannot be obtained, the special orders of the Executive Engineer are to be taken as to whether the lease should not be definitely refused All applications for a five-year lease must be accompanied by an application at annual rates if water is required to be given before the five-year lease permit is issued. The number and size of the outlets will be specified in the permit issued for a five-year lease, and no reduction in their number or size made during its currency.

V.—*Unauthorised irrigation.*—The provisions of sections 78, 79, and 80 of Act III (B.C.) of 1876 are to be strictly observed. No unauthorised irrigation is to be assessed without the written order of the Executive Engineer, and in passing this order it must be explicitly stated—

i.—That the person by whose act or neglect the irrigation occurred cannot be identified, and

ii.—That benefit has been derived. Where unauthorised irrigation has occurred through the negligence or with the connivance of a canal servant, no assessment can be made. Irrigation from aharas, which may have been filled or partly filled with canal water, is not to be assessed. The aim of Canal officers must be to prevent unauthorised irrigation rather than to detect and assess it when it occurs.

VI.—*Outlets.*—In the definition of village channel the outlet is expressly excluded. It follows that the Canal officer is responsible for the opening and closing of the outlet, and unauthorised irrigation occurring through the outlet not being properly looked after cannot be assessed. In the case of permanent outlets permits should be refused where unauthorised irrigation is likely to occur, and in the case of temporary outlets their size should be adjusted to the areas applied for.

VII.—*Shudkars.*—The signature of the lumberdar should be taken when land is for the first time entered in the shudkar, and the patrol should make all entries in his register in the presence of the lumberdar, or, where his attendance cannot be procured, in the presence of two or three leading villagers whose names should be noted. The shudkar should be frequently examined by the Sub-divisional Officer, the zilladar, and the sectional officer, and orders recorded therein.

It will be noticed that paragraph V clearly lays down the principle that prevention, not punishment, should be aimed at, and paragraph VI affirms the responsibility of the Canal Officer for the proper regulation of the supply through the outlet.

70. One result of the orders given was that in 1888-89, 71,794 acres were leased whilst 69,621 acres only were assessed so that it is clear that written applications had been filed where water-rates were levied. These areas are those assessed at annual rice rates. There may be more criminal prosecutions in future as recommended in paragraph 304 of the Committee's report; but, so far as unauthorised irrigation is concerned, it is proposed that in future, before water-rates under section 79 are imposed for *kharif* irrigation, the charge shall be approved of by the Collector. In such cases more than ordinary rates should usually be imposed.

THE FIVE-YEAR LEASE SYSTEM.

71. The deliberate opinion of the Committee may be said to be summed up in paragraphs 143, 144, which are quoted below—

"143. It is tedious to enter into such details; but it is necessary, in order to justify our assertion, that some portion at least of the extension of five-year leases is due to other causes than the popularity of the system.

"144. We are able to fully recognise the comparative advantages which are enjoyed by the holders of five-year leases. These advantages are appreciated by cultivators who possess no other sources of irrigation than those which the canal supplies. Among these the five-year lease system has extended by a healthy and natures process. But to the lands of others, who are not dependent on the canals for irrigation, the five-year lease system has been extended by other means. The procedure followed has been marked by constant pressure."

The individual cases quoted by the Committee will be commented on presently. In the meantime the following facts afford perhaps the most conclusive evidence that the Committee were in error in concluding (paragraph 135) that the area under five-year lease was due to any other cause than the increasing favour with which the system was regarded by the people. The Superintending Engineer was, in Bengal Government order No. 1921. of date the 8th February 1888, vested with power to cancel five-year leases. No single application has been refused. There leases, aggregating 1,456 acres, were cancelled in 1888-89, and five leases, aggregating 520 acres, in 1889-90. The area under five-year lease in 1888-89 was 200,102 acres against 210,555 acres in 1887-88, but applications for 15,050 acres were refused or not completed owing to the more stringent conditions as to channels and suitability of block insisted on. This year, 1889-90, the area under five-year leases will show a further increase. In fact, since the Committee sat, five-year leases for 65,500 acres have been concluded, and except where the Canal officers have raised objections, nearly every lease which has lapsed has been renewed. It is not denied that formerly assessments in cases of unathorised irrigation, a species of pressure not necessarily improperly applied, had some effect in inducing the cultivators to make a regular application for a five-years' lease.

Vol. I, page 42

72. Turning to the instances quoted. Nonhur is selected by the Committee as a very special case showing the pressure exercised by Canal officers. The case appears in a very different light the Hon'ble Mr. Nolan, whose remarks, dated the 10th July 1889, are quoted below:—

"The only investigated case on which Mr. Cotton and Baboo Jai Perkash Lall rely to establish the fact that coercion has been exercised of a nature to justify the general reduction of rates is that of the Nonhur villagers, described in paragraph 140 of the report. 'Could anything,' they ask, 'show more conclusively than the circumstances of this case the extraordinary pressure which is being put on the people to induce them to take five-year leases?' 'We can imagine,' they add, 'no clearer case than this, to use Mr. Solano's words, of "forcing five-year leases down the throats of the people." The sole witness examined in support of this case, Bishesshur Roy, No. 50, opens his statement by saying: 'There are no means by which our village can be irrigated; there is no channel.' With reference to this, we must consider the Committee's observations:—'It is true that the village is situated by the side of the Bhojepore distributary, and that it is bounded north and south by villages which are already under five-year lease.' Now if the village lies actually on the side of a distributary, and not, like many less fortunately situated, some miles off, what are we to think of the witness who says there are no means of irrigation? He goes on to depose that he had never heard of any man of his village having applied for a five-year lease, whereas it was ascertained from other sources that no less than three such applications had been made, one for 400 bighas, in the previous month. In addition to this oral statement, there is the documentary evidence of a petition presented to the Engineer in charge, which contains the words described in the report as 'pathetic'—'we accept the five-year lease to avoid your annoyance.' The annoyance consisted in charging cultivators for surreptitious irrigation charges against which they could appeal, if so advised, to the District Collector. And their subsequent conduct proved that an overwhelming majority of the ryots, a majority to whom the Committee would give the power of binding the minority, really wanted the lease, as is shown by the following statement of Mr. Odling:—

The applicants have since had ample time to reconsider their position. Any influence which Canal officers might have possessed has, for the time being at least, disappeared, and the result is that since the sittings of the Commission at Dhungain, a formal application, signed by the holders of the 420 out of 450 bighas comprised in the block, has been signed, and will be submitted to me for sanction under rule 10, page 229, Irrigation Manual. The holders of the 30 bighas who have declined to sign were probably the only real opponents of the lease, and able to a certain length to carry their co-villagers with them.

"Many persons will, perhaps, be inclined, under the circumstances, to answer by a distinct affirmative the question of the members of the Committee—Could anything show more conclusively than this

case the extraordinary pressure which is being put upon the people to induce them to take five-year leases? And if after a protracted enquiry this was the best evidence which the Committee found; if, with all the results of their investigating before them, they could not, as they say, even imagine a clearer case, what must we consider to be the character of the evidence in support of other allegations of coercion?"

Mr. Mylne does not give the facts on which he considers pressure was put upon the village of Chukwa, but it is clear from his letter of the 12th August 1886* that a majority at least of the cultivators of Jugdispore desired a lease, the difficulty not being with his tenants, but with rent-free holders. The lease has since been renewed.

* Volume II, page 172; also Mr Odling's dissent. Volume I, page 99, paragraph 24.

As regards the other cases, it is clear that the real object of the Canal officers was to prevent unauthorised irrigation, *i.e.*, to prevent a valuable commodity, the property of the public, being used without payment. Whether the lease was annual or five-year was not a matter of concern. What was aimed at was the assessment in some regular way of land the crop on which was benefited by canal water, and the cessation of irrigation without application or permit. The mistake made, which has been fully acknowledged, was the facilities given for unauthorised irrigation by permitting the cultivators to allow a supply of water to flow through the outlets in excess of the legitimate demand for leased areas. This error was being gradually corrected, and during the last two years the Canal officers have, as they are legally bound to do, themselves taken charge of the supply of water through the outlets.

COMPLAINT OF DEFICIENCY AND IRREGULARITY OF WATER-SUPPLY.

73. This complaint is admitted to be now practically non-existent. It has disappeared with unauthorised irrigation. The Engineers have adjusted the outlets to the areas to be irrigated, and have temporarily stopped the supply when it was found that water was being used beyond the leased areas: in some cases they have instituted criminal prosecutions. There are still difficulties with regard to individual holdings when there are village quarrels, or where the more powerful men are disposed to oppress their weaker brethren. The absence of complaint on this head in the Jugdispore estate was in truth more due to the care and trouble taken by Messrs. Burrows, Thomson, and Mylne to see that the supply of water was fairly distributed and economically used than to any special consideration in the matter of supply shown to them. It has at times taxed even their energies to secure a fair division of a supply of water which, properly and economically used, was ample. Unfortunately there are many non-resident proprietors and—resident or not—no others who have an establishment competent and willing to carry out distribution arrangements so effectively as the firm named.

Pamphlet by Baboo Kandjhi Sahai, page 34:—"The supply of water was satisfactory, the prayers of the cultivators were attended to, and, generally speaking, the arrangements were good."

Volume I, page 46, paragraph 147.

74. The Canal officers can secure a proper supply of water to lessees (blocks), but ordinarily the internal distribution must be managed by the lessees: at times a subordinate has been deputed to insist in the water not being monopolised by one section of the cultivators; but as regards particular holdings there will always, in the absence of influential and fair-dealing *lambardar*, be a chance of individuals suffering. So long as *lambardars* are remunerated their responsibilities in this respect can be enforced, and default can be in most cases be punished, though inadequately.

75. There remains the important question whether the supply allowed should be calculated on a *total absence of rain*, such as occurred in 1888, or whether a low average, say half to three quarters of an inch in the first ten days of October, should be reckoned on. In the proposals which will be made later on the experiences of 1888 will be for the most part relied on; but the avowed object will be that in such years which are not of frequent occurrence (though those in which there is a scanty rainfall are) there shall be some difficulty in obtaining a full supply. The quantity of water supplied will suffice, but there will not be the ordinary margin for waste, which, indeed, is then less likely to be permitted to occur.

76. In the earlier days of irrigation, before the results of past experience were available, permits were issued in the *kharif* season for irrigation in villages which it is now known cannot be satisfactorily supplied in a season of pressure on the canals, and for which leases are consequently now refused. An example of this kind is referred to by Mr. Solano, who, however, states (as is the fact) that no contract for irrigation in this season is now entered into within several miles of the place referred to. The Canal officers were unable, until they had experience to guide them, to determine with any approach to accuracy the irrigating power of the canals, especially with indifferent channels and a system of cultivation which was itself in process of yearly change. There were therefore grounds for complaint—unavoidable under the circumstances mentioned above.

Volume II, page 230.

77. It will be noticed that the Committee* expressly state that the power vested in Canal officers of stopping the water-supply has been rarely exercised, and that in one case only, where redress was promptly given, was there any ground for complaint.

* Volume I, page 147, section 149. Volume II, page 16, paragraph 8 of memorial.

SYSTEM OF ENQUIRY INTO COMPLAINTS.

78. As stated by Mr. Power†—

"The great desideratum is to have a large proportion of objections disposed of in the quickest time possible by officers of an average high class."

† Letter No. 8491 of the 31st August 1888. Note on paragraphs 252 to 259 of Committee's Report.

The nature of the complaints made is now analysed in great detail in the Superintending Engineer's Revenue Report. Every complaint made, though it may in point of fact be identical with others previously or simultaneously preferred, is separately numbered, so that the information contained at page 18 and Appendix XIV of his report for 1888-89 may be looked on for all practical purposes as complete. The whole proceedings in the case of twenty consecutive complaints from the last subdivision inspected by the Superintending Engineer have been examined. In effect they are little more than requests for alterations, and eventually the decision arrived at is mostly acquiesced in by the person making the complaint. With some 200,000 different charges to be made yearly there are certain to be mistakes, and it appears to follow almost as a necessary corollary that the officer charged with the assessment should also have the power of correcting it. In fact, in the words of Mr. Inglis—

"As regards the second point, the Canal officer who makes the assessment is primarily in the same position as any other merchant or trader who submits his account for goods supplied or for work performed. It appears to me only a matter of ordinary reason that any complaint as regards a charge in the bill should be made in the first instance to the person who prepared the account. It is true that the enquiry by the Canal officer into the assessment made by himself is termed a 'judicial proceeding,' but I do not see how this affects the question. What is desirable is that mistakes in the assessments should be put right as soon as possible, and this can, in my opinion, be done sooner by the person who made the mistake than by any one else. The Canal officer is no doubt in a different position to that of a private trader when the question of enforcing payment of a disputed item in the account is considered. The law that provides that in case of debts due to Government payment can be enforced without recourse to the civil courts applies to 'water-rates' as it does to other demands, such as rent of land, cesses on land, &c. But the decision of the Canal officer is not final. There is a right of appeal to the Collector, who is certainly not a prejudiced officer, under the present system of assessment."

Volume II, page 55.

79. There have as a matter of fact been comparatively more complaints in Orissa and nearly as many in Midnapore, where the assessments are not made by Engineers and the percentage admitted is even higher. The grievance which is most strongly insisted on "unauthorised irrigation" it is proposed to deal with in another and more drastic manner, and an alteration in the agreements regarding the supply of water in the hot weather which furnish the majority of complaints regarding insufficient supply will also be made, so that little except ordinary mistakes will remain to be dealt with by the assessing officers under this head. In 1888-89 upwards of 2,000 complaints were at once disposed of in favour of the applicant, and it is clear that any system which would have entailed a reference to another authority would have caused needless expense and trouble to the persons concerned.

Revenue Report, 1887-88, Resolution, paragraph 10.

All that is wanted is that the assessing officer shall be informed of the objections raised, and have an opportunity of correcting an error, if one has been made: after that it is in the interest of both Government and the cultivator that an easily accessible appeal to an independent tribunal shall be available.

80. It is proposed to secure this end by allowing appeals direct from the orders of sub-canal officers to the Collector or to a Deputy Collector specially vested with the powers of a Collector in this respect. This is apparently the course recommended by Mr. E. Solano in the following extract from his letter dated the 31st December 1887:—

Volume II, page 222.

"II.—Sub-divisional Officer to prepare *khationis* in the usual way; notices to be given to each assami, stating the quantity of land measured against him and the amount of demand.

"III.—All appeals to be presented and disposed of by the Sub-divisional Officers. If the objection is rejected, he is to give the petioner a copy of this order.

"IV.—The appeal from the Sub-divisional Officer's decision to be direct to the Collector."

This is the system proposed to be followed in future. Mr. Solano laid much stress on the number of Sub-divisional Officers being increased. As a matter of fact there are nine sub-divisions as recommended by him, of which the two in the Eastern Sone Division are not by any means the largest.

The result of the appeals so far made to the Collector has, as the statement below will show, not been unfavourable to Canal officers, and in cases requiring it further evidence is called for and taken, should the record not be altogether satisfactory:—

Statement showing the result of appeals preferred to Collectors against orders of Canal Officers of the Sone Circle.

Year.	Number of appeals.	Appeals allowed.	Appeals dismissed.	Pending.
1885-86	148	51	75	17
1886-87	73	9	55	9
1887-88	41	15	20	6
1888-89	33	3	15	5
Total ...	295	78	165	37

In the Collector of Shahabad's letter No. 849I. of the 31st August 1889, it is stated that 161 complaints had been disposed of by him and his predecessors between 1879-80 and 1888-89, of which 131 were dismissed, 19 allowed wholly and 11 allowed in part.

81. Mr. Luson, who investigated the subject, recommended a classification of complaints which has practically been followed. He was of opinion that the true method of dealing with the subject was to anticipate objections, or rather to force their being preferred before the demand statement was finally prepared. This is what he says on the subject:

"I wish here to suggest a practicable means of discovering as soon as possible the areas in which there has been a failure of the crop owing to deficient supply. The Superintending Engineer has given his general approval of it. It is to insist upon a report by a certain date from each *sattadar* of the specific fields in which the crops fall below a certain standard, say that the outturn will be below 2 maunds a bigha. In the case of *dhan* these reports should be brought or sent into the canal office before November 1st; and if any *sattadar* neglects to send the report in time, he should be at once called upon to explain personally. The *sattadar* is overpaid for the work he does at present, and there seems no reason why this extra duty should not be imposed.

On receipt of the reports, the Sub-divisional Officer would be able to mark down the bad crops and to make arrangements for investigating the causes before the cutting; but in many cases he has a very good idea of where the supply was deficient, so that he could direct the measurements in these places first and commence enquiries before these reports come in."

In the part of this note dealing with the alterations recommended it will be proposed that *lambardars* shall be bound to report at the end of the *kharif* season, the 1st of November, what complaints require investigation, and a separate report will be required from sectional officers on the 15th October or thereabouts as to the state of the crop in each lease. These measures, it is thought, will ensure the Sub-divisional Officer being in a position to omit from demand statements or to include in remission statements any areas on which water-rates are not properly chargeable. The onus of ascertaining what remissions should be granted will in fact, to a limited extent, be assumed by Canal officers, with or without complaints.

It is hoped that the means taken will ensure speedy redress in cases where there are just grounds for complaint.

82. The exercise of magisterial powers by certain of the Canal officers is noticed in the concluding sections of this part of the report. The Committee remark:—

"We are glad to notice the very sparing manner in which these powers are now exercised, and we have no reason to doubt that, as a general rule, they have been exercised in the past with discretion. We are aware that the withdrawl of the powers will weaken the hands of the Engineer officers at times of crisis."

They add that in the Buxar Division the powers were not then exercised, and that as it was objectionable on principle that Engineers should exercise powers in departmental cases, they recommended that the powers should be withdrawn.

In the following year practically every Magistrate and every available constable in Shahabad was engaged in guarding the canals and distributaries, despite which they were cut in several places, and the leased areas of some villages injured and in some cases destroyed by their supply of water being cut off. One special case is mentioned in which the rice on 512 acres, worth approximately Rs. 16,000, was injured in this way. In the face of these circumstances it would appear to be preferable to leave matters as they are, the control of the Magistrate of the district, to whom every case is appealable, being sufficient to ensure that the powers are exercised with discretion. This is the opinion held by Mr Power.

Superintending Engineer's Note of date the 10th December 1888, paragraphs 11 and 12.

It is desirable that Assistant Engineers should, as in other provinces, be called on to pass an examination in elementary law, and one of my recommendations will be to this effect. The examination will have reference to their work both as assessing officers and to the class of cases they are authorised to try when vested with magisterial powers.

COMPLAINTS AGAINST THE COLLECTION DEPARTMENT.

83. The Committee remark that the complaints against the Collection Department arose to a considerable extent from demand statements, in which it was known that alterations would have to be made, having been forwarded to the Collector for realization. Pressure was brought on the Assessing

Department to forward the demand statements by fixed dates with the result mentioned above. They add :—

"We are glad to say that this matter, as soon as it attracted attention, was enquired into and stopped."

	Rs.
1885-86	... 87,344
1886-87	... 34,640
1887-88	... 18,313
1888-89	... 16,284

Includes remissions disposed of by refunds or cancelled demand statements.

The progressive diminution in the remissions yearly allowed, which are marginally noted, wiill show that a marked improvement in the accuracy of the demand statements has ensued.

84. The realization of arrears of water-rates by the distraint procedure is referred to in section 173 of the Committee's report. As the water-rate is a charge inferior to rent only on the crop, this method of recovery of which the legality is unquestioned appears *primâ facie* to have much to recommend it. The real grievance consisted in the costs, which it is stated averaged Rs. 8-12-10 per case, the average demand being under Rs. 3. The costs amounted to an enormous addition to a charge, however moderate, in itself.

Volume I, page 54.

The practice for reasons not clearly apparent, but probably owing to the heavy costs entailed, which are referred to in the following remarks recorded by one of the Hon'ble Judges of the Calcutta High Court has of late years been abandoned :—

"A continuance of the present practice must ruin the ryots. No doubt water-rates should be promptly paid, but it is not always that a ryot has cash in hand to meet such demands, however honest he may be. To make him pay tenfold is certainly not calculated to improve his position. I heard while at Arrah that a somewhat serious attack had been made upon the person of an irrigation officer. It is not improbable that these distraints may have provoked such conduct."

Volume I, page 54.

Apart from the question of costs, there does not appear to be any good grounds for abandoning what appears to be a peculiarly legitimate charge on the crop which was matured by the aid of canal water, and the law should, I think, not be changed in this respect unless some summary powers are given by law, as recommended by the Deputy Collector, for the recovery of sums under Rs. 10 in amount.

85. The Committee make the following remarks on what is known as the joint and several liability system :—

"The complaint which has been urged before us most frequently relates to the provision in five-year leases under which all the co-signatories of the lease are made jointly and severally liable for the payment of the whole of the amount due under the lease. This provision applies to leases in what is known as form C. In D form leases, under which collections are made by a contractor, there is no such provision. The object of rendering all co-sharers jointly and severally liable was apparently to instil into the minds of all a sense of joint responsibility under which the influence of all would be brought to bear upon each individual to pay up the amount which might be due from him singly. And this object is no doubt one of importance. The principle is calculated to work well in some cases. But it is obviously liable to abuse; and so we find that in its widespread operation in the case of water-rate leases, it has been applied as an engine of injustice."

Volume I, page 54.

Instances of oppression are adduced, and it is stated that the system is opposed by the Engineers who have found from experience that it deters cultivators from entering into five-year leases.

The soundness of the Committee's conclusions as to the oppression exercised is strongly questioned both by the Collector and Deputy Collector. An extract from the observations made by the former, Mr. Power, is appended :—

"*Paragraphs* 174 to 176.—I beg emphatically to protest against the conclusions arrived at in these paragraphs. Out of Rs. 3,44,945, to which the joint and several liability clause applied, a sum of Rs. 1,460 only was recovered from persons in excess of their proportionate share. In 1887-88 none of the demand was so realized; consequently the percentage recovered in excess is very small indeed. There is no reasonable ground for the imputations that the power has been used as an engine of injustice and to save the collecting staff trouble. It is true that in a few, a very few, cases the liability has been enforced, but under what circumstances? After each assessee had paid his individual share, a balance remained unrealized, the contracting body was known to be well able to pay, and it often happened that defaulters were reasonably believed to be men of straw, whose names were included in the lease by connivance of the leading signatories in order that a remission might be granted on the ground of their poverty. Is it not right that when a certificate has been made out against the whole body, execution should be taken first against the leaders, that is, the zemindars, thikadars and headmen? To take out execution simultaneously against each co-signatory, or his proportionate share of the unrecovered balance, however equitable in theory, is totally impossible in practice. There is an excellent reply to the Committee's remarks on Debi Mahtow's case. It was easy enough for Debi Mahtow, thikadar of the village, to make his ryots pay what the Irrigation Department tehsildar failed to collect. A tehsildar pays occasional visits only. Anyone who finds it inconvenient to meet him can easily find it convenient to visit a relation at some distance until he has moved on. A resident thikadar, however, knows exactly when a ryot is in a position to pay, when heh as received his poppy advances, when he has sold his linseed to the itinerant bepari, and what the heifer he sold at the fair fetched Once a tehsildar is out of the village he is done with temporarily at least; but the thikadar is always with him I need say no more to show that a resident zemindar or thikadar has means of applying for payment at the right time not open to a canal tehsildar, and more direct power of enforcing payment than is possible for the collecting staff of the Irrigation Department to exercise. The Special Deputy Collector's explanation on this subject is expressed in rather forcible language, but I think his indignation is not by any means unjustifiable."

Joint and several liability.

Letter No. 849I. of 31st August 1888.

86. The Deputy Collector is even more emphatic in his objections to the conclusion drawn by the Committee that—

Letter, dated 25th May 1888, paragraphs 9 to 13.

"Nowhere in Bengal has the law been more inconsiderately administered with larger and more obvious opportunities of abuse than in Shahabad."

He points out that in the two years, 1885-86, 1886-87, during which he applied the rule, Rs. 1,460 only was recovered from other than real debtors, and avers that the censures bestowed by the Committee in individual cases were seldom warranted by the circumstances which were not fully known to them. The Committee state—

"We do not condemn the systemn absolutely; the power that is implied may conveniently be held in reserve for extreme cases, to be exercised with great caution; but when the opportunities for its misuse are so abundant as they now are in the collection of water-rates, we do not think that the exercise of the power can be justified, or that it will be possible to impose any system of check which will prove effective."

Vol. I, page 55, section 176.

87. It appears to be doubtful whether the condemnation pronounced by the Committee on both the system and its results was not too sweeping. It is, however, hardly worth while to retain a rule, which has some influence in deterring cultivators from joining in applications for water for the sake of the small amounts recovered under its operation. These amounts would be further reduced if, as certainly would have to be the case in future, bad debts were recovered *pro rata* only from *all* the signatories of the lease.

88. At present amounts due on five-year leases only are recovered by instalments, and the Committee, whilst entirely approving of the principle on which the present system of collection is based, viz—

"That a receipt shall be given for a fixed and known amount specified in it," think that "the effect is somewhat hard on the rate-payer; and while maintaining the rules substantially in their integrity, we consider that they should be adapted to the receipt of two instalments of the rate every year in equal parts instead of one."

The Collector and Special Deputy Collector both express the utmost repugnance to this proposal. They point out that it will necessitate increased establishment, and the latter observes that on the whole of the 238 petitions, of which abstracts have been given in the report, he has only been able to find one man who has applied for the change. Seeing that water-rates on two-thirds of the irrigation is now paid in two instalments, it is probable that the extra work would be less formidable than is supposed, but as it is proposed to lower the rates for *rabi* irrigation, and not to encourage annual leases for rice irrigation, no further alteration appears to be required. Mr. L. Mylne observes :—

"A great deal may be said against recovering rates in two instalments, and much in favour of payment in one instalment about harvest time, when the cultivators is in funds and can command cash."

Letter dated 30th June 1888.

89. *Certificate procedure.*—The Committee (paragraph 179) state that, whilst there are no actual proofs of the fact, they—

"have no doubt that the same processes have been resorted to for the recovery of arrears of water-rates in Shahabad as are invariably adopted in other parts of India, and in other departments where large collections have to be made by the collecting authorities direct from an almost infinite number of cultivators."

Letter dated 30th June 1888.

They, however, admit that—

"It is possible to establish a strong case on the other side In some villages, especially Brahmin and Rajput villages, there is an everlasting struggle carried on by the cultivators to get water without paying for it."

It is proposed in paragraph 266 of the Report to take away from the Special Deputy Collector his powers under the Certificate Act. The Collector strongly objects to this suggestion, as will be seen from the extract quoted below:—

"As pointed out by the Special Deputy Collector in his note, there is nothing illegal or unauthorised in the present procedure, and I am strongly opposed to any change. From experience gained in the Road Cess Department, I am certain that not only would there be great delay in disposing of the certificates, but ultimately the assessees would suffer. Supposing the change were introduced, what would happen? The certificates would be referred to the Deputy Collector in charge, who has already upwards of 2,000 on his file more than he can deal with effectively; when, after much inevitable correspondence and delay, sanction had been accorded to an increased establishment, the notices would be written up and made over to the nazir for service; that officer is fearfully overworked as it is—see report of Salaries Commission, pages 251-254. So what happens? Further delay occurs in serving them; then (after the defaulter has had a month's warning that he had better conceal it) commences the search for property to attach: the peon who is sent out reports none available; he has not the smallest interest in making adequate enquiries, and the defaulter is only too ready to pay a consideration for a report of "no effects." Then ensues a complication about recovery of process fees. Altogether, I cannot conceive any procedure more likely to increase work, retard collections, involve loss of revenue, and cause harassment to defaulters than to transfer execution of certificates to the Collectorate General Department."

Certificate procedure.

Letter No. 849I, of the 1st August 1888.

The proposal has no special connection with the other alterations proposed on the system of irrigation administration now under discussion, and it involves considerations not touched on in the report. It is therefore reserved for separate treatment after the other changes proposed to be made have been carried out.

It may be mentioned that in Orissa and Midnapore the collections under the Certificate Act are not altogether satisfactory. The matter is obviously one in which the opinion* of the Board of Revenue is entitled to almost paramount consideration.

*Letter No. 634A. of the 25th June 1888, paragraph 11.

90. The enforcement of the payment of even just dues can never be a pleasant proceeding for the payees. It is certain that any faltering in pressing collections can only lead to the accumulations of arrears, a part of which will never be cleared off, and thus lead to loss to the public treasury. The remainder will eventually have to be recovered by the means which hesitation was felt in the first instance in employing. The Deputy Collector gives the following as the result of his experience in the matter:—

"Again, I tried the experiment of keeping separate registers of rates due from the biggest and the most intelligent zemindars of the district, and addressing them by letters to pay up, but without effect. Only in one exceptional case, viz., that of the Bohoea firm, it must be said to their credit, I have been successful. The biggest zemindar of the district, viz, the Maharajah of Doomraon, I regret to have to observe, has given us no inconsiderable amount of trouble. Letter after letter and reminder after reminder are sent to the *Dewan* calling for rates due, but still the money is not forthcoming, and even a reply, except in rare instances, is not vouchsafed. A letter from even the Collector of the district is not sufficient to induce the Raj to pay up the full amount due from it. During the past three years, I was obliged, in a large number of cases, not only to file certificates and issue notices of demand against the Maharajah, but also to issue warrants of attachment. Similarly, the rates due by Baboo Baij Nath Sahai, a big zemindar and mahajan of the town, is never paid without coercive measures It is a noteworthy fact that he always waits for a notice of demand, inasmuch as it gives him a month's time after the notice is served, and which he considers a great advantage. I can multiply such instances, but it is hardly necessary for me to do so here. Suffice it to say that when such is the conduct of the biggest and richest men of the district, what can be expected of the less favoured."

Note dated 25th May 1888.

With such examples it is scarcely possible not to recognise the truth of the observations with which Mr. Power concludes his notice of this matter:—

"I would ask whether, in the face of the difficulties specified, any display of weakness, however amiable, would not result in loss of public revenue; in other words, in making less refractory people pay an undue share of general taxation? It is charged against our collection department that the aim of its policy is *Debellare superbos* (see written statement of Laluram Paure, ex-Sub-Inspector of Police, Appendix IV. Part IV, section 13, page 212, Volume II). The allegation appears to me to involve an unconscious compliment. If the poor only had been rigorously kept up to their engagements, and favour shown to "the rich and the litigious," we should never have heard of a Commission being required to investigate grievances."

Letter No. 849I of the 31st August 1888.

PART IV.—RECOMMENDATION OF THE COMMITTEE.

91. I do not propose to discuss the recommendations *seriatim*. The points on which alterations in the system are considered to be desirable have been generally indicated, and they will now be specifically detailed. Several of the recommendations made by the Committee involve an alteration in the law which it may not be convenient to take up at present, and accordingly the system proposed will have reference to the existing law, the further changes possible, only after the law has been altered, being separately noticed.

The question of rates will first be considered. This is what the Committee says on the subject:—

"Although the present rates will not be considered high by those who are accustomed to irrigation in other provinces in India, we found in our enquiries that the most universal complaint against the irrigation system in South Behar was 'the excessive rate.' So general indeed and persistent were these complaints that we are satisfied that no remedies we may suggest, no improvements we may devise, will be accepted by the people as any adequate outcome of the results of this Commission, unless they are at the same time accompanied by a substantial reduction in the water-rate. In deciding this question, all the circumstances of the Sone irrigation must be considered. It must be remembered that canal irrigation is unpopular. It is alleged that Sone water is injurious to the soil, to man and beast. It must never be forgotten that an old system of irrigating from ahars and pynes prevailed before its introduction, which the ryots declare was more beneficial to them than the present system which has superseded it. It is admitted that well irrigation is more beneficial to the crops than canal water. The country is to be water-logged; the health of the people is said to have suffered. The vigorous and often injudicious assessment of water, combined with the energetic realisation of the existing rates, has embittered both zemindars and ryots."

Necessity of some reduction.

Volume 1, page 85.

Further on they say:—

"There are those who speak favourably of the canals and of the good they have rendered the country. But the preponderance of testimony, including that of the most moderate witnesses, is in favour of a reduction in the rate."

Volume I, page 88.

It would be strange if the purchasers were not in favour of reduced prices. The fact is that canal water is indispensable, and that the one matter in which there is still real interest in the proceedings of the Committee is in that of rate. In a late publication, to which reference is made in paragraphs 134 to 140, Baboo Kaudhji Sahay, B.A, B.L., Secretary to the Co-operating Committee, observes:—

"Such is the summary of the recommendations of the Commission. I shall begin with the last, for the lowering of rates, first, as being the most important, and without which, in the words of the Commission, no improvement will be accepted as an adequate outcome of the results of the Commission."

92. Practically, the discussion of rates may be confined to that for rice, which is comparatively of overwhelming importance, and the rate for five-year leases, which the Committee propose to reduce from Re. 1-4 to Re. 1 per local *bigah*, is that which must rule the other rates.

93. It must not be forgotten that the validity of every one of the reasons given by the Committee as a reason for reducing the rate is strongly contested.

It is stated that canal irrigation is unpopular. In the last two years practically the whole of the water available in the *kharif* season has been disposed of. It is suggested that this demand, which cannot be questioned, is partially at least due to the *aharas* having been rendered useless. The fact is that in the jungle portion of the Jugdispore estate, where there were no *aharas*, not only has the transformation from *rabi* to *kharif* cultivation in the land irrigated by canal water been complete, but the inhabitants of Belgaon, who could get water from one of the half dozen efficient *aharas* in the district for nothing, positively prefer to pay Rs. 6,000 a year for the regularity and convenience of canal irrigation.

One apparently strong instance illustrating the assertion made that *aharas* have been destroyed by the canals is repeatedly referred to as a convincing proof of the fact, though it is in the same page* of the report admitted that the Engineers took immediate steps to remedy their own mistake.

* Volume I, page 24, section 64.

94. It is stated that the Sone water is injurious to the soil, to man and beast. The crop experiments made by canal officers are derided. Experiments made by an independent civil officer and by an eminent firm of European zemindars show that exceptional crops averaging 30 maunds of paddy per acre are grown on almost every variety of soil, including *kewal*, which is repeatedly asserted in the report to be injured by canal water. The average of the Canal officers' experiments to date is two maunds per acre less than the estimated yield of average crops in a year in which there was no rain in the *hatiya*: so that the crops depended on canal water only, and more than ordinary loss might have been anticipated.

Volume I, page 24 section 64.

95. The injury to *aharas* is strenously denied by the Superintending Engineer, who even considers that their effective supply has been increased by the extra quantity of drainage water they must necessarily receive from the canal water poured over the country. It is not denied that well irrigation is superior in the case of opium, and the crop experiments show barley, but the chief crop, rice, is not irrigated by wells, and wheat appears to thrive equally with well or canal water.

Volume I page 121.

96. These in general terms are the replies of the Canal authorities. A special civil officer was deputed to investigate the subject with special reference to the rise or fall in the rent of lands irrigated by the canal. This is what he says on the subject:—

"I have recorded in my note-book statements gathered on the spot as to the increase of rents throughout the villages irrigated. I will give a few examples only. In experiment No. 2, the village Danwar has been held by————in *thika* from the Dumraon Raj for 30 years; the ryots are nearly all Rajpoots and claim that their holdings are *guzashta* (*i.e.*, with a right of occupancy at a low rent); they say that————is demanding an increase of 5 annas a bigha rent, simply because the lands have been increased in value by the regular crops they now get from canal water in place of previous precarious outturn. In experiment No. 24, 15 annas of the village is held by Baboo————, an Arrah pleader, who filed a long written statement before the Committee asking for a reduction of rates. From the shareholder of 1 anna, the putwari and the ryots, I found that the *jamabandi* of this village has risen since the opening of the canals from Rs. 1,800 to Rs. 3,200. I was told that no ryot is considered to have any right of occupancy except those specially declared *guzashtadars* by the courts; no *pattas* are given, and rents are regularly increased. This village lies between the Koilwar branch and the Arrah main lines close to their junction. Experiment No. 25 bears more directly upon the question of the rate. The whole area under cultivation is only 29 bighas, most of the village having been acquired for canal works; the area being below 50 acres is too small for a five-year lease, yet a mahajan, who foreclosed a mortgage upon the cultivated lands, is content to irrigate *dhan* year after year paying Re. 1-14 a bigha. Similar instances to these will be found throughout my note-book.

"Mr Odling in his minute of dissent from the Committee's report in paragraph 19 stated:—'It was not to be expected that either zemindars or cultivators would care to bring before the Commission cases in which the value of their property had been increased. The road cess revalution will afford some means of estimating the effect of the canals on the value of the landed property in the districts affected.' I have accordingly endeavoured to analyse the figures filed before the Collectors under Act IX of 1880 and its predecessor, and to compare them with the areas upon which canal water has been regularly taken.

"The periods when the road cess returns were filed are extremely convenient for comparison at the present time. The last returns were filed last year, and the former returns in 1876 A. D, when canal irrigation was just commencing.

"To make the comparison, I first obtained from the Engineers a list of all the villages in which the areas now under five-year leases exceed 400 bighas, and then identified them with the Collector's maps. This was a work of some little difficulty, as in some cases I found that in order to secure a 'block' pieces of another village had been included. I then consulted the original papers, filed by the landlords or their representatives, referring to these villages. As from my previous connection with the districts, I was personally acquainted with the officers in the Road Cess Departments in Shahabad and Gya, I found little difficulty beyond clerical labour. Summary valuation by the Collector I have taken no notice of, and all returns which on comparison were obviously wrong, I have rejected. Little exception can therefore be taken to the figures given.

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"We then get this result:—Taking canal water upon one-third* of the area of a large number of villages enables the zemindar to increase the rents per bigha in these villages at least 10 per cent. more than he could otherwise; in other words, regular canal irrigation enables the landlord to obtain 30 per cent. more from the land than he would obtain without the canals.

These results seem to me to have a very important bearing upon the question of the reduction or increase of the rates for water. For the extra increase of rent is the true test in South Behar of the advantage derived from canal irrigation. As the Rent Law Commissioners on page 73 of volume I (1880 A. D.) wrote:—'Enhancement on the ground of increase in the value or price of the produce is a stern reality to the ryots of Behar. While in Bengal the ryots are the stronger and the landlords the weaker party; in Behar it is just the reverse, the ryots being (save in some exceptional places) in a depressed condition, and incapable of maintaining against their landlords the rights given them by law.. The Bengal Tenancy Act, 1885, is tending to improve this state of things, and the use of the prescribed form of receipt is being adopted, though it is far from general. But the figures comparing the irrigated and unirrigated villages above mentioned relate to times before the Bengal Tenancy Act became law, and I have no hesitation in stating in regard to the————estate in particular, and to almost all the estates in the Sone Circle, except the Dumraon Raj, where there are Rajput *guzashtadars*, that any improvement in the amount or value of the produce eventually finds its way into the pockets of the landholder in both *bhaoli* and *nagdi* tenures. Reduce the five-year lease rate four annas (*i. e.*, 20 per cent.), and the landlord, consciously or unconsciously, will eventually get his rent-roll increased by 20 per cent. on the land irrigated.

"I may here mention that in my opinion the improvement shown above is in no way due to the superior fertilising power of canal water. I know of no material difference between the Sone water and the rain water stored behind bunds. Putting aside the increase of area under cultivation, improvement is due, it seems to me, to two things—(1) the substitution of the easily grown and more valuable *dhan* for *rabi* and inferior crops; (2) the considerable raising of the *average* annual outturn by a full crop being always secured instead of outturns varying with unsatisfactory rainfalls.

"All the figures given in this paragraph practically relate to *dhan* only. In the figures for the three districts only five-year leases are considered; in mehal————, *dhan* on annual lease is included, and as the percentage of *dhan* in five-year leases is more than 83 per cent (*cf.* Superintending Engineer's annual revenue report for 1887-88 paragraph 4, where he also writes that 'five-year leases are practically long leases for the irrigation of kharif crops only'), consequently we are right in considrring *dhan* as the crop which has caused the great increase in rents.

* From the figures given in appendix No. II, it will be seen that the area irrigated on the average in the years 1883-84, 1884-85, 1885-86 A.D. in the irrigated villages is 38·6 per cent. of the former cultivated area in those villages 30·49 per cent. of the present cultivated area, and 32·98 per cent. of what this increased cultivated area would have been if it had only increased at the same rate as in the unirrigated villages.

"All the figures given above I can personally vouch for; the calculations have been tested in the offices of the Superintending Engineer of the Sone Circle and the Bengal Secretariat"

As regards the *aharas* he observes—

"If the majority of the Commissioners had seen the rice crop this year, which was not irrigated from the canals, I feel sure that they would not have written in paragraph 276 of their report as one of the chief reasons for the reduction of the rates that 'It must never be forgotten that an old system of irrigation from *aharas* and paynes prevailed before the introduction of the canals, which the ryots declare was more beneficial to them than the present system which has superseded it.'

"It is only by seeing the crop on the ground in a season like the last, when the *Hathia* and *Chitra* rains entirely failed, that a clear comparison can be made of the two systems."

Mr. Power, the Collector of Shahabad, is of opinion that no case for reduction in the kharif rate has been made out. He observes :—

Rates.

Letter No. 849I, dated the 31st August 1889.

"*Paragraphs 275 to 290.*—Admitting the force of the arguments summarised in paragraph 276, and adding that the history of the canals with their expensive head works designed for a very much larger scheme would not admit of anything like a commercial rate, I am still of opinion that the rate of Rs. 1-4 per bigah for leased areas is not too high, and that no case has been made out for reducing it. The bulk of legitimate complaints refer to 'unauthorised irrigation' charged for at Re. 1-14 a bigah, or, if penalty rates are imposed, Rs. 3-12. There is no general complaint that the five-year lease rate of Re 1-4 a bigah is too high; the evidence cited in paragraph 277 does not prove anything relevant to this issue. Owing to a number of causes irrigation on the Dumraon estates has resulted in friction; it is unpopular, but so in the Revenue and Public Works cess, so is the Income-tax, and so is every institution to takes cash out of pocket without an immediate return, no matter what benefit, past or potential, may attach to it. Mr. Solano's villages referred to were practically beyond the reach of canal water, and for a couple of years they suffered because no regular supply was available: this is no reason for reducing the rate in villages where water can be supplied, though it might be one for differential rates. The Beheea firm does not press for a reduction of rates; it is obvious why tenants of their village mentioned should request them to spend a large sum on repairing an ahar which will serve for irrigation in ordinary years, save Rs. 6,000 a year, and leave that sum available for payment of rent. It may be assumed as certain that if in a year of scarcity the villagers wanted canal water, and water (though intended for others) was in the canal, they would get it somehow: see also my remarks against paragraphs 41 and 42. In all other rates proposed I concur with the Committee."

98. The following remarks are taken from a note by the Hon'ble Mr. Nolan :—

Note, dated 10th July 1888,

"The whole report of the Committee seem to be directed towards proving that an exception should be made to this primary rule of financial justice in favour of Shahabad. As a former Collector of the district, having many associations with its people, my personal sympathies are by no means opposed to such a course; but I must own that it appears to me unjust and the reasons urged in its support unsound. These reasons, as summarised in paragraph 276 of the report, headed "Necessity of some reduction," and opening with the passage quoted above, are (1) the desire of the Commissioners that the changes to be introduced should be accepted by the people as an adequate outcome of the Commission; (2) that canal irrigation is unpopular; (3) that it is alleged to be unprofitable; (4) that it is said to be injurious to health. On the first of these considerations comment has been made above, and I will proceed to deal with the other allegations, in so far as they can be considered to be grounds for giving the water at less than its value.

"With regard to the unpopularity of irrigation, if the expression is to be taken as synonymous with a failure in the effective demand for water, it is obvious that, under a system of free sale, this consideration must be decisive If ryots do not consider that it pays them to give Re. 1-4 an acre for canal water, and to suffer such inconvenience as dealings with the Department entail, they will not send in written applications for leases, and the rates must be lowered. In that case reduction is a commercial necessity as well as an act of justice. And here I may remark that if, as sanguinely suggested in paragraph 292 of the report, a reduction in the rates is considered to be desirable in the ultimate interest of the revenue, as facilitating retrenchment and the extension of irrigation, there is no objection to the proposal, or rather it should be supported from a financial point of view. That is a technical question, as to which I can only remark that, considering the favourable character of recent seasons in respect to rain, there seems to be no falling off in the demand for water at existing rates, and no supply of water available for the extension of operations at the most important season of the year. But the unpopularity referred to by the Committee is of a different kind. It is consistent with a brisk demand for water at current rates and under the existing system. It finds its expression in attacks upon the canal administration, made by those who would, nevertheless, resent the cutting off of their water as the greatest possible calamity, These attacks may be most just, or they may be altogether unfair, but as affecting rates I submit that they are irrelevant. If individuals are to blame, they may be punished; if the system is in fault, it can be altered where found defective: but the principle that fair rates should be levied in the interest of the tax-payer must, nevertheless, be maintained. These rates were not fixed with a view to attracting local popularity, and cannot properly be altered with that object. If they were reduced on this ground, we would soon hear of the unpopularity of irrigation rates elsewhere.

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"With regard to the assertion that irrigation at the present rates is unprofitable to the cultivator, I fail to reconcile it with the fact that he applies for the water. He cannot do so for his pleasure only, and the inference is that he does so for his profit. That he depreciates the article he buys is no matter of surprise: most purchasers act in this manner where by so doing they can hope to influence prices. I presume the members of the Committee did not expect to hear the purchasers of water state how it had converted barren sand into valuable estates with large profits to the owners, or to infer that the rates they paid should, therefore, be enhanced.

"I may say that when I was Collector of Shahabad—an office which I held during the five years ending with 1884-85—no one appeared to doubt that irrigation had, on the whole, been profitable to the district. The system was then extending; indeed, the area under irrigation doubled during the period. And coincident with its extension was observable a degree of at least comparative prosperity clearly distinguishing the inhabitants of north Shahabad from the poverty-stricken population of the surroundnig districts. Complaints of proper assessment and of the occasional failure of the water-supply were indeed rife, but the advantages of the system as a whole were at the same time acknowledged."

99. It appears that in the light of the facts brought forward by Mr. Luson's enquiry, the information given by the Civil officers consulted, and the fact that the demand for water in the rice season is quite equal to, if not in advance of, the supply, not only is no reduction called for, but the rate might without injustice to the cultivator be raised.

Mr. L. Mylne states that—

Volume II, page 199.

"Any raising of the present rates would very probably tend to a combination against canal water."

And taking all the circumstances connected with the appointment of the Committee and the alteration in system now proposed into account, it will probably be better, for the present at least, in the interests of both Government and the cultivator, to retain the present rate, regarding which Mr. Mylne makes the following observation :—

"I am of opinion Re. 1-4 per bigah for all crops under a five-year lease during all but the hot months a fairly moderate charge."

100. This favourable rate should, however, apply in the case of good registered channels only and in situations where suitable blocks involving little or no waste of water can be obtained. It is proposed, with the view of inspiring confidence and avoiding interference with the cultivators more frequently than is absolutely necessary, that the lease under such circumstances shall be for seven instead of for five years. Where the blocks are less suitable, and the channels, though not necessarily involving waste, are less substantial, it is proposed to reduce the term of lease to three years and to raise the rate to Re. 1-9 per *bigah*. A distinct advantage would thus be given to the proprietors of estates whose arrangements in the matter of canal irrigation were such as not to cause loss to Government. In annual leases the rate would be Re. 1-14 per *bigah* as at present, but even in their case a suitable block would be insisted on. In no case would irrigation beyond the limits of the block be assessed. The precautions to be taken to prevent the misuse of canal water will be detailed subsequently.

101. For *rabi* irrigation the general rate would be five annas lower than at present, viz., Re. 1-4 per *bigah* for flow irrigation and 15 annas for lift. In the case of land on selected distributaries not open for *kharif* irrigation the

rate would be 15 annas and 10 annas per *bigahs* for flow and lift irrigation respectively. Water would not, in the case of leases at the lower rate, be given before the 25th October, unless the season was one of seasonable rainfall, when the Divisional Engineer would be authorised to open these distributaries by the 7th October, and no water would be given to *rabi* crops after the 25th of March It is never, as a matter of fact, wanted after that date except for sugarcane and hot-weather crops.

102. *Bhadoi* crops would, as at present, be charged Re. 1-9 per *bigah*, but it is intended to include *seerha* in this rate if further investigation shows that this class of rice can be separated from *kartika* and *aghani* without the risk of frequent disputes.

103. The rate for hot-weather irrigation between the 25th of March and the 25th June would be, as at present, Rs. 2-8 per *bigah*, but water would be allowed to be taken earlier for indigo and other crops requiring it, not before the 25th February, provided an equivalent number of days was cut off in May and June

104. Sugarcane it is proposed to treat in a special manner. At present half the complaints refer to this crop, which is peculiarly liable to damage from other causes than want of water. In 1887 the crop was generally destroyed by rain. Permits would be given for sugarcane irrigation at Rs. 5 per *bigah*, flow or lift, payable about the time the crop was reaped, with the undertaking that, in the event of the crop failing through any cause, a proportionate remission would be made. This rate would include irrigation in the hot weather for which no extra charge would be made. Otherwise canal water taken during the different seasons—*rabi*, hot weather, and *kharif*—would be charged at the rate fixed for the season, without reference to the failure or otherwise of the crop, except so far the rates for the current season were concerned, which would be remitted in the event of failure of supply only.

105. The charges would in all cases be in *bigahs* and decimals of *bigahs*, any smaller area than one-tenth of a *bigah* being charged as a tenth. The Committee's proposal is similar, except that one-eighth has been replaced by one-tenth. The Government will reap a small advantage by *cottahs* being replaced by decimals of a *bigah*; but it is proposed to expend Rs. 75,000 of public money on bridges, over village channels crossing public roads, which will quite neutralise any financial advantages the alteration might give to the canals.

Volume I, page 88, section 289.

106. There will be some minor changes. When the five-year lease rate was fixed, it was partly with a view of avoiding interference with the cultivators and partly with the object of inducing applications to permit sugarcane included in the block to be watered without extra charge. No alteration in this respect is proposed. It was, however, never intended that water should be given to these blocks after the time when it is ordinarily required for *rabi* crops without extra charge, and the season will, therefore, end on the 25th March, after which water is required for sugarcane and hot-weather crops only.

Mr. Mylne says :—

"I am against hot-weather irrigation, believing that during May and June the land should have respite from canal irrigation;"

Volume II, page 202.

whilst in the paragraph immediately above he observes :—

"I am decidedly of opinion—and in this I agree with Mr. Solano—that, if for nothing else than cane irrigation, the canal should supply water till, at any rate, the end of April in each year."

In the case of cane irrigation the transaction is, at any rate, purely commercial. If the cultivator does not find it to his advantage to pay the extra rate for canal water, he can sink wells, and it is desirable that he should be driven to consider it in this light as early as possible, and not trust to keeping the cane alive until the 31st March by canal water and afterwards in April, May, and June by rain, which is a pure lottery or surreptitious irrigation. This is what five-year lessees frequently do at present.

108. Adopting the proposals made in the preceding paragraphs, the water-rates for the future will stand as follows :—

Leases for a term of years.

For water supplied between the 25th of June of one year and the 25th of March of the next.	Flow or lift. Rate per bigha.	Flow or lift. Rate per acre.
	Rs. A. P.	Rs. A. P.
For leases for seven years—all crops	1 4 0	2 0 0
For leases for three years—all crops	1 9 0	2 8 0

Season leases.

Name of Crop.	Date of supply.	Flow or lift. Rate per bigha.	Flow or lift. Rate per acre.
		Rs. A. P.	Rs. A. P.
Rice and sugarcane for kharif season only	25th June to 25th Oct.	1 14 0	3 0 0
Bhadoi, sorha rice, or any other crops	Ditto to 15th Oct.	1 9 0	2 8 0

In the case of annual leases no extra charge will be made for a crop of *kesari*, linseed, or *gram* sown in rice-fields watered with canal water, for these a supply will be allowed to be taken until the 15th November.

In the case of both annual leases and leases for a term of years, water will be supplied for rice seed beds only from an earlier date in June, if the supply in the river admits of this being done.

The following will be the rates for *rabi* crops, including sugarcane leased for by the season, for water between the 25th October and 25th March :—

Season leases.

Time of Supply.	Locality.	Flow. Per bigha.	Flow. Per acre.	Lift. Per bigha.	Lift. Per acre.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
15th October to 25th March.	Water supplied from distributaries open for *kharif* irrigation.	1 4 0	2 0 0	0 15 0	1 8 0
25th October to 25th March.	Water supplied from distributaries or parts of distributaries from which *rabi* irrigation only is allowed.	0 15 0	1 8 0	0 10 0	1 0 0

N.B.—In both cases Executive Engineers may, in years when the demand for water for *kharif* crops admits of it, supply water for *rabi* on any date after the 7th of October.

The rate for sugarcane treated as an annual crop will be as follows :—

Annual leases.

Time of supply.	Flow or lift. Per bigha.	Flow or lift. Per acre.
	Rs. A. P.	Rs. A. P.
First of January one year until the crop is cut, which may be March in the following year ...	5 0 0	8 0 0

In the case of leases at this rate proportionate remission will be allowed if the crop suffers from causes independent of the water-supply, such as excessive rainfall or blight. Cultivators will thus have the option of taking water separately by seasons, in which case they will take all risks except failure of supply, or taking water by the year, in which case proportionate remission will be allowed if the crop suffers from any cause; water-rates at the proper rate being charged in lieu in the event of another crop being substituted. The total charge for separate waterings by seasons will be Rs. 1-14 + Rs. 1-4 + Rs. 2-8 (*vide* below), or Rs. 5-10 for the crop.

The hot-weather rate will be as follows:—

Season leases.

	Flow or lift.	
	Per bigha.	Per acre.
	Rs. A. P.	Rs. A. P.
For water supplied between the 25th March and the 25th June, or at the option of the applicant, between the 25th of February and the 25th of May, for all crops.	2 8 0	4 0 0

The rates mentioned to take effect from the 1st of April 1890, except in the case of seven and three year leases, which will commence from the 25th of June 1891; five-year leases under existing conditions to continue to be entered into for another year. The Superintending Engineer will have the power to admit existing five-year leases fulfilling the necessary conditions as part of a new seven-year lease, should the circumstances of the case appear to require it. It is desirable that the rates should be fixed for a term of years, and an undertaking might be given that no increase will be made in the above rates before the 25th June 1896, which proviso would fix the rate for long leases for the next seven to twelve years.

109. The water-rates will be due and payable on the dates mentioned below:—

Seven-year leases	One moiety	... 15th December.
Three-year leases	One moiety	... 1st March.

Season or annual leases.

Bhadoi and crops classed as *bhadoi*, including sugarcane waterings from the 25th June to the 25th October...	... 1st November.
Rice	... 15th December.
Rabi and crops classed as *rabi*, including sugarcane waterings from the 25th October to the 25th March	... 1st April.
Hot-weather rate ...	... 1st July.
Sugarcane, full annual rate. One moiety	... 15th December.
One moiety	... 15th February.

The Divisional Canal Officer will endeavour to forward as many of the demand statements as possible to the Collector fifteen days before the dates fixed for payment, but accuracy on the individual charges should be regarded as of more importance than a rigid adherence to dates.

110. Leases issued during the *kharif* season will be subject to the following general conditions:—

I. Preliminary applications for seven or three-year leases must be made by the 1st of April at the latest. The word preliminary is used, as the regular application cannot be prepared until the measurement is complete, so that the correct area may be entered opposite each cultivator's signature appended in the presence of a witness. Water will not be supplied until the application has been signed by all the occupiers of the land to be irrigated and a permit issued. If there is delay in obtaining the signatures and water is immediately required, it may be given on annual lease permits issued under the conditions noted below, which will be cancelled, provided the application for a seven or three-year lease is completed by the 30th of November, or with the special sanction of the Superintending Engineer the 1st March following.

II. Annual leases will be on the same conditions as regards the block being strictly defined, but the measurement will not necessarily be made before water is given, an area more or less being entered in the application in which the boundaries of the land to be irrigated will be specified. The application will state that the actual area measured within the boundaries specified will be charged.

III. The permit will consist in effect of a copy of the application with the permit endorsed on the back. In the permit the size and position of the outlet, head of water to be maintained, and approximate discharge will be mentioned. No alteration in the outlet will be allowed during the currency of the lease without the express consent of the lessees.

IV. The permit will state that water is to be supplied for the sole purpose of irrigating the lands mentioned therein. This, of course, includes the right to *nigar* or drain the lands at the proper season of the year. It will be expressly agreed in the application that water-rates will be chargeable whether or no rain falls, and water is required and supplied.

V. It will be noted in the application that no claim for remission will be entertained unless an application is filed 20 days before the crop is cut, on a form which will specifically state the names of the cultivators and the areas for which remission is claimed. A suitable form will be supplied at the cost of half an anna, but its use will not be compulsory, provided the required particulars are given.

VI. Leases, whether annual or for a term of years, will be granted for well-defined blocks only, and in the case of the latter the lease will be refused, unless the block includes all the land which would ordinarily or probably be irrigated. The block must therefore have well defined boundaries. The principle would be applied in the case of annual leases, but somewhat less strictly, as the lease need not be accepted in the following year if it is found that water is allowed to be wasted or to be used for irrigating unleased lands. On the other hand, land too high to be irrigated by flow will, at the discretion of the Canal Officer, be excluded from the lease, which will be for water at the level it can be delivered under existing circumstances, without its level being raised by cross bunds or other temporary appliances.

Mr. Mylne, volume II, page 191.

VII. Under no circumstances will unauthorized irrigation from water supplied to land under a *kharif* lease be *measured* or assessed. If water is found to be flowing beyond the boundaries of the lease, the outlet will be temporarily closed. In the case of leases for three or seven years, power will be reserved to the Superintending Engineer to cancel the lease with the concurrence of the Collector, if water is habitually wasted or used

for purposes of unauthorized irrigation, and also on the applications of all the signatories for good cause. Such leases will likewise be liable to be cancelled on the application of the Collector if, on the 1st of June of any year, water-rates are in arrear by more than half a year's demand. These conditions will be recited on the application form.

VIII. The only condition under which unauthorized irrigation in this season will be assessed, will be when a village channel has been cut and the perpetrators of the offence cannot be traced, in fact where a criminal offence has been committed. In such cases the papers will be submitted to the Collector before any measurement is made, and assessment only made on his order after such enquiry as he may consider to be necessary.

IX. The Divisional officer may, at the request of the Collector and with the sanction of the Superintending Engineer, refuse permits to the cultivators of villages where there have been constant difficulties in realising water-rates unless half the amount specified in the permit is paid in advance.

111. These conditions apparently fully meet those stated by Mr. Mylne to be necessary in the sentences quoted below :—

"No question of liability for rates would arise in the case of long leases. But because for various reasons considerable areas of the district are unlikely to come under long leases, safeguards must be provided to secure *equitable assessments* in respect of such areas, whenever canal water may be supplied. It is difficult to suggest any other plan than the following :—

"1. Sufficient water to be arranged for on written application for irrigation of the whole or major portion of well-defined blocks beyond which no charge for illicit irrigation should be made.

"2. Such application to render cultivators liable for rates on the crop, except on undoubted failure of supply, ascertained promptly by the aid of established gauges and from the appearance of crops. Liability to rates would remain whether or not rain fell during the irrigation of the block with canal water."

Volume II, page 191.

Unfortunately under the system mentioned, two evils will arise. Unanimity is required and a small minority may object, and in the words of Mr. Mylne—

"It has always been found that such minorities refuse to join any contract on application, believing they can enjoy the benefits of canal water without paying for them."

Volume II, page 19.

The other is that in most cases no punishment or penalty can be inflicted in the case of unauthorized irrigation, it being usually impossible to detect the actual offenders and to secure a conviction in a criminal court. A higher charge for the water, which is in many respects the most appropriate penalty, is deliberately abandoned, as on the whole this remedy leads to greater evils than the disease which it is intended to cure.

112. It might and frequently will happen that after the 1st of September there is a pressing demand for water, when, as frequently happens, the *hatiya* rains fail. The quantity of water available to meet this demand is at present and is likely to continue to be very limited. Crops supplied with water at this late period of the season, though greatly benefited, produce indifferent crops. There are always difficulties both as regards assessments and collections. Villages irrigated in October 1888, at the urgent request of the Collector, have failed to make any payment whatever, and in many, cases though canal water was used, no assessment was practicable. The whole available staff is required to distribute water to the leased areas, and they cannot be employed in examining blocks proposed to be leased. The only possible solution of the difficulty appears to be in such cases to sell the discharge of an outlet for a limited time after the leased areas have been supplied. In such cases a charge of four rupees for one cubic foot per second for twelve hours will be made, half being payable before the outlet is opened, and the other half secured by a bond without reference to the area to be watered. The charge proposed is rather less than one rupee per *bigha*, but there will be considerable wastage.

113. The charges to be made for water supplied between the end of the *kharif* season, say, the 25th October and the 25th March, require litt e comment.

A considerable reduction has been proposed to be made in the rates for *rabi* crops. It is necessary to impose a higher charge, where water required for *kharif* crops can be utilized, as water is certain to be taken, and it will interfere with the supply required for the rice crop at the most critical season. But the reduction in rate proposed to be made varies from 20 to 40 per cent. In the case of sugarcane the rate proposed is somewhat less than at present charged, and its realization will be dependent on the crop coming to maturity. If the cultivator chooses to take water for part of the year only, he will be charged the rate appropriate to the season, and no claim for remission on grounds other than failure of supply listened to. *Serha* rice, which is harvested in September, has been included under the head *bhadoi*, and the rate for irrigating it consequently slightly reduced, whilst the time during which water can be given for the hot weather rate has been made variable to suit indigo and other crops requiring water in March.

114. The strict provisions proposed to be made regarding unauthorized irrigation in the *kharif* season, 25th June to the 25th October, will not apply to irrigation at other times of the year, when the canal officers will exercise their present powers, regarding which there have been no real complaints. This is in accordance with the Committee's recommendation quoted below :—

"But there is always ample water in the canals and distributaries during the *rabi* season. The canal water runs to waste into the Ganges: there are never any complaints of insufficiency of supply at this time. Nor are there any complaints of assessment of unauthorized irrigation in regard to *rabi* crops. The object of the fixed duty system is to put an end to these complaints, but where there are no complaints, there is no advantage to be gained by its introduction. The best and simplest arrangement for the *rabi* season will be, we think, to follow the practice which now prevails, and allow the holders of the land under lease to take just as much water as they please for their *rabi* crops. If they abuse their privilege, and the water is allowed to flow on the lands of others, those lands will become liable to assessment. But the experience of the past affords the strongest reason for assuming that the privilege is not likely to be abused."

Volume 1, page 67.

115. In the existing rules it is provided that in the case of land held on a *bhaoli* tenure the water-rate shall be recoverable from the cultivators and zemindar in the same proportion as the produce is divisible among them.

It has been held as a matter of law that the zemindar can only be made responsible where the application has been signed by him. There are great difficulties in obtaining the signatures of zemindars, who frequently reside out of the district, and there are often numerous shareholders. Latterly, in many cases the ryots have made themselves responsible for all the water-rates rather than not get water or wait an indefinite time until the zemindars are willing to sign. An alteration in the law on the lines recommended in paragraph 223 of the Committee's report is desirable, but in the meantime some legal rule for the practical guidance of canal officers is required.

Volume 1, page 70.

The matter is very fully dealt with in Mr. Luson's report from which the following extract is quoted :—

"The position of affairs will be more clearly illustrated by the subsequent history of the case which led to the statement of the law now in question. It referred to one of the Doomraon villages, and after it occurred the representatives of the Maharajah refused to

sign with the ryots any leases last *kharif* season on *bhaoli* lands, notwithstanding that, hitherto they had paid half the rates, and notwithstanding that as far as I could ascertain, every other landlord (except one) in the circle consented to share the rate. The consequence was that in a number of the Doomraon villages water for rice was not taken by the ryots, and with the failure of the *Hathiya* rains the crops died. It was the *rabi* sowing time when I commenced my enquiries: the sowing rains held off; still the representatives of the Raj were refusing to agree to half the charge of the water the ryots were asking for, till the Collector of the district, at my request, urged the case of the ryots upon the Dewan, and induced him to issue a tardy notice that the Raj would this season share half the cost of irrigation, so far as *rabi* only was concerned. In 15 *bhaoli* villages belonging to the Doomraon Raj, *kharif* was irrigated by canal water taken by the ryots last season on their own responsibility. In all they could, no doubt, afford to pay the extra tax of 15 annas, as they were informed that by law the malik could not be charged; but in several I heard that they meant to deduct the value from the rent at the *danabandi* time—a state of affairs likely to lead to unseemly disputes."

There can be no question that the only settlement of the question at present practicable involves possible injustice to the tenant, but it is better that he should be able to procure water at even an enhanced price than allow his crop to fail.

It is proposed that in future the cultivator shall invariably make himself responsible for the whole of the water-rates, and that the canal officer shall be authorised to issue a permit and supply water on his written application.

Provision will be made in the rules that on the written request of the zemindar any specified proportion of the water-rate will be recovered from him, but it will rest with the ryot and not the canal officer to procure this authority from the zemindar, or to take action under section 40 of the Bengal Tenancy Act if he is so advised.

SUPPLY AND REGULATION OF WATER.

116. This point must be viewed from three different stand-points. In the *rabi* season there is always an ample supply, and the tendency of cultivators has been towards over-irrigation. In the hot weather, April, May and June, no guarantee in regard to the supply of water can be given. In the rains or *kharif* season the demand for water at certain times is in excess of the supply, and it is necessary to exercise great care both in granting permits and in regard to the situation and suitability of the blocks to be irrigated.

The bulk of the irrigation is in the *kharif* season, and it is only in regard to the supply at that time that rules are required. The principles to be followed are thus stated by the Committee—

Selection of irrigable blocks to be let on lease.

"It is essential to the proposals we are making that the canal officer should be allowed to select his own area for irrigation. This area should be let on lease under conditions we shall presently explain. The canal officer would not grant a lease for a larger area than the outlet or outlets from the distributary could supply in each case, and he would refuse a lease if the area applied for were insufficient to take the full supply of water which would be furnished by the outlet. He would be guided in his judgment by the fixed duty of 80 acres per cubic foot of water. It is of course not intended that a lease should be arbitrarily reduced or enlarged so as to bring it within the exact area commanded by the outlet. A small margin on one side or the other would exist in all cases. It will be better to err on the side of liberality than of strictness. But the canal authorities must be allowed the power of refusing a lease at discretion."

Volume I, page 65.

During the last two years irrigation has been conducted in the main in the manner suggested. The outlets have been adjusted to discharge approximately the quantity of water required (arrangements having been made to procure pipes under six inches in diameter) and leases for blocks, involving a strong probability of unauthorised irrigation, or requiring a discharge which could not be efficiently arranged for have been declined.

117. Since the Committee's report was written valuable experience has been gained.

In 1888 there was practically no rain from the 7th September to the 29th November, and the rice crop depended on canal water only. Practical results, the fruits of this experience, will be followed in preference to any particular scale of duty, and in all cases special care will be taken that the lessees shall know exactly what outlets will be allowed, the essential particulars regarding which will be entered on the permit. The rules will provide that general instructions issued from time to time on this subject must be followed. The ordinary base will, taking the rice area included in the block only into account, be for a duty of 50 acres per cubic foot per second on the discharge from the outlet with a *tatti* of five days in 15; but this duty will be liable in places to be reduced to 40 acres per cubic foot per second, or increased to 65 acres per cubic foot per second, where it has been found by experience that this latter duty can be obtained. Where the supply required is in excess of the lowest duty mentioned, the lease will ordinarily be declined. It would be an obvious loss of power to use the canals as a means of growing rice in soil which is practically in the condition of a filter bed. Such soil is suitable for *rabi* crops only.

The division of leases into seven-year at a lower rate and three-year at a higher will also afford a means of differentiating leases in unfavourable situations. Seven-year leases will only be accepted where it is positively known from former experience that a sufficient supply of water is always available, and that the quantity required is not excessive.

118. The department will accept and ordinarily exercise full control over and responsibility for the supply of water through the outlets. It will, however, be provided in the rules that, with the consent of the lessees, the custody and control of any outlet may, by an order in writing by the divisional canal officer, be made over to the *lambardar*, provided the latter is willing to undertake the charge. The delegation will not impose on the latter any responsibility with regard to unauthorized irrigation to which he is not otherwise subject. The *lambardar* will take charge as a matter of convenience to both the lessees and the canal department, and if the latter are not satisfied with his conduct they will resume charge of the outlet themselves. It will always be part of his duty to close the outlet in accordance with orders received from proper authority.

VILLAGE CHANNELS.

119. The Committee recommend—

Volume I, page 93, recommendation XII.

"That the construction of water channels be undertaken by the Canal Department, and that a suitable charge of from two to four annas a bigha be added to the water-rate as channel rent."

With this recommendation Mr. Odling found himself unable to agree. Very many of the leases are at present supplied with efficient village channels—not less than 185 miles have been made by canal officers at the cost of zemindars, and in the construction of much more than that length they have given advice and assistance. It is difficult to say what upwards of 1,000 miles of village channels would cost to construct, more especially as land would have to be acquired for maintenance purposes, and its price in the immediate neighbourhood of the canals has through their agency been largely raised. It has been ascertained that the road crossings alone will cost Rs. 75,000, and altogether it is not likely that less than three lakhs of rupees would suffice. The maintenance charges would be Rs. 20,000 a year, whilst in private ownership it is doubtful whether one quarter of that sum is expended, the cultivators being willing to carry out the repairs to a large extent without payment. The real difficulties are the road crossings and the length of some of the village channels which are *de facto* minor distributaries. It is proposed (I) to construct all road crossings required at the cost of Government; (II) to allow no village channel exceeding one mile in length to be constructed in future, and (III) except in the Jugdispore Estate, to take over and

Volume I, page 97.

maintain at the public cost any village channel already constructed which is in reality a distributary, provided it is made over to Government without charge.

120. There is no objection to its being laid down by rule that channel rent shall not be less than two or more than four annas a bigha, and, in the case of seven or three-year leases to recovering at the written request of the zemindar the channel rent together with the water-rates. But in such cases it will be necessary for canal officers to be placed in a position to keep the channels in a proper state of repair. It is not desirable to impose the collection of channel rent on the Canal Department as a duty. In some cases Messrs. Burrows, Thomson and Mylne may be taken as an example; the landholders have deliberately refrained from asking for channel rent from their own tenants, and in others, where the land is *bhaoli*, it is doubtful whether any rent can equitably be charged. Mr. Luson is of the contrary opinion, remarking that—

"Certainly he should at least pay for the construction of village channels."

121. The majority of the Committee look with much favour, not fully shared by the departmental member of the Committee, on the proposal to sell water for the supply of *aharas*. Mr. Odling considers that it is a matter in which great caution is required. It is recognized by the Committee that there is a risk of further water-logging the country, and that a supply could only be given when water is available without prejudice to leased areas.

Volume 1, page 73.
Volume 1, page 96.

The price proposed, one rupee for a discharge equivalent to a supply of one cubic foot per second for 12 hours though low, may be tentatively accepted, provided water is supplied from November to March only. To the supply of water in the months when the river is in flood, and the water heavily charged with silt, there is not only the grave objection of water-logging, but there is the imminent danger of the canal being silted up if constantly run at full supply. At present there are 14 steam dredgers at work, and it is with difficulty that the canals are at times kept open. Every extra cubic foot per second of supply deposits in the canal its quota of silt which must again be lifted out by steam power. It is therefore undesirable to fill *aharas* with canal water in this season at all, and, if allowed, a double charge sufficient to pay for the extra expense necessarily incurred should be levied. It is, however, in March, when the permission to take water for *aharas* will probably be most valued. The supply in the river in April, May and June is scanty, and generally there is no surplus water available for sale then.

Assessments and Collections.

122. The arrangements in these respects will remain much as at present, with the important exception that in the *kharif* season the areas included in the application will generally be measured at an earlier date than at present, and without reference to the patrols' *shudkar* or register of irrigation, which will be retained in a modified form to record the discharge through outlets. There will practically in this season at least be no unauthorized irrigation.

The Committee's recommendation has been followed except with regard to the increased number of Sub-Deputy Collectors it was proposed to employ partly for the purpose of disposing of complaints, and partly to admit of the localisation of the offices with the view of facilitating the collections.

Volume 1, page 78, section 250.

So far from it being likely that an increased revenue will be derived from the canals, it is nearly certain that the reverse will be the case. Though the area watered by the canals is steadily increasing, the assessments are decreasing owing to the extension of five-year leases. It is hoped that the work of the collection department will become lighter as these leases, which imply regular annual payments, extend.

The proposals of the Committee by no means satisfy the Special Deputy Collector, who is in favour of the creation of the office of Deputy Revenue Superintendent and the employment of four Special Deputy Collectors, whose functions would practically be those discharged by the two Sub-Deputy Collectors at present employed. Four new sets of buildings for their residences and offices are asked for, and there would be extra office establishment in addition. The addition to the work now carried out by the collecting department proposed was the disposal of complaints and the preparation of alteration statements.

Note dated the 25th May 1889, paragraphs 29-32.

123. It has been shown in paragraph 78 of this note that nearly half the objections to assessment raised were at once admitted by the canal officer to be correct and the necessary orders passed A reference from another office would have led to the same result, but with a very appreciable delay and extra trouble and work resulting in increased expense to Government in both departments. It was also pointed out that on general grounds it was only fair that the canal officer should be given the opportunity of correcting what was alleged to be an erroneous charge. It is admitted that cultivators or others—

"Should be able to present any complaints or objections they may have to make as to the effect of *orders* passed by the Engineers before an independent tribunal."

Volume I, page 79, section 253.

The word *orders*, which has been italicised, is the key-note to the case. All that is asked is that the Engineer should be given an opportunity of passing an order.

The actual alterations in the position of the collecting department proposed are—(I) that orders regarding assessments passed by sub-divisional canal officers shall be appealable direct to the Collector or to an officer vested in this respect with the powers of a Collector, the intermediate appeal to the divisional canal officer being abolished; he will, however, continue to exercise revisional powers; (II) that the Deputy Collector shall be vested with power to sanction alterations in the demand not affecting the amount due, in certain cases remissions, and to finally deal with certain classes of irrecoverable items. It is believed that this extension of the functions of the collecting department, which will materially lessen the number of complaints, can be carried out with the establishment as it at present stands, or at least without any material addition thereto.

124. I am altogether opposed to the creation of any special class of Canal Deputy or Sub-Deputy Collector, or to any increase in their numbers, which I do not think is called for, and as regards the former objection I find that I am supported by the Board of Revenue. The circle officers at Daudnugger and Bikrum fill the same position as that occupied by the Sub-Deputy Collectors in Shahabad, but their charges are materially less important and no immediate alteration is called for. The expediency of placing the collections in Patna and Gya under the Special Deputy Collector, Shahabad, may be reserved for further consideration.

125. With the exception of a sanctioned office establishment, the Special Deputy Collector, Shahabad, is wholly dependent on the amount placed at his disposal under rule, for the payment of his mofussil establishment. With the sanction of the Collector he appoints circle officers, *tehsildars*, &c, on pay from Rs. 50 per month and downwards to an amount not exceeding 3½ per cent. on his collections for the year. On this subject the Committee observe—

"As a fact, what is realised as tehsildars' fees is, we believe, not paid away as commission, but is devoted to the payment of fixed salaries to tehsildars and even to circle officers. Such a procedure may easily give rise to misunderstanding. We are of opinion that no value commensurate with the expenditure incurred is likely to be obtained by the payment of fees either to tehsildars or putwaries. It is a better arrangement not to allow fees. The collections ought,

Volume I, page 81.

we think, to be made as in other departments by establishments on a fixed salary without commission. We have therefore omitted fees altogether as an item of expenditure in future arrangements."

The only real objection which can be taken to the principle laid down by the Committee that fixed salaries shall be paid is on the score of expense. The Deputy Collector makes the strongest objection to the limits proposed by the Committee, and so far is supported by the Collector.

The matter is one which will have to be considered in detail with special reference to Mr. Power's remark that power should be reserved to dismiss men at times of year when their services are not required. The so-called circle officers should certainly be appointed permanently and graded as zilladars. Six zilladars as proposed by Mr. Power would replace the present establishment of seven circle officers. For the remaining establishment a limit should be fixed within which the Collector should be authorized to entertain such establishment as might be required, but the collections are diminishing and not likely to again show any important recovery, so that it is indispensable that the total expenditure shall not exceed that at present incurred The grant of a local allowance to the Special Deputy Collector has been repeatedly recommended by me. It should, I think, be attached to the appointment, which is very important, rather than be granted to the officer filling it at any particular time.

Volume II, page 27.

Intermediary Agency and Lambardars' fees.

126. When irrigation was first commenced, an attempt was made to appoint *lambardars* who should both transact business on behalf of the cultivators with the Engineers and assist the Deputy Collector in collections One moiety of their fees, then 10 per cent. on the assessments, was payable by each department. The arrangement was not found to be satisfactory; the canal officers and the collecting department were not always in accord as to the merits of particular *lambardars*, and eventually the fees, reduced to 6¼ per cent., were divided, the collecting department taking 3⅛ per cent., the sum now at their disposal for the payment of circle officer, *tehsildars* and others whom it was found expedient to retain on monthly salaries, and leaving 3⅛ per cent. to canal officers for the payment of *lambardars* who ceased to have any connection with the collections, but continued to act on behalf of the cultivators in matters connected with the presentation of applications, the receipt of permits, and the distribution of water amongst the signatories to the lease.

The *lambardars'* fees amount to a considerable sum, and their abolition would result in an appreciable saving to the State. Real work is, however, demanded from them, and it is proposed to increase both their duties and their responsibilities. They are required (I) to attend all measurements; (II) to obtain signatures to applications and to certify to the correctness of the same; (III) to attend to the distribution of water amongst the persons entitled thereto; (IV) to be present at the investigation of complaints by any canal officer or subordinate, and to give any information required in connection with irrigation.

It is now proposed that in addition they shall (V) distribute (*parchas*) to every *rvot*, and (VI) report at the end of the *kharif* season personally to the canal officer as to the state of the crops in the lease; (VII) report to the Deputy Collector all mutations in holdings; (VIII) to assist the collecting department by pointing out the residences of the persons assessed and identifying them. The duties are responsible and involve a considerable amount of physical exertion. It is probable and desirable that in most cases a Committee or *punchayet* will be appointed, but this will not diminish the amount of work to be jointly performed. It is absolutely necessary, in the irrigation season especially, that the *lambardar* shall devote a considerable amount of his time to his duties. He must be ready to trudge with the canal officers for several hours at a time in all weathers.

It is idle to expect that these duties will be performed by any one without remuneration—they are not the class of duties constituting an honourable burden for which remuneration is not found to be necessary, certainly not in this country.

Volume I, page 84.

On this point Mr. Mylne entirely agrees with Mr. Odling, and his opinion is particularly valuable, as the firm themselves discharge the duties of *lambardars* for a large part of their estate, employing paid servants whose wages it is understood the allowance received in the way of fees is not sufficient to cover. The Collector is also of opinion that remuneration must be given, and refers to the prevalence of party spirit and factious opposition which, it is believed, has interfered with the successful working of the Chowkidaree Act.

Note dated 30th June 1888.

As the *lambardars* will in future be to a certain extent responsible to the Collector, it will be desirable that a portion of the fees levied shall be paid by him, but the duties to be performed in connection therewith will require to be strictly limited. In particular they will have no concern with certificate cases. The total fees may in future be limited to three per cent., of which two per cent. will be payable by the canal officer and one per cent. by the Collector, fractions of annas being omitted in payments.

Letter No. 8491 of the 31st August 1888.

127. The only practicable way of creating the intermediary agency so strongly insisted on by the Committee appears to be to extend the system under which leases are at present granted on the joint applications of a contractor and cultivators. The contractor might be a zemindar or an association of three or four cultivators. It is essential that he shall have a beneficial interest in land included in the lease extending for its full term. The control of the outlet might ordinarily be made over to the contractor in these cases, and he might, if a resident zemindar, be himself allowed to prepare the demand statements for hot weather irrigation, in which case only is there an extra charge. The remuneration at present granted, 10 per cent., should not, however, be increased, unless the contractor is prepared to take the risks of bad debts, in which case 12½ per cent. might be allowed. In leases of this kind the approval of the Collector to the contractors would be requisite. Long leases on the application of the cultivators will continue to be granted; but in their case the *lambardar's* fees will be 5 per cent. only (on condition, of course, that it is earned), one per cent. of which will be paid by the collecting department and the remainder by the canal officer.

Volume I, page 75.

128. It is proposed to abolish putwaries' fees, but it may be necessary to call on these men to attend measurements or to attest the signatures to a lease, in which case they must be paid for the work done. A fee varying from 4 annas to 2 rupees, in accordance with the time taken up, will be authorized.

Administrative Control by Superior Officers.

129. It is not possible to permit appeals as a matter of right to the Superintending Engineer. He has many other duties besides the management of the Sone Canals, in which his position is purely that of a controlling officer His duties are in no respect of an executive nature, and it is undesirable that he should be called on to give decisions in matters in which there is by law an appeal to the Collector. Mr. Inglis says:—

"I think it is worthy of consideration whether the Superintending Engineer should not be brought into more immediate contact with the revenue work of his subordinate officers."

Volume II, page 283.

It should certainly be expressly declared that the Superintending Engineer exercises full revisional powers, and that orders passed by any canal officer shall be modified in

accordance with his directions. He should be required to issue definite orders regarding the limits within which leases of various descriptions can be allowed, as the whole distribution of water from the canals must be arranged on one concerted system.

There are also matters which might usefully be referred to the Superintending Engineer by the Collector. It is indispensable (recommendation VIII of the Committee) that the selection of irrigable blocks to be let on lease shall rest with the canal officer. But it is not intended that this power shall be arbitrarily exercised. Leases cannot be granted in areas excluded by the Superintending Engineer; but outside these areas all persons complying with specified conditions have a moral if not a legal right to be supplied with water; in the case of an appeal to the Collector that officer should be entitled to call on the Superintending Engineer to give his written opinion as to whether the grounds of refusal were in his judgment sufficient. The same liberty should be given in the case of village channels, where the matter is usually decided on professional considerations.

130. Remissions on other than legal grounds are at present granted by Government on the application of the Superintending Engineer. In most cases it is of importance that if these remissions are granted at all they should be granted in time to prevent a demand actually being made. Whilst it is necessary that the orders of Government shall be obtained where public money of large amount is involved, the Superintending Engineer might be vested with powers to grant extraordinary remissions without previous reference to higher authority, provided (I) that the water-rates shall not be reduced below 10 annas per bigha, and (II) that the remissions on any one lease or for any single cause shall not exceed Rs. 500.

Summary.

131. The chief recommendations made are summarised below—

I.—Five-year leases to be abolished, but to be replaced by leases for seven or three years, the former being sanctioned only where channels in really good order exist, the owners of which have been registered, and really suitable blocks can be obtained; the rate for these leases to be Re. 1-4 per bigha, the present five-year lease rate. Where the channels, though not necessarily involving waste, are not altogether satisfactory, or the block is not so good as is desirable, the lease to be for three years only, and the charge to be raised to Re. 1-9 per bigha.

II.—The lease to be in detail specifying all conditions, more especially regarding the outlets which the canal officer is not to be allowed to alter during the currency of the lease. The duty to be fixed as far as practicable on the results of past experience, the area under rice when the lease is entered on being mainly considered. Leases for seven years to be ordinarily refused for lands not previously irrigated, regarding which therefore *data* for fixing the discharge required is not available.

III.—Canal officers to be responsible for the supply of water through outlets, but to be allowed to delegate the custody of the outlet to *lambardars*, who will be required to close the outlets when water to the full extent required has been supplied, or in accordance with orders given by proper authority.

IV.—The *tatil* to be limited to five days after ten days consecutive supply.

V.—The assessment of lands irrigated without authority in the *kharif* season shall be prohibited except with the previous sanction of the Collector, where a criminal offence has been committed and the offender cannot be discovered.

VI.—The rates for *rabi* irrigation to be reduced and those for sugarcane modified.

VII.—No water to be supplied for *kharif* irrigation on applications filed after the 1st of September except by volume, and in such cases half the amount payable to be recovered in cash before water is supplied. The discharge of an outlet for a specified number of hours will be sold, and not a specified quantity of water.

VIII.—The length of village channels counting to the boundary of the lease to be in future limited to one mile, crossings to be provided at the public expense, and existing village channels of more than one mile in length to be taken over and maintained in future by Government on certain conditions. The distances mentioned will be measured in a straight line.

IX.—In the case of assessments or remissions an appeal to lie direct from orders passed by the Sub-divisional Canal Officers to the Collector or to an officer exercising the powers of a Collector, who will be empowered to direct the Divisional Canal Officer to himself enquire and to report in the matter.

X.—The Superintending Engineer to be required to define the limits within which canal water is available for (*a*) *kharif* irrigation on three or seven-year leases; (*b*) *kharif* irrigation on annual leases; (*c*) *rabi* irrigation at low rates; and (*d*) hot weather irrigation. That it be expressly declared that Canal Officers shall exercise all powers vested in them in subordination to the Superintending Engineer, and that they shall modify any order passed by them in accordance with his directions. Subject to the revisional jurisdiction as noted above, no appeal to lie to the Superintending Engineer, but in any appeal to the Collector under section 91 regarding (*a*) village channels or (*b*) the refusal of a Canal Officer to grant a permit on the ground of anticipated waste of water owing to the unsuitability of the block proposed, the Collector to be authorised to call on the Superintending Engineer for his written opinion, which shall form part of the records of the case.

XI.—Water to be sold for the supply of *aharas* from November to March only.

XII.—Joint and several liability to be abolished.

XIII.—Copies of the Revenue Report to be sent yearly to selected landholders, who will be asked to favour Government with any suggestions for improving the administration of the canals, and, if it is considered necessary, a conference will be held with the Superintending Engineer to discuss any possible improvements.

XIV.—In certain cases the Superintending Engineer, with the concurrence of the Collector, to have power to cancel leases or prohibit permits being given to particular villages unless all arrears of water-rates are discharged, or where water is persistently and habitually wasted or utilized for irrigating lands beyond the boundary of the lease.

Recommendations involving a change in the law.

132. The following provisions appear to be equitable, but legislation is necessary to admit of their being carried out.

I.—It is certainly only right that in the case of *bhaoli* tenures the landlord should in one form or other be made to pay a share of the water-rates. The recommendation (section 223 of the Committee's report) meets the case.

Volume I, page 70.

II.—It should be made clear that water-rate is an encumbrance on the land of the same nature as rent, and any tenant should be allowed to create this encumbrance. At present this point appears to be doubtful, there being a presumption only (capable of being rebutted) in its favour.

Section 76(e) of the Act.

III.—Where water has been misappropriated, and the Magistrate is unable to detect the offender, the persons benefited should be assessed by the Collector without reference to whether the water was obtained by cutting a village channel or a canal or distributary. This is not recommended by the majority of the Committee; but, as a matter of fact, it is almost impossible to secure a conviction, as proof of the actual perpetrator of the offence is seldom forthcoming.

Volume I, page 92.

Volume I, page 100.

IV.—Provision should be made as recommended by the Committee. "That application of cultivators representing an area of 85 per cent of a block shall bind all the remaining cultivators of a block whether they assent or not."

V.—The *users* not *owners* of village channels should be registered. This course would avoid difficult legal question as to ownerships.

Dissent of Rai Jay Prokash Lall Bahadur, dated 4th April 1888.

133. The dissent* commences by assuming that it has been proved that *ahara* irrigation is generally more beneficial than irrigation from the canals, that former methods of irrigation have been actively interfered with by the Canal Department, that drainage has been obstructed and the public health deteriorated by the canals, that the increased area under cultivation is doubtful, that benefit from sugar cultivation has not been proved, and that the canals are no appreciable help in time of scarcity. No special grounds beyond general references to the Committee's report are given for the conclusions drawn, which have been dealt with *seriatim* in previous parts of the note, and will not be again referred to. The experience of 1888, if the Rai Bahadur had occasion to visit the irrigated parts of the district, can scarcely fail to have convinced him of the benefit which the crops received from the canals in that year, and the experiments of Mr. H. Luson, C.S., and Messrs. Burrows, Thomson and Higine, have at any rate set at rest any doubt that might be entertained as to the productive power of any kind of land well cultivated and sufficiently irrigated.

* Volume I, pages 102-116.

134. It is proposed by the Rai Bahadur, paragraph 46, that leases shall be granted under the control of the Agricultural Department; paragraph 83, that no attempt shall be made to give water to defined blocks, which is the key-note of Mr Cotton's proposals; paragraph 34, that no power shall be given to canal officers to restrict the supply; and paragraph 21, that no *tatis* shall be allowed. It is safe to say that under such conditions the value of the canals would approximate to the Rai Bahadur's opinion of them. It would not be possible, where there was the least pressure, to get water more than 20 miles from the head, and it would be impossible for canal officers, or indeed any one, to give limits within which it would be safe to grant leases.

135. The rates suggested by the Committee are paragraph 37 of the dissent and sections 283 and 285† of the Committee's report distasteful, and paragraph 43 of the dissent, five-year leases are stated to be unpopular. Objection is also, paragraph 35, taken to the system of occasional waterings, and annual leases at a higher rate suggested. In this latter particular it has been found possible to conform to the wishes expressed, provided application is made by the 1st of September. The area under five-year lease has not diminished, and the ryots are stated by Mr Luson to have shown, in 15 of the Dumraon villages, their opinion of the value of the water by, the tenure being *bhaoli*, agreeing to pay the landlord's share of the rates as well as their own.

† Volume I, page 87.

136. An endeavour has been made to remove all well-grounded causes of complaint, but the canal officers must conform to physical conditions; they have water for sale available at certain times only, and under certain restrictions which are not arbitrarily imposed, but necessary to admit of the supply through the canals not being interfered with by accumulations of silt.

It has not in practice been found that these conditions clash with the requirements of agriculture (paragraph 37 of the dissent), and canal water has in fact during the last two years been eagerly availed of, the dissatisfied cultivators being those to whom it was on sufficient grounds found necessary to refuse leases.

Pamphlet by Baboo Kandhji Sahai, B.A., B.L., on certain aspects of the Sone Irrigation question.

137. Baboo Kandhji Sahai, who, as Secretary to the Co-operating Committee referred to in section 4 of the report, gave valuable assistance in the enquiry, has written a pamphlet under the above title, of which I have received a copy, mainly with reference to the reports by Mr. Odling and Mr. Luson, published in the *Calcutta Gazette* for the 9th January and the 3rd of April 1889, referred to in paragraph 4 of this note.

138. The Committee are stated to have arrived at the following main conclusions:—

"(*a*). That the canals are on the whole beneficial to the country, now that they have rendered it impossible to revert to the old system of *ahar* irrigation.

"(*b*). That canal water is not beneficial to *rabi* or opium.

"(*c*). That the shudkar system is the root of all evil, and that it should make way for a better system in which the chances and opportunities of doing evil might be minimised to the lowest degree.

"(*d*). That the magisterial powers in the hands of Engineers had not worked well.

"(*e*). That the collecting staff by its previous inaction and recent over-activity (put) gunpowder to the hidden flames."

and brought the feeling of soreness and exasperation to a climax.

Statement (*a*) has been fully dealt with in the earlier paragraphs of this note. Statement (*b*) is probably, except as regards wheat, so far true that crops irrigated by well water give better results, much better in the case of opium watered from old wells. Statement (*c*).—It is proposed to abolish the *shudkar* system in the *kharif* season, where it has led to evils, and to in its place substitute the system recommended in page 35, under which—

"No water will be given, unless lease is executed beforehand, the tenants binding on the one hand to pay the water-rate, the Government binding itself on the other to supply the water timely."

As regards (*d*), the Committee's conclusions are not accurately stated. The Committee certainly on general principles recommend, section 169, the withdrawal of the magisterial powers, but they expressly state that they—

"notice the sparing manner in which these powers have been exercised, and we have no reason to doubt that, as a general rule, they have been exercised in the past with discretion."

Volume I, page 52.

The recommendation is in no way based on whether the powers had worked well or otherwise (e). The recovery of arrears was doubtless unpopular with the assessees, who had hoped to escape payment, but, as has been stated in the commencement of the note, the agitation was one of the results of the introduction of irrigation, without rules found by experience to be suited to the district.

It is stated that—

"Many other points have been found to which it is not necessary to refer to at present."

They are incidentally adverted to throughout the pamphlet, which it is right to say is obviously animated by a desire to improve the irrigation administration by suggestions offered in a spirit regarding which complaint cannot be made.

139. The main object of the pamphlet is, however, to show that the rates at present charged for water are unjustifiable. Paragraph 7 runs as follows :—

"Such is the summary of the recommendations of the Commission I shall begin with the last, for the lowering of rates, first, as being the most important, and without which, in the words of the Commission, no improvement will be accepted as an adequate outcome of the results of the Commission."

It is perhaps desirable that the arguments adduced in support of this contention shall be specially noticed; the other points have been fully commented on in previous pages of this note. Whilst the accuracy of the crop experiments which were carried out is not questioned, it is stated that the results are not such as would ordinarily be obtained—

"In ordinary course of business all the fields are not reaped at once, and generally a great amount is wasted in reaping, in threshing, in winnowing, before the grain is actually stored"

This loss is stated to reduce the yield to $\frac{4}{5}$ths of that estimated, and it is contended that Mr Luson's figures—

"should be reduced not only by what is called the co-efficient of shrinkage, but also by the co-efficient of wastage."

The objections raised are entirely met, as will be seen from the quotation below, in the experiments carried out by Messrs. Burrows, Thomson and Mylne, which gave an average outturn of 31 maunds 5 seers per bigah on grain weighed on the threshing floor at a distance from the field—

"The results obtained from the different sources are nearly identical. The figures of Messrs. Burrows, Thomson and Mylne are slightly lower than the rest, because a certain amount of wastage occurred from the method they adopted of drying the crop. They had it tied up in bundles and carried to head-quarters, so that some grain must have fallen out on the way. The wastage, however, would not be much greater than occurs usually when the cultivators carry the bundles from the fields. In my experiments there was absolutely no wastage, because as soon as it was cut the crop was sewn up in bags, which were afterwards opened only in my presence. Similarly in weighing wet crops upon the ground the canal officers would not make any waste."

In these experiments this particular source of error was certainly eliminated.

140. Further on in paragraph 9 it is suggested that it may be intended to infer that the average produce is 31 maunds an acre. Such is not the case; the above was the average of experiments on *good* crops; the average on the whole irrigated area for 1888 is $18\frac{7}{10}$ maunds per acre. The average of 1,227 experiments made by canal officers to date on average crops is $16\frac{3}{10}$ maunds, and it is contended that Mr. Luson's experiments go far to show that these were substantially accurate.

141. A number of calculations on the profits of cultivators, which afford no real information, are given, and it is then asked :—

"Is there any marked improvement in the export or import of the country? Is there any change in the condition of the people of canal tracts as distinct from non-irrigated tracts? These are questions which do admit of no equivocal answers. If we compare the export and the import of recent years with ten years back, we will find that increase in these items is not at all distinct from the general increase, which of course is due to the improvement of the yet undeveloped resources of the country.

"The export and import of a country have been truly regarded as the index of a country's material prosperity. If we would like to know whether a country has improved in its material wealth, we should examine whether the import or the export has increased. One of the chief articles of import in this country is European piece-goods. With the spread of English education, and a desire to copy the Western ways of living in matters of convenience and comfort, it is expected that the import of such goods would increase even if that country did not improve in wealth. There is yet another fact which always tends to increase the consumption of the articles of import. The population is an increasing quantity which is attended with an increase in the value of imported articles in proportion to the increase in the number of population. In this view of the case we would expect that the import of the district would show an increase in 1888 over that of 1874 in proportion to the two causes above referred to. Now I would compare the value of the European piece-goods imported in the district in the year 1874, when the canals had no existence, with that imported in the year 1888, when they were placed in a fair working order; and would prove that instead of showing an improvement in the material condition of the people, as one would expect, if the canals were so beneficial to the country as we are led to believe, it shows a deterioration. If the contention of the other side were correct, we should have found an increase in the value of the import more than what could be referred to the two causes above mentioned. In the year 1874 during the first four months the value of the European piece-goods imported from Howrah was £122,568 (Statistical Reporter, Shahabad, page 269), but in the interval, i.e., from 1874 to 1888, the population increased from 17 to 19 lakhs; hence the import should have increased in the proportion of 19 to 17, assuming every other circumstance to be the same—that is the value of the import which one would expect in 1888 is £140,441. If we now take into account the other cause of increase, which is an indeterminate quantity, the value of imported article would be more than the sum above given. But what do we actually find the value of European piece-goods imported in the district to be in the first four months of 1888? It is not more than Rs. 15,15,410, which is equivalent to £106,078 at the present exchange rate (see for the value of the import, *Calcutta Gazette* Supplement, pages 721, 990, 1230, 1536, of 1889). Thus the consumption of the European piece-goods now is not what is was in 1874."

142. The Statistical Department of this Government has furnished the subjoined statement which gives the particulars relied on by Baboo Kandhji Sahai, not for four months, but for 13 years :—

Statement showing the Imports into the Shahabad district from Calcutta of piece-goods, European, during the 13 *years from* 1876-77 *to* 1888-89.

Year.	Quantity.	Rate per maund.	Value.
	Mds.	Rs.	Rs.
1876-77 ...	25,904	80	20,72,340
1877-78 ...	31,198	80	24,95,838
1878-79 ...	37,565	80	30,05,200
1879-80 ...	39,125	75	29,34,375
1880-81 ...	46,493	75	34,86,944
1881-82 ...	46,101	75	34,57,590
1882-83 ...	43,345	75	32,50,850
1883-84 ...	46,537	72	33,50,664
1884-85 ...	52,034	72	37,46,448
1885-86 ...	55,162	63	34,75,206
1886-87 ...	70,003	63	44,10,189
1887-88 ...	56,136	63	35,36,568
1888-89 ...	66,924	63	42,16,186

The Statistical Department states that figures previous to 1876-77 are not available, but those given do not appear to bear out the contention that the import of piece-goods has not increased, and the assertion that—

"In the face of this fact the friends of the canals have no case, nor can they ever justify its* case right to exist on its own merits"

* *Sic* in original.

is not altogether in keeping with the facts. The statement that—

"Care has been taken always to allow the errors to be in favour of the canal"

appears, under the circumstances, to be of more than doubtful accuracy.

143. Another consideration is put forward, which is, that—

"In more favourable years, which are by God's grace more numerous than unfavourable, the canal water is either not at all required, or required as a luxury. It is only at long intervals that dry season recur."

Again—

"Therefore it is useless to lay much stress upon the failure of the *Hathea* water when it is known that the *Chitra* came opportunely to supply the place of the *Haetha*."

Out of 19 years in nine there was less than one inch of rainfall in the first twenty days of October, which covers the greater part of both the *Hatiya* and *Chitra*.

144. The arrangements during 1888 appear to have met with general approval, except from one point of view, regarding which the following remarks are made:—

"If a system works well or badly according as the person in charge of it is good or bad, the system is imperfect. But if the system does not change with change of hands, the system is a model of perfection. Viewed in this light, the present system stands condemned. It is almost admitted that in the year under review the canal authorities have worked better in all the departments than in previous years. The supply of water was satisfactory, the prayers of the cultivators were attended to, and generally speaking the arrangements were good. It may be asked how is it that it was not so successful in previous years. The recent agitation may be said to have produced this salutary effect. But when things can be managed better or worse according to the will of the officer, which may be voluntary, forced or interested, they must be placed on a better footing In fact the successful management of this year carries with itself condemnation of the system. The proposed scheme differs from the existing, in that it offers the least opportunity for the exercise of individual idiosyncracies."

Reference is made by the writer to the falling off in five-year leases in the Buxar Division, whilst those in the Arrah and Eastern Sone Divisions were mostly renewed. The leases in the Buxar Division have this year largely increased, and the report shows clearly that there were special difficulties in Bhojepore, due partly to the area of land held *bhaoli* and partly to the cultivators being to a large extent Rajpoots or Brahmins. But the experience of one year has been sufficient to overcome even their reluctance to pay water-rates.

General Remarks.

145. On one point I quite agree with both Rai Jai Prokash Lall Bahadur and Baboo Kandjhi Sahai, and that is as succinctly stated in the Superintending Engineer's Revenue Report for 1888-89:—

"It is fully recognised that lasting contentment can only result by securing irrigating cultivators full crops, and that anything short of this standard will whatever may be the measure of the benefits derived compared with the water-rates paid, lead to complaints which, though ill-founded, are to be avoided."

The system now proposed will, I believe, secure this end in the largest degree possible.

146. In the report the Committee acknowledge the services of various officials and gentlemen, foremost amongst whom is Mr. L. Mylne of the firm of Messrs. Burrows, Thomson and Mylne. To the gentlemen comprising this firm the thanks of Government are due, not only for services rendered in the course of this enquiry, which were important, but for a long course of assistance to the Irrigation Department, which has been more than once cordially and fully acknowledged both by Government and by the local Head of the Department, the Superintending Engineer. The suggestions they have made have always been deserving of the most attentive consideration as based on reliable data, and having in view the equitable treatment of both the cultivator and the canal officers.

The name of Baboo Kandhji Sahai is amongst those mentioned; his efforts to put the popular side of the question before Government and the Committee in a fair and becoming manner deserves recognition. The Committee specially acknowledge the assistance received from Mr. W. A. Inglis, Executive Engineer, and Baboo Saroda Pershad Chatterjee, Deputy Collector.

147. Mr. Luson's report on the subjects into which he was directed to enquire is very full and complete It would not have been possible to deal with these subjects with anything approaching to the same certainty in the absence of the very valuable information collected by him. Mr. Luson has thoroughly earned the commendation of Government.

148. Mr. Cotton, the President of the Committee, brings to notice the assistance rendered by the Maharajah of Doomraon and his Dewan Rai Jai Prokash Lal, Bahadur, who was one of the members. It would have been difficult to have obtained the facilities necessary for the meetings without the assistance of the Maharajah, who declined to receive even a reimbursement of the actual expenses incurred. Mr. Cotton also mentions the candour and moderation displayed by Mr. Odling, from whom I have received material assistance in preparing this note.

149. The report of the Committee is in point of clearness and desire to introduce improvements all that could be wished. Alterations in the system in force, all in the direction pointed out by Mr. Cotton, have led to a considerable departure from the recommendations made by the Committee of which he was President; but none the less does he deserve the acknowledgments of Government for the valuable services he has rendered in the enquiry.

C. W. I. Harrison, *Lieut.-Col.*, R.E.,

Chief Engineer, Bengal.

APPENDIX I TO NOTE, DATED THE 14TH OF JANUARY 1890, BY COLONEL C. W. I. HARRISON, R.E., CHIEF ENGINEER, BENGAL, ON THE REPORT OF THE COMMITTEE APPOINTED TO ENQUIRE INTO THE ADMINISTRATION OF THE SONE CANALS.

Note by C. W. ODLING, ESQ., *Superintending Engineer, Sone Circle, on Drainage Works carried out and still required in connection with the Sone Canals, dated the 14th January* 1890.

IN sections 46 to 65 of the Report of the Committee appointed to enquire into the administration of the Sone Canals, the complaints regarding obstruction to drainage occasioned by the canal are adverted to. It is stated that much has already been done, but that much remains to be taken up. The necessity for care and caution is admitted, but the paramount importance of the subject is urged as a reason for continuing to pay the utmost attention to it.

2. Since the Committee sat, the matter has continued to receive the fullest attention. There was an unusually heavy fall of rain in August 1888, and data have been obtained which has admitted of a large number of projects being sanctioned after full and thorough investigations based on reliable observations.

A list of drainage works sanctioned from 1884-85 to 1886-87 is given at pages 124-125 of Vol. I of the Committee's Report. Works estimated to cost Rs. 1,61,861 have since been sanctioned, and a complete list of these, as well as of those shown in the report, is appended to this note. Material progress, it can scarcely be denied, has been made.

3. The statement following gives particulars regarding the heavy fall of rain mentioned in the preceding paragraph.

Statement of rainfall for the period 26th to 29th August 1888.

STATIONS.	MONTH AND DATE.				
	26th August 1888.	27th August 1888.	28th August 1888.	29th August 1888.	Total.
Eastern Sone Division.	Inches.	Inches.	Inches.	Inches.	Inches.
Bankipore	2·50	2·90	0·25	0·00	5·65
Bikram	2·20	6·25	0·50	0·00	8·95
Daudnagar	1·70	5·85	1·75	0·00	9·30
Average ...	2·13	5·00	0·83	0·00	7·96
Buxar Division.					
Buxar	0·00	5·60	4·00	0·25	9·85
Sikroul	2·30	7·05	1·20	0·40	10·95
Jumrore	0·00	4·15	2·41	0·20	6·76
Basawan	0·00	4·07	1·27	1·11	6·45
Average ...	0·57	5·22	2·22	0·49	8·50
Arrah Division.					
Arrah	0·04	7·70	2·27	0·00	10·01
Ageaon	2·75	8·30	0·50	0·00	11·55
Nasrigunj	1·25	5·01	1·85	0·00	8·11
Ramnagar	0·58	6·90	2·90	0·60	10·98
Koath	0·00	9·00	0·60	0·00	9·60
Average ...	0·93	7·38	1·62	0·12	10·05
Sone Circle average of 12 stations ...	1·11	6·07	1·62	0·21	9·01

The average fall at all stations on the 27th of August exceeded six inches, followed by upwards of one inch and a half on the following day, so that the opportunities for observation were very favourable, and they were taken advantage of.

4. In the following statements all cases where drainage was found to be obstructed are mentioned, the action taken to remedy it being also noted :—

Eastern Sone Division.

Locality.	Nature of obstruction.	Size of cut or breach.	Action taken.
Patna Canal, 9½ mile ...	Water impounded against canal bank.	Nil ...	The existing drainage cut has been extended.
Ditto, 14th mile ...	Ditto ...	Nil ..	Drainage channel provided in sanctioned estimate for extending Weir II, Patna Canal.
Ditto, 16½ „ ...	Ditto ...	6′ wide ...	Culvert built.
Ditto, 28th „ ...	Ditto ...	Nil ...	Pipes 12″ in diameter fixed.
Ditto, 11th „ ...	Ditto ...	Nil ..	Two pipes fixed, 50 bigahs only affected.
Mali Distributary, 7th mile ...	Ditto ...	Nil ...	Estimate for works required nearly completed.
Khojassa Distributary, 22nd mile.	Ditto ...	Nil ...	Estimate for syphon under preparation. Drainage area ⅛ square mile.
Khojassa Distributary, 24th mile.	Ditto ..	6′ wide ...	Estimate for syphon under preparation. Drainage area ¼ square mile.
Emamgunj Distributary, 2nd mile.	Ditto, but to a very limited extent	Nil ...	Inlet estimate being prepared.
Emamgunj Distributary, 5th mile.	Ditto ...	Nil ...	Two pipes fixed. Drainage area 1 square mile.
Emamgunj Distributary, 20th mile.	Drainage water impounded.	Nil .	Estimate for syphon sanctioned.
Unna Distributary ...	Ditto ...	Nil ...	Two pipes fixed. A syphon will be provided
Shamshernugger escape ...	Ditto ...	Nil ..	Two culverts sanctioned.

Arrah Division.

Locality.	Nature of obstruction.	Size of cut or breach.	Action taken.
Arrah Canal, 24th to 25th mile	Drainage water impounded.	Nil ...	Existing drainage cut cleared and outfall improved.
Rajpore Distributary, 2nd „	Ditto ...	2′	A small drainage cut made.
Rajpore Distributary, 7th „	Ditto ...	Nil ..	Ditto ditto.
Mongrowlia Distributary ...	Ditto ...	Nil ...	Under consideration.
Mouna Distributary ..	Ditto ...	4′	Temporary inlet provided and small drainage cut.
Doomraon Canal, 7th mile ...	Ditto ...	17′	Two syphons have been constructed and an inlet and drainage cut are in progress.
Doomraon Canal, 9th „ ...	Ditto ...	17′	
Doomraon Canal, 17th „ ...	Ditto ...	12′	Estimate under preparation.
Sukunea Distributary ...	Ditto ...	20′	Apparently an accident, not the result of obstructed drainage.
Arrah Canal, parallel channel, 35th mile.	Ditto ...	9′	The Chouri drainage cut under construction provides for the drainage of this part of the country.
Panmaree Distributary, 5th mile.	Ditto ...	10′	
Panmaree Distributary, 6th mile.	Ditto ...	32′	
Panmaree Escape, 7th mile ...	Ditto ...	15′	Plans for remodelling this work are under preparation.
Dillia Distributary, 1st mile ...	Ditto ...	5′	Drainage culvert built.
Dillia Distributary, 4th „ ..	Ditto ...	8′	Apparently an accident; drainage not obstructed.
Jytpore Distributary, 1st mile	Ditto ...	6′	Estimate for drainage cut being prepared.
Jytpore Distributary, 5th „	Ditto ...	13′	Caused by village channels belonging to private owners; under consideration.
Arrah Canal, parallel channel, 43rd mile.	Ditto ...	5′	The breaches were cuts made by villagers. Obstruction doubtful.
Arrah Canal, parallel channel, 45th mile.	Ditto ...	6′	
Arrah Canal, parallel channel, 46th mile.	Ditto ...	18′	Inlet built.
Asni Distributary, 1st mile ...	Ditto ...	10′	Under consideration.
Koelwar Distributary, 14th mile	Ditto ...	Nil ...	Syphons being constructed.
Ekwari Distributary	Ditto ...	Nil ...	

Locality.	Nature of obstruction.	Size of cut or breach.	Action taken.
Behcea Branch Canal, 12th mile and parallel channel.	Flood water from Sydha syphon impounded.	25′	Under consideration. A proper outfall from the Sydha syphon is required, but there are many difficulties, as the natural drainage is intersected by *aharas*; an inlet into the canal for from 100 to 150 cubic feet per second is admissible.
Behcea Branch Canal, 13th mile	Flood water impounded.	12′	
Kuteya Distributary, 1st mile	Breached from canal.	25′	Caused by escape of water from canal.
Kuteya Distributary, 3rd mile	Water impounded against bank.	20′	Under consideration; outfall for discharge through syphons under Gudhani Distributary required. The necessary survey has been made and levels taken.
Kuteya Distributary, 4th mile	Ditto ...	10′	
Kuteya Distributary, 6th mile	Ditto ...	10′	
Gudhani Distributary, 2nd mile	Ditto ...	6′	Existing syphons apparently sufficient, but outfalls, as mentioned above required.
Gudhani Distributary, 3rd mile	Ditto ...	10′	
Gudhani Distributary, 4th mile	Ditto ...	15′	
Gudhani Distributary, 5th mile	Ditto ...	6′	
Naranpore Distributary, 4th mile	Ditto ...	5′	Not yet taken up.
Naranpore Distributary, 3rd mile	Ditto ...	10′	
Gyanpore Distributary, 3rd mile	Ditto ...	5′	Syphons under construction.
Gyanpore Distributary, 4th mile	Ditto ...	6′	
Kuteya Factory Distributary, 1st mile.	Ditto ...	19′	Ditto ditto.
Kuteya Factory Distributary, 2nd mile.	Ditto ...	14′	
Bachire Drainage Cut, 4th mile	Ditto ...	25′	Inlets will be arranged for; possibly cuts on the bank will suffice.
Bachire Drainage Cut, 5th mile	Ditto ...	25′	

Bwxar Division.

Locality.	Nature of obstruction.	Size of cut or breach.	Action taken.
Bhojepore Distributary, 3rd mile.	Drainage water impounded.	15′	A drainage cut of some magnitude required. Project approved by Chief Engineer; detailed estimate under preparation.
Saiyonhee Distributary, 4th mile.	Ditto ...	6′	Drainage water for the present passed down side cuttings. Under consideration.
Gurrah Distributary, 2nd mile	Ditto ...	10′	Small syphon required; estimate under preparation.
Salya Distributary, 3rd mile ...	Ditto ...	6′	Area affected small; all waste land.
Chousa Canal, 11th to 17th mile	Ditto .	Nil ...	Drainage cut sanctioned; work commenced.
Kochus Distributary, 1st mile	Ditto ...	Nil ...	Existing drainage cut will be improved. Funds available on sanctioned estimate.
Kochus Distributary, 8th mile	Doubtful ...	19′	It is stated that drainage is not impounded, but that breaches are due to nature of soil. Under enquiry.
Kochus Distributary, 9th mile	Ditto ...	15′	
Kochus Distributary, 11th mile	Ditto ...	15′	
Kurbasi Distributary, 1st mile	Drainage water impounded.	4′	Syphon under construction.
Khurghun Distributary, 1st mile.	Ditto ...	Not given	Under investigation.
Khurghun Distributary, 4th mile.	Ditto ...	Ditto ...	Extra opening in syphon being provided.

5. It will be noticed that in the majority of the cases mentioned, steps have actually been taken by which whatever obstruction existed has been remedied. It is only in years when there is an exceptionally heavy fall of rain in a limited time that minor obstructions become apparent, and any delay in carrying out the necessary work is due to this cause. The major works, such as the Chousa catch drain, estimated cost Rs. 57,448, the Doomraon drainage cut, estimated cost Rs. 18,201, and the Chowri drainage, estimated cost Rs. 22,412, have been the subject of prolonged investigations, and the exact plans adopted have been only settled after several discussions with the Chief Engineer, and the most careful consideration of all the interests involved.

6. The large works still required are those in connection with the Kuntiya Distributary, miles 1 to 5, the Burhowlie and Tar Distributaries, the Doomraon Canal, 18th mile, and the Bhojepore Distributary, 3rd mile. The main features of the plans for the latter work have been approved of by the Chief Engineer, and surveys and investigations regarding the remaining three are in progress.

C. W. Odling,

Superintending Engineer, Sone Circle.

List of Drainage and Protective Works sanctioned since 1884-85.

EASTERN MAIN CANAL SERIES.

PARTICULARS.	Authority.	Amount of estimate.	Total.	REMARKS.
1884-85.		Rs.	Rs.	
Estimate for a syphon under the head Khojasa distributary at 26th mile, 3,760 feet.	Superintending Engineer's No. 860, dated 24th January 1885.	344		
Estimate for two lines of Ranceganj pipes under the Khojasa distributary at 25th mile, 4,743 feet.	Ditto ditto .	189		
			533	
1885-86.				
Estimate for an aqueduct overfall on drainage cut at the 43rd mile of the Patna canal	Superintending Engineer's No. 2697, dated 3rd July 1885.	87		
Estimate for Belsar drainage cut	Superintending Engineer's No. 450, dated 13th February 1886.	715		
Estimate for a syphon to pass water from the Poonpoon river under the Futtehpore distributary.	Superintending Engineer's No. 1020, dated 25th March 1886.	395		
			1,197	
1888-89.				
Estimate for an escape from Rewa distributary, Patna canal.	Bengal Government No. 872—I., dated 18th May 1888.	5,362		Chargeable to distributaries.
Estimate for a drainage inlet into the Patna canal at 16¼ miles, on the left bank.	Superintending Engineer's No. 130, dated 8th January 1889.	271		
			5,633	
1889-90.				
Estimate for raising right bank of the Manora distributary and protecting the village Kharati by an embankment.	Bengal Government No. 913—I , dated 20th June 1889.	7,882		Ditto ditto.
Estimate for a syphon at 20½ mile of the Khojasa distributary, Patna canal.	Superintending Engineer's No. 3407, dated 6th August 1889.	218		Ditto ditto.
Estimate for protecting embankments round certain villages between the Poonpoon river and Futtehpore distributary.	Bengal Government No. 93—I., dated 20th June 1889.	4,494		
Estimate for two masonry inlets for drainage at 0 mile, 500 feet, of Shamshernuggur escape, 24th mile, Patna canal.	Bengal Government No. 1487—I.A., dated 11th October 1889.	436		
Constructing a syphon for drainage at the 19½ mile of the Emamganj distributary.	Submitted to Chief Engineer, No. 4852, dated 25th November 1889.	1,602		Ditto ditto
			14,632	
			21,995	

C. W. ODLING,

Superintending Engineer, Sone Circle.

List of Drainage and Protective Works sanctioned since 1884-85.

WESTERN MAIN CANAL SERIES.

PARTICULARS.	Authority.	Amount of estimate.	Total.	REMARKS.
1884-85.		Rs.	Rs.	
Estimate for the preliminary operations in the Loharabad (Poero drainage cut), Bohsea branch canal.	Bengal Government No. 5877, dated 28th November 1884.	472		
Estimate for constructing an escape to the right parallel channel by the inlet into the Raghunathpore distributary (Doomraon branch canal).	Superintending Engineer's No. 4618, dated 1st September 1884.	413		
Estimate for constructing a culvert over drainage cut No. 5, opposite fall No. 9, Doomraon branch canal.	Superintending Engineer's No. 98, dated 8th January 1885.	301		
Estimate for constructing a culvert over the road opposite the Raghunathpore bungalow (Doomraon branch canal).	Superintending Engineer's No. 651, dated 11th February 1885.	240		
Estimate for constructing a drainage culvert under Panmaree distributary escape channel (Arrah canal).	Superintending Engineer's No. 1266, dated 19th March 1885.	849		
	Carried over ..	2,275		

Particulars.	Authority.	Amount of estimate.	Total	Remarks.
		Rs.	Rs.	
1884-85—*concluded.*	Brought forward ...	2,275		
Estimate for drainage cut from the Rajpore village to the Dunwar escape (Arrah canal)	Superintending Engineer's No. 1463, dated 31st March 1885.	313		
Estimate for an escape channel from the Meohadah distributary (Buxar Division).	Bengal Government No. 1585—I, dated 24th October 1884.	2,659		
Estimate for drainage for the Buxar Railway station (Buxar Division).	Superintending Engineer's No. 5621, dated 10th November 1884.	956		
Estimate for constructing an escape channel from Khoormabad distributary, Main Western Canal (Buxar Division).	Bengal Government No. 316—I., dated 24th February 1885.	3,126		
Estimate for extra land required to be taken up for terminal portion of the escape to the Buxar Jail water-supply channel (Buxar canal).	Bengal Government No. 469—I., dated 14th March 1885.	122		
Estimate for constructing an escape channel from Gurra Chowbey (Buxar canal).	Bengal Government No 522—I., dated 23rd March 1885.	7,484		
Estimate for an inlet at 12th mile, 20 chains, Doomraon branch canal.	Superintending Engineer's No. 4425, dated 21st August 1884.	334		Chargeable to distributaries.
1885-86.			17,269	
Estimate for an escape channel from the Panjraon distributary, Gurra Chowbey branch canal.	Bengal Government No. 13—T. I., dated 24th April 1885.	4,423		
Estimate for a drainage cut along the Koormooree distributary from 5th mile, 1,760 feet, to 5th mile, 1,760 feet (Behcea branch canal).	Superintending Engineer's No. 2188 dated 28th May 1885.	149		
Estimate for a syphon under the Behcea branch canal at 12th mile, 2,290 feet.	Superintending Engineer's No. 2182, dated 28th May 1885.	1,869		
Estimate for constructing an escape channel from the Bulthory distributary, Main Western Canal (Buxar Division).	Bengal Government No. 779—I., dated 25th June 1885.	6,103		
Estimate for constructing drainage culverts in the Jamrore sub-division, Chowsa canal (Buxar Division).	Superintending Engineer's No. 2748, dated 6th July 1885.	1,762		
Estimate for constructing an escape channel from the Karghar distributary, Gurra Chowbey branch canal.	Bengal Government No. 874—I., dated 21st July 1885.	6,019		
Estimate for a syphon at 3rd mile, 2,980 feet, of the Geeanpore sub-distributary, Behcea branch canal.	Superintending Engineer's No. 2904, dated 21st July 1886.	161		
Estimate for the proposed extension to the Bucharee drainage cut, Behcea branch canal.	Bengal Government No. 93—I., dated 14th January 1886.	57,673		
Estimate for a syphon under the Unwas distributary which takes off from the Chowsa branch canal of the Buxar canal series.	Superintending Engineer's No 237, dated 22nd January 1886.	1,045		
Constructing an escape channel from the Gurra sub-distributary (Buxar canal).	Bengal Government No. 162—I., dated 23rd January 1886.	3,339		Ditto ditto.
Escape Santh distributary (Buxar) ...	Bengal Government No. 459—I., dated 11th March 1886.	2,603		Ditto ditto.
Escape from Amarpur sub-distributary (Buxar canal).	Bengal Government No 466—I, dated 12th March 1886.	2,953		Ditto ditto.
1886-87.			88,099	
Estimate for a syphon under the Bessinee sub distributary at 2¼th mile, Arrah canal.	Superintending Engineer's No. 1140, dated 5th April 1886.	1,395		
Estimate for a culvert over drainage cut No. 4, Doomraon branch canal.	Superintending Engineer's No. 1179, dated 7th April 1886.	171		
Estimate for a syphon and drainage cut at 1st mile, 765 feet, and bridge at 1st mile, 5,080 feet, on Gudham sub-distributary, Behcea branch canal.	Bengal Government No. 65—T. I, dated 13th May 1886.	4,392		
Estimate for a drainage channel at Chandeo on the 15th mile, Buxar canal.	Superintending Engineer's No. 2—011, dated 10th June 1886.	1,398		
Amount expended on the drainage cut, Waina distributary.	Bengal Government No. 1456—I.A., dated 30th September 1886.	128		
Estimate for a bridge over the Jamorhi extension drainage cut at 3rd mile, 51 chains	Bengal Government No. 406—I., dated 10th March 1887.	556		
Syphon culvert under the Behcea branch canal, 2nd mile, 3,250 feet.	Bengal Government No. 216—I., dated 5th February 1887.	5,272		Ditto ditto.
1887-88.			13,312	
Estimate for constructing nine drainage culverts in the Jamrore sub-division (Chowsa).	Bengal Government No. 605—I., dated 10th April 1887.	2,160		Ditto ditto.
Estimate for a drainage culvert under the Koormooree distributary at 9th mile 2,295 feet.	Bengal Government No. 1145—T.I., dated 16th July 1887.	2,094		
	Carried over	4,254		

Particulars.	Authority.	Amount of estimate	Total.	Remarks.
		Rs.	Rs.	
1887-88—*concluded*	Brought forward	4,245		
Providing the Bhojepore distributary with an escape at 22¼ mile.	Bengal Government No. 1994 I., dated 16th December 1887.	2,075		Chargeable to distributaries.
Constructing a syphon culvert with outfall drain at 10¾ mile, Doomraon branch canal	Bengal Government No. 200 I., dated 10th February 1888.	3,342		Chargeable to reserve for general purposes.
			9,671	
1888-89.				
Estimate for drainage culvert under Panmari distributary.	Bengal Government No. 880—I., dated 18th May 1888.	663		Chargeable to distributaries.
Constructing a weir in the Behta sheet ..	Bengal Government No. 1031—I., dated 22nd June 1888.	2,127		
Ertimate for a drainage cut required at the 5 h mile of the Rajpore distributary (Arrah Division)	Bengal Government No. 1.03—I., dated 12th July 1888.	503		Ditto ditto.
Estimate for drainage culvert required to be constructed in connection with the Dilha distributary	Bengal Government No 120—I, dated 23rd January 1889.	541		Ditto ditto.
Estimate for constructing the Chowra drainage cut	Bengal Government No. 472—I., dated 20th March 1889.	22,412		
			26,268	
1889-90.				
Estimate for land required to be taken up for repairing banks of the Kunteya escape channel	Bengal Government No. 600—I., dated 22nd April 1889.	222		
Estimate for drainage works required in connection with the Chowsa canal distributaries.	Bengal Government No. 618—I.A., dated 23rd April 1889.	1,929		Ditto ditto
Estimate for drainage works required in connection with the Chowsa canal.	Ditto ditto ...	425		Chargeable to reserve for general purposes.
Constructing a syphon at 11th mile, 21 chains, Doomraon branch canal.	Bengal Government No. 647—I, dated 26th April 1889.	5,703		Chargeable to distributaries.
Constructing syphon at 4th mile, Kuthasi distributary, from the Chowsa branch canal.	Bengal Government No 748—I.A., dated 16th May 1889.	1,131		Ditto ditto.
Constructing a drainage cut in village Bihta in the Arrah canal.	Bengal Government No. 776—I.A., dated 21st May 1889	651		
Constructing an escape channel from the Rajpore distributary.	Bengal Government No. 932—I.A., dated 21st June 1889.	855		Ditto ditto.
Constructing an inlet and escape for the left parallel channel, Arrah canal, at 50th mile, 20 chains.	Bengal Government No. 1116—I.A., dated 20th July 1889.	700		Ditto ditto.
Constructing a syphon culvert for drainage under the Gee.npore distributary, 1st mile, 36 chains.	Bengal Government No. 1118—I.A., dated 20th July 1889.	671		Ditto ditto.
Constructing a syphon at 0 mile, 32 chains under the Kun eya Factory sub-distributary in the Arrah Division.	Bengal Government No. 1150—I.A., dated 23rd July 1889.	891		Ditto ditto.
Constructing an escape on the right bank of the Chowsa canal at 16th mile, 3,000 feet.	Bengal Government No. 1318—I.A., dated 21st August 1889.	1,851		Chargeable to reserve for general purposes.
Constructing an escape channel at the 8th mile, 5,122 feet, of the Kunteya distributary.	Bengal Government No. 1477—I., dated 28th September 1889.	9,705		Chargeable to distributaries.
Constructing two syphon culverts under the Ekwary distributary at 3rd mile, 38 chains, and 42nd mile, 21·8 chains.	Submitted to Chief Engineer, No. 3093, dated 4th November 1889.	1,550		Ditto ditto.
Constructing the Chowsa catch-drain ...	Submitted to Chief Engineer, No 4851, dated 24th November 1889.	57,448		Since sanctioned.
Constructing drainage cuts at the 7th and 8 miles, Doomraon branch canal.	Submitted to Chief Engineer, No. 4896, dated 27th November 1889.	18,201		Ditto ditto.
Constructing a bridge over the Kythee drainage cut at 1st mile, 12 chains.	Superintending Engineer's No. 5330, dated 17th December 1889.	702		Chargeable to drainage and protective works.
Constructing a bridge at 3½ mile of the Dunwar escape channel.	Bengal Government No. 41, dated 2nd January 1890.	3,372		Ditto ditto.
			1,05,657	
			2,60,276	

C. W. Odling,

Superintending Engineer, Sone Circle.

The 14th January 1890.

No 37Mne., dated Calcutta, the 10th February 1890.

THE following report of the 11th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners for making Improvements in the Port of Calcutta, is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

No. 963, dated Calcutta, the 6th-7th February 1890.

From—H. JOLL, ESQ., and W. CONNAN, ESQ.,
To—The Secretary to the Government of Bengal, Public Works Dept.

IN accordance with the order of the Government of Bengal, memorandum No. 1[illegible]0 (Marine) of the 27th ultimo, we have the honour to report that the 11th quarterly inspection of the Kidderpore Dock Works was made on the 5th instant

2. The usual tabular statement and the index plan showing the work done during the quarter ending 31st December 1889, and the total amount executed from the commencement, which have been prepared by the Superintending Engineer of the Dock Works, are already with Government.

3. The progress during the quarter is under-noted.

PERMANENT WORKS.

Sixty feet Lock.—The work is nearly completed, and only 6·8 per cent. of the masonry now remains to be done, 195,000 cubic feet of masonry having been built during the quarter.

Eighty-feet Entrance.—Completed nearly up to coping level. 72,792 cubic feet of masonry was built during the quarter, 10·7 per cent only remaining to be done.

Double Entrance to Dock No. 1.—The erection of the gates was commenced and 233,800 cubic feet masonry built during the quarter, only 13 per cent. remaining to be done.

Tidal Basin.—The graving dock entrance being ready, work was partially resumed during the quarter, and 12,000 cubic feet of masonry was built and 330,000 cubic feet excavation dug. About 22·5 per cent. of quay wall foundation and 18·7 per cent. of masonry remain to be done.

Graving Dock.—70,000 cubic feet of masonry and 85,000 cubic feet of earthwork were done during the quarter. 23·5 per cent. of the brickwork and 10·8 of foundation remain to be done.

Government Graving Dock.—Work on this dock was begun during the last quarter. 1,020,000 cubic feet of excavation were done during the quarter, and the timber trenching for the foundation is now in hand.

Dock No. 1.—363,385 cubic feet of the quay wall masonry and 3,528,992 cubic feet of excavation were done during the quarter. About 9·2 per cent. of brickwork and 24 3 of excavation remain to be done. During the quarter, 129 running feet of foundation was done, only 4·9 per cent. remaining to be done.

Boat Canal.—During the quarter, 774,093 cubic feet of excavation and 113,056 cubic feet of masonry were done, making in all about 70 per cent. of the total estimated amount. The erection of the main girders of the Diamond Harbour road bridge was nearly finished, and the rail arches for both this and the Tullygunge road bridge were completed. The erection of the gates of the lift lock is now in hand, and special measures are being taken for the excavation required in the Chetla Hât lock.

Subsidiary Works.—The hydraulic engine-house has been almost completed with the exception of the chimney shaft and the accumulator tower, and the engines and boilers have been erected in it. The foundations of the main pumping station are completed and ready for the erection of the machinery on its arrival from England.

Expenditure.—The total expenditure up to the end of the quarter under review is reported to be Rs. 1,62,15,553, of which Rs. 1,35,56,930 represents outlay on works and Rs. 26,58,623 outlay on account of land.

Sanitary.—A fever epidemic prevailed among the workpeople during the quarter which caused a considerable mortality and raised the death-rate to 48·61 per 1,000 per annum, against 12·56 in the previous quarter; the death-rate for the same quarter last year being 35·82. The average number of work-people employed during the quarter was 6,537, amongst whom there were 26·3 deaths.

GENERAL REMARKS.

We are of opinion that fair progress has been made with the works, and that, so far as we have been able to judge from a quarterly inspection, the quality of the work done is all that could be desired.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 8th February, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	Burdwan Divn.		
1	Burdwan Feb. 8, '90	Nil	Weather—cold. Outturn of *rabbi* and other winter crops rather unfavourable Potato fair. Prices of common rice :— Srs. Burdwan ... ... 17½ Culna ... . 16 Cutwa ... . 16½ Raneegunge ... ... 20 } per rupee.
2	Bankoora „ 8, '90	Nil	Weather—seasonable. Prospects of *rabbi* crops continue good. Coarse rice selling at 19 seers per rupee at Sudder and 20 seers at Bishenpore.
3	Birbhum „ 8, '90	Nil	Weather—seasonable. State and prospects of sugarcane and winter crops good. Rice selling at 16½ seers per rupee at Soory and 16 seers at Rampore Hâti
4	Midnapur „ 8, '90	Nil	Weather—seasonable. General prospects fair. Harvesting of rice nearly over in Contai. Indigo and *rabbi* doing well. Prices of rice :— Srs. Sudder ... ... 18 Contai ... ... 24 Tamluk .. .. 18 Ghatal ... ... 20 } per rupee.
5	Hooghly. „ 8, '90	Nil	Weather—cold. *Rabbi* crops thriving well. Prices of common rice :— Srs. Sudder and Serampore ... ... 12½ Jehanabad ... ... 17 } per rupee.
	Howrah „ 8, '90	Nil	Weather—cool. *Rabbi* crops doing well. Transplantation of *boro* crop going on. Prices of common rice :— Srs. Howrah ... ... 13 Uluberia ... ... 16 } per rupee.
	Central Districts.		
	Presidency Divn.		
6	24-Perghs. Feb. 8, '90	Nil	Weather—cool. *Aman* harvest completed. Threshing going on. *Rabbi* crops doing well. Ploughing going on in some parts. Common rice selling at 16 seers per rupee.
7	Nuddea „ 8, '90	Nil	Weather—seasonable. Prospects of crops now on the ground favourable. Harvesting of sugarcane and *arhar* still going on. Ploughing for *aus* rice has commenced.
8	Khoolna „ 8, '90	Nil	Weather—seasonable. Reaping of *aman* completed; outturn 13 annas, as reported before. State of the *boro* crop, the transplantation of which is nearly completed, is good, and of *rabbi* fair.
9	Jessore „ 8, '90	Nil	Weather—very cold. *Aman* harvesting nearly over; outturn 12 annas in Jhenidah. Spring crops doing fairly well. Price of new rice 14 to 16 seers per rupee.
10	Moorshedabad „ 8, '90	Nil	Weather—bright and cold. Prospects of *rabbi* continue good.
	Rajshahye Divn.		
11	Dinagepur „ 8, '90	Nil	Weather—warm during the day and cold at night. Nights still very foggy and damp. Prospects of crops continue good.
12	Rajshahye „ 8, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice nearly finished with good outturn. Prospects of *rabbi* crops also good.
13	Rungpur „ 8, '90	Nil	Weather—seasonable. Land is being prepared for *aus* and jute. Prospects of tobacco, wheat and other *rabbi* crops continue good. Prices stationary.
14	Bogra „ 8, '90	Nil	Weather—cold and pleasant. Foggy mornings. Reaping of *aman* finished. Other crops being reaped. Gram, *khesari*, *rai*, peas, and wheat promising Rice sells at 22 seers per rupee at head-quarters.
15	Pubna „ 8, '90	Nil	Weather—fine and cold. Outturn of *aman* in Serajgunge at least 14 annas, and in Sudder subdivision 12 annas. Sugarcane 8 annas. Mustard deficient. Other cold-weather crops satisfactory. Price of rice slightly lower.
16	Darjeeling „ 8, '90	Nil	Weather—very cold and bright. Crop prospects generally favourable.
17	Julpigoree „ 8, '90	Nil	Weather—seasonable. Cutting of *haimanti* paddy completed and 14 annas outturn obtained. Condition of tobacco good. Prices stationary.

No.	District and date of return.	Rainfall at under station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Feb. 8, '90	Nil	Weather—seasonable. Winter crops doing well. Mustard, pulses and sugarcane are being cut. Fodder is available No special change in the prices of food-grains. Common rice 13 to 16 seers per rupee.
19	Furreedpur „ 8, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops fair. Sugarcane cultivation progressing. *Boro* being sown in chur lands. Coarse rice selling at 14 seers per rupee at Sudder, 15 seers at Madaripore, and 17 seers at Goalundo.
20	Backergunge „ 8, '90	Nil	Weather—cool and fair. Harvesting of *amun* completed; outturn estimated at 16 annas. Common rice selling at 16 seers per rupee.
21	Mymensingh „ 8, '90	Nil	Weather—cold and bright Transplantation of *boro dhan* nearly completed. Mustard is being gathered. Prospects of crops good. Coarse rice 14 seers per rupee.
Chittagong Divn. 22	Chittagong „ 11, '90	Nil	Weather—seasonable. Prospects of chillies good.
23	Noakholly „ 8, '90	Nil	Weather—seasonable. *Rubbi* crops doing well. Price of rice stationary.
24	Tipperah „ 8, '90	Nil	Weather—bright and cool. *Boro dhan* is being transplanted. Land is being prepared for *aus*. Tobacco, onions, and chillies are thriving. Mustard is being gathered.
25	Chittagong Hill Tracts. „ 7, '90	Nil	Weather—very cold with dense fogs in the morning, and hot at noon, throughout the week Gathering of mustard continues. Tobacco, chillies and other winter crops progressing.
	Hill Tipperah Feb. 8, '90	Nil	Weather—cold. Tobacco and sugarcane being cut. Cotton gathered; outturn fair.
BEHAR.			
Patna Divn. 26	Patna „ 8, '90	Nil	Weather—cold. Mustard and *aghani rabar* are being harvested. Other spring crops doing well Prospects of poppy continue favourable. Prices of food-grains almost stationary.
27	Gya „ 8, '90	Nil	Weather—cold Harvesting of paddy in course of completion. *Rubbi* coming on well Poppy progressing
28	Shahabad „ 8, '90	Nil	Weather—bright and cold, but getting slightly warmer Prospects of wheat and barley good. Peas and mustard being cut Sugarcane being pressed. Poppy in flower and forward, and promises well if there be no rain. Prices stationary
29	Durbhunga „ 8, '90	Nil	Weather—cold and clear early in the week, slightly hotter at its close. Prospects of *rabi* continue favourable Mustard is being harvested. Recent rain has done much good to poppy crop. Prices of common rice range from 19 to 25½ seers per rupee.
30	Muzufferpur „ 8, '90	Nil	Weather—seasonable. Prospects of all crops continue very favourable.
31	Sarun „ 8, '90	Nil	Weather—clear and cold. Prospects of *rubbi* excellent. Harvesting of peas and mustard commenced, outturn favourable. Poppy looks well and continues to give a good prospect
32	Chumparun „ 8, '90	Nil	Weather—seasonable. Reaping of mustard nearly finished; estimated outturn 12 annas. *Rubbi* doing well. Poppy generally in flower; prospects excellent. Prices stationary
Bhagulpore Divn. 33	Monghyr „ 8, '90	Nil	Weather—seasonable. Days getting hot. Prospects of *rubbi* crops continue favourable, and an outturn of 14 annas on the whole expected. A shower of rain would still benefit the crops.
34	Bhagulpur „ 8, '90	Nil	Weather cold and dry. Crops on the whole doing well, but would be improved by rain. In Soopool, crops said to be suffering from want of rain.
35	Purneah „ 8, '90	Nil	Weather—seasonably cold. Tobacco and other cold-weather crops doing well, having been benefited by the late rain.
36	Maldah Feb. 8, '90	Nil	Weather—cold. *Kalai* and mustard still being gathered. Transplantation of *boro* going on. Prospects of other standing crops good. Common rice selling at an average of 18 seers per rupee.
37	Sonthal Perghs. „ 8, '90	Nil	Weather—seasonable. *Aghani* outturn in Godda 12 annas. *Rubbi* promises to yield 12 annas for the whole district. Prices falling.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Dtvn.	38	Cuttack Feb. 8, '90	Nil	Weather—misty in the morning. The subdivisional officer of Jajpore reports that the outturn of *guru sarad* should be 16 and not 17 annas, as stated before. Prospects continue good.
	39	Pooree ...	...	Report not received.
	40	Balasore „ 8, '90	Nil	Weather—warmer Such *rabbi* crops as there are, doing fairly well.
CHOTA NAGPORE				
South-West Frontier Agency.				
Chota Nagpore Dtvn.	41	Hazaribagh Feb. 8, '90	Nil	Weather—seasonable. Prospects generally good, except at Chatra and Chowparun, where a full crop is not expected. Rain would do good.
	42	Lohardugga „ 8, '90	Nil	Weather—seasonable and very cold. Prospects of *rabbi* at head-quarters good. Hoar-frost has caused much damage to this crop in Palamow, especially to *rahar* pulse. Mustard is being now reaped.
	43	Singbhoom „ 8, '90	Nil	Weather—seasonable. Prospects of crops favourable. Outturn of sugarcane 12 to 16 annas; *surguja* 10 to 16 annas; *mohua* 10 to 12 annas; other oil-seeds 10 to 16 annas. Gram doing well. Prices stationary.
	44	Manbhoom „ 8, '90	Nil	Weather—getting warmer. Sugarcane is being pressed; outturn full average in Sudder subdivision and about 12 annas in Govindpore. *Arhar, khesari*, and wheat ripening; probable outturn 14 annas. Rice selling at from 20 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 11th February, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ..	14 8	13 8	12 4	No sale.			12 12	Now 15 0	15 12	Now 16 14	16 5	18 0	...	...	...
2	Bankoora ...	14 8	14 8	12 4	14 0	14 0	14 8	17 8	17 0	17 8	21 0	21 0	21 0	...	...	...
3	Beerbhoom ...	15 8	15 8	11 0	...	...	...	13 8	12 0	13 0	16 8	15 0	15 12	...	...	...
4	Midnapore ...	13 0	13 0	13 5	...	...	...	12 8	12 8	15 0	17 0	16 8	20 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	13 0	12 0	13 0	...	...	...
	Howrah ...	...	...	...	...	...	...	9 8	9 8	12 0	14 0	14 0	14 8	...	...	...
	Central Districts.															
	Calcutta	13 12	13 6	12 9	13 0	16 9	15 11	9 2	8 11	9 10	13 14	13 8	14 14	20 3	19 4	17 8
6	24-Pergunnahs	15 0	14 8	12 8	16 0	16 0	14 0	9 0	9 0	8 0	16 8	16 8	16 0	...	...	...
7	Nuddea ..	15 0	15 0	13 14	17 12	17 12	22 14	10 10½	10 10½	12 5	12 14	13 4	17 1¼	...	...	...
8	Khoolna ...	...		...	...	...	...	13 0	14 0	14 4	16 0	16 0	16 0	...	...	...
9	Jessore ...	12 12	13 5	12 0	...	...	...	9 0	9 0	14 0	16 0	16 0	17 0	...	..	...
10	Moorshedabad	16 0	16 0	13 5	...	...	...	15 8	15 8	13 5	16 0	17 0	17 0	...	...	...
11	Dinagepore ..	16 0	17 4	12 0	19 0	16 0	12 0	14 0	15 8	14 6	19 0	19 0	17 1	...	...	...
12	Rajshahye ...	15 0 16 8	15 0	12 0	18 12	18 12	26 4	14 4	13 8	13 8	16 2	15 12	15 0	...	...	...
13	Rungpore ...	14 8	14 8	12 4	...	...	...	9 6	9 6	10 8	14 8	14 8	16 12	...	...	...
14	Bogra ...	Best sort. 13 5 Common. 16 8	13 5 16 8	7 14	...	...	...	12 0	12 0	12 0	18 12	19 8	18 12	...	...	...
15	Pubna ...	13 5	13 8	16 8	...	.	.	7 2	7 4	7 12	16 8	15 14	18 0	..	...	...
16	Darjeeling ..	10 0	10 0	10 0	10 0	10 0	10 0	5 8	5 0	5 0	10 0	12 0	13 0	...	...	...
17	Julpigoree ..	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	17 0	17 0	18 0	...	...	...
	Eastern Districts.															
18	Dacca ...	13 0	13 0	15 8	16 0	16 0	20 0	14 0	14 0	16 0	16 0	16 0	17 0	...	...	...
19	Furreedpore ...	12 0	12 0	18 0	12 0	12 0	18 0	10 0	10 0	8 0	14 0	14 0	16 0	...	...	...
20	Backergunge ...	.	...	...	...	...	...	13 5	13 5	13 5	16 0	16 0	15 9	...	...	...
21	Mymensingh ..	11 8	10 0	9 0	...	...	...	10 8	10 0	12 0	14 0	12 12	19 0	...	...	...

A In subdivisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 6 chittacks and Ranegunge 10 seers.
B At Rampore Haut retail price of salt 10½ seers per rupee.
C In subdivisions retail prices of salt per rupee are:—Contai 10 seers, Tumlook 8 seers, and Ghattal 10½ seers.
D In subdivisions retail prices of salt per rupee are: Serampore 10 seers and Jehanabad 10 seers.
E In subdivisions retail prices of salt per rupee are: Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are:—Kooshtea 10 seers, Meherpore 10½ seers, Chooadanga 9 seers, and Ranaghat 9 seers 2 chittacks.
G In subdivisions retail prices of salt per rupee are:—Satkhira 9 seers and Bagirhat 8 seers
H In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are:—Lalbagh 10 seers, Jungipore 10 seers, and Kanch 11 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 31st January 1890.

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
No sale.			20 0	24 0	20 0	100 0	100 0	107 0	A 10 0	10 0	10 7½	3 11 0	3 12 0	3 11 0	Burdwan.
28 0	28 0	19 0	17 0	16 8	18 12	280 0	280 0	320 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.
...	...	...	10 8	12 0	...	160 0	160 0	160 0	B 10 8	10 8	10 0	3 10 0	3 10 0	3 13 0	Beerbhoom.
...	...	...	13 8	13 8	20 0	160 0	160 0	120 0	C 10 3	10 3	10 4	3 15 0	3 15 0	3 14 0	Midnapore.
...	...	...	11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	...	...	13 4	13 8	13 0	100 0	100 0	100 0	10 0	9 2	10 8	3 13 6	3 13 8	3 10 6	Howrah.
															Central Districts.
18 2	18 10	17 6	17 12	16 7	16 7	100 0	100 0	99 10	10 2	10 0	10 5	3 11 0	3 11 6	3 10 2	Calcutta.
...	...	...	20 0	19 0	18 0	100 0	100 0	100 0	E 10 0	10 0	10 0	3 9 6	3 9 6	3 9 6	24-Pergunnahs
...	...	...	20 0	18 14	20 0	...	...	...	F 9 2	9 2	9 2	3 14 0	3 14 0	3 14 0	Nuddea.
...	...	...	...	...	...	160 0	160 0	160 0	G 8 0	9 0	9 4	4 4 0	4 4 0	4 0 0	Khoolna.
...	...	...	16 0	15 0	17 0	160 0	160 0	160 0	H 9 3	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	...	19 0	19 0	20 0	200 0	200 0	200 0	I 11 0	10 12	10 8	3 12 0	3 12 0	3 12 0	Moorshedabad.
...	...	...	...	..	...	16 0	160 0	160 0	J 9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	Dinagepore.
...	...	...	17 10	17 4	19 1	240 0	240 0	240 0	K 9 0	9 9	9 9	4 2 3	4 2 8	4 0 0	Rajshahye.
...	...	...	9 6	9 6	10 5	100 0	100 0	120 0	L 8 14	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.
...	...	...	...	...	...	90 0	90 0	90 0	9 0	9 0	9 0	4 4 0	4 2 8	4 2 8	Bogra.
...	...	...	18 0	15 8	22 8	200 0	200 0	400 0	M 8 11½	8 11½	9 9	4 0 0	4 0 0	3 15 0	Pubna.
18 0	18 0	20 0	8 0	8 0	...	120 0	120 0	120 0	N 8 0	7 0	7 0	5 0 0	5 0 0	5 0 0	Darjeeling.
...	...	...	13 0	13 0	11 0	128 0	128 0	128 0	O 9 0	9 0	9 0	4 2 0	4 2 0	4 4 0	Julpigoree
															Eastern Districts.
...	...	...	14 0	14 0	16 0	160 0	160 0	120 0	P 9 4	9 4	9 14	4 4 0	4 4 0	4 0 0	Dacca.
15 0	15 0	14 0	11 0	11 0	10 0	120 0	120 0	120 0	9 0	9 0	9 0	4 4 0	4 4 0	4 0 0	Furreedpore
...	...	...	...	...	...	120 0	120 0	120 0	Q 10 10	10 10	10 10	3 14 0	3 14 0	3 12 0	Backergunge
...	...	...	14 0	13 0	16 0	...	.	.	R 9 4	9 0	9 10	4 2 0	4 6 0	4 2 0	Mymensingh.

J In Thakurgaon subdivision retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are:—Nattore 9 seers and Nowgong 8 seers 11 chittacks.
L In subdivisions retail prices of salt per rupee are:—Kurigram 9 seers, Nilphamari and Gaibanda 8 seers.
M At Serajgunge retail price of salt 10 seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O At Fallacotta in Alipore subdivision retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are:—Manickgunge 8 seers, Moonshegunge 8 seers 14 chittacks, and Naraingunge 10 seers.
Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Jamalpore 10 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number	DISTRICTS	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	Eastern Districts—concluded	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch	S Ch
22	Chittagong	11 0	11 0	11 0	..	.	...	11 0	11 0	12 0	15 11	15 11	16 3	.	...	...
23	Noakholly ...	...	..	...	.	...	..	16 0	16 0	16 0 Chaplash	18 0	18 0	18 0	...	...	...
24	Tipperah ...	11 7	11 7	12 8				10 0 Gobindabhag	10 0	17 0	16 0	16 0	20 0		.	...
25	Chittagong Hill Tracts				...	.	..	12 4	10 0	11 6½	14 0	11 6	14 8½	..	...	...
	Hill Tipperah ..	6 0	6 0	6 0		.	..	8 0	8 0	10 0	15 0	14 0	19 0	..	...	...
	BEHAR.															
26	Patna .	17 8 Red / 15 8 White	17 6 / 15 8	.. / 17 0	24 0	24 0	21 0	10 8	10 8	11 0	17 14	18 0	15 8	22 0	22 0	21
27	Gya ..	16 0	16 8	13 8	23 0	23 0	15 0	10 8	10 0	9 8	17 0	17 0	15 0	...	...	...
28	Shahabad ...	16 0	16 0	15 4	23 0	22 0	17 0	9 0	9 8	9 0	17 0	17 0	14 4	23 0	21 0	18 4
29	Durbhunga ...	13 3	15 6	12 0	27 8	31 12	16 8	9 14	..	11 0	19 3	20 4	14 0	...	...	...
30	Mozufferpore	14 0	14 0	12 0	20 0	20 0	..	9 0	12 0	9 0	17 0	18 0	13 0	...	...	...
31	Sarun ...	15 8	16 0	15 0	21 0	20 0	20 8	9 4	8 8	8 8	17 6	15 8	13 5	...	...	...
32	Chumparun ..	13 0	13 0	12 0	..	.	19 0	10 0	9 0	9 0	19 0	18 8	13 0	.	...	...
33	Monghyr ...	18 10	18 10	15 3	21 0	21 0	...	16 12	13 2	14 0	19 11	16 13	17 1	...	...	...
34	Bhagulpore ...	16 6	14 11	15 2	20 3	20 3	17 10	11 6	12 0	14 13	18 5	17 10	16 13	...	...	...
35	Purneah ...	18 0	20 0	13 4	...	...	...	18 0	18 0	16 0	19 0	19 0	17 0	...	...	...
36	Maldah ...	16 0	13 0	13 0	...	...	.	8 0	12 0	13 0	17 0	17 0	16 0	...	...	...
37	Santhal Pergns.	13 0	13 4	11 8	..	...	..	12 0	12 0	12 8	17 0	17 0	18 0	...	...	...
	ORISSA															
38	Cuttack ...	11 13	11 13	13 2	..	.	...	10 8	10 8	11 13	22 5	19 11	18 6	...	...	...
39	Pooree ...	13 2	11 13	13 2	...	...	...	15 12	15 12	13 2	23 10	22 10	18 6	...	...	...
40	Balasore ...	15 0	15 0	13 0	13 0	13 0	13 0	13 0	13 0	12 0	19 0	19 0	19 8	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 8	13 0	12 0	15 0	12 0	9 0	10 0	10 0	8 0	18 0	18 0	16 0	...	...	...
42	Lohardugga .	13 12 Red. / 11 12 White	12 8	10 8	..	13 0	...	17 0	17 0	13 0	Ordinary. 20 0 / Coarse. 22 0	19 8 / 22 0	16 8 / ...	...	...	...
43	Singbhoom ...	10 0	10 0	19 0	15 0	20 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...
44	Manbhoom	13 5	13 5	11 14	...	...	...	14 0	15 0	14 0	20 0	22 0	21 0	...	...	...

S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Fenny Hát retail price of salt 8 seers per rupee.
U In subdivisions retail prices of salt per rupee are:—Buxar 10½ seers, Sasseram 11½ seers, and Bhabuah 9⅛ seers.
V In subdivisions retail prices of salt per rupee are:—Tajpore 11 seers and Madhubani 10 seers.
W In subdivisions retail prices of salt per rupee are:—Hajipore 9¼ seers and Sitamarhi 10 seers.
X At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 11th February, 1890.

Station Bazars of the Districts of Bengal on the 31*st January* 1890—(concluded).

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
															Eastern Districts—concluded.
...	...	...	...	...	...	110 0	100 0	108 0	9 S 0	9 0	9 4	4 0 0	4 0 0	3 14 0	Chittagong.
...	...	.	7 0	7 0	...	...	...	...	9 T 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
...	...	...	8 6½	8 6½	8 0	...	...	...	8 14	8 14	8 0	4 8 0	4 8 0	4 6 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR.
22 8	23 0	21 0	21 8	21 0	23 0	130 0	130 0	130 0	10 0	10 0	10 0	3 14 0	3 14 0	3 12 0	Patna.
...	...	...	19 0	19 0	18 0	160 0	160 0	200 0	9 2	9 2	8 12	4 2 0	4 2 0	4 2 9	Gya.
...	...	...	19 0	20 0	14 0	140 0	140 0	160 0	9 U 12	10 0	10 0	3 15 6	3 15 0	4 0 0	Shahabad.
24 3	24 8	19 12	16 8	18 8	22 0	200 0	160 0	160 0	10 V 0	10 0	11 0	3 12 0	3 12 0	3 10 3	Durbhunga.
26 0	22 8	17 0	18 0	18 0	20 0	160 0	160 0	160 0	10 W 0	10 0	10 0	4 0 0	3 12 0	3 12 0	Mozufferpore.
21 12	21 0	20 8	19 8	19 0	20 8	160 0	160 0	160 0	9 8	9 8	10 0	4 0 0	4 2 0	3 14 6	Sarun.
24 8	24 0	17 8	17 8	17 0	22 0	160 0	160 0	160 0	10 X 0	9 8	9 0	4 1 0	4 2 0	4 2 0	Chumparun
22 1	24 2	16 13	16 12	17 13	18 5	147 0	147 0	147 0	9 Y 11	9 11	9 8	4 0 0	4 0 0	4 0 0	Monghyr.
22 11	22 11	17 2	17 11	17 11	17 10	164 0	164 0	176 8	10 1	10 1	9 0	3 15 6	3 15 6	4 0 0	Bhagulpore.
...	...	...	16 0	16 0	16 0	120 0	130 0	2.0 0	9 Z 0	9 8	9 0	4 7 0	4 3 4	4 5 0	Purneah.
...	...	...	...	...	...	160 0	160 0	2) 0	9 0	9 0	10 0	4 4 0	4 0 0	4 0 0	Maldah.
25 0	25 0	20 0	20 0	20 0	24 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 2 0	4 3 0	Sonthal Pergha.
															ORISSA.
...	...	...	14 7	14 7	17 1	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	15 12	14 7	15 12	80 0	80 0	80 0	11 Z1 13	11 13	11 13	3 6 0	3 6 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 Z2 0	10 0	9 12	3 14 0	3 14 0	3 13 6	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
21 0	21 0	16 0	17 0	15 0	16 0	320 0	320 0	320 0	8 0	8 0	8 0	4 6 0	4 6 0	4 8 0	Hazaribagh.
30 0	40 0	19 0	Bir. 15 0 Small. 17 0	15 4	17 0	140 0	130 0	140 0	8 8	8 4	8 8	4 6 0	4 9 0	4 8 0	Lohardugga.
24 0	32 0	...	12 0	12 0	15 0	240 0	240 0	200 0	8 8	7 0	7 0	4 12 0	5 8 0	5 8 0	Singbhoom.
32 0	32 0	23 0	20 0	19 0	17 0	00 0	200 0	200 0	9 Z3 2	9 2	9 0	4 2 6	4 2 6	4 2 6	Manbhoom.

Y In subdivisions retail prices of salt per rupee are :— Baguserai 9½ seers and Jamui 9 seers.
Z In subdivisions retail prices of salt per rupee are : —Kishongunge 8 seers and Arrareah (at Ranigunge) 9 seers.
Z1 In Khoordah subdivision retail price of salt 10 seers per rupee.
Z2 At Bhudruck retail price of salt 8 seers per rupee.
Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 10 9	2 11 8	2 14 10	1 15 11	2 2 7	2 5 2	4 2 7	4 5 9	3 14 5	2 10 1	2 11 5	2 7 1
2	Serajgunge ...	2 4 0	2 0 0	2 10 0	...	...	...	5 8 0	5 4 0	3 12 0	2 10 0	2 10 0	2 10 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	2 0 0	2 14 0	2 14 0	7 0	2 7 0	2 7 0	2 5 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	2 6 0	2 12 0	2 12 0	2 4 0
5	Chittagong ...	3 8 0	3 8 0	2 9 0	...	...	...	3 8 0	3 8 0	3 4 0	2 9 0	2 9 0	2 7 0
6	Patna ...	Red. 2 4 0 / White. 2 8 0	Red. 2 4 6 / White. 2 8 0	... / 2 5 0	1 10 0	1 10 0	1 13 0	3 12 0	3 12 0	3 8 0	2 4 0	2 3 0	2 7 0
7	Balasore ...	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	2 0 0	2 0 0	1 14 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 12 0	1 15 0	2 9 0
	Cuttack ...	3 4 0	3 4 0	3 0 0	...	...	...	3 0 0	3 0 0	3 4 0	1 14 0	2 0 0	2 2 0

CALCUTTA,
The 11th February, 1890.

in the undermentioned Marts of Bengal on the 31*st January* 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CAJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 8	2 3 5	2 7 0	1 15 0	1 14 7	2 0 8	1 15 10	2 2 9	2 2 9	0 5 6	0 5 6	0 5 9	3 11 0	3 11 6	3 10 2	Calcutta.
2 11 0	2 8 0	3 6 0	...	...	...	...	...	...	...	...	...	4 0 0	4 0 0	3 11 0	Serajgunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 4 0	4 4 0	4 0 0	Dacca.
3 2 0	3 0 0	3 0 0	...	...	...	3 4 0	3 4 0	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	4 0 0	3 12 0	Naraingunge.
3 0 0	3 0 0	3 4 6	...	...	...	...	...	...	0 6 0	0 7 0	0 5 3	4 0 0	4 0 0	3 14 0	Chittagong.
1 11 6	1 11 6	2 1 0	1 11 0	1 11 6	1 13 0	1 13 0	1 14 0	1 10 0	0 5 0	0 5 0	0 5 0	3 14 0	3 14 0	3 12 0	Patna.
2 12 0	2 12 0	3 0 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 13 6	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Poorea.
3 8 0	2 12 0	2 0 0	...	...	...	2 12 0	2 12 0	2 0 0	0 8 0	0 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts.	Stock in hand as compiled on—												
	1st week of Feb. 1889.	1st week of Mar. 1889	1st week of April 1889.	1st week of May 1889.	1st week of June 1889	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	7,77,000	12,77,000	13,67,000	12,42,000	7,67,500	8,73,000	7,32,700	6,62,000	5,06,000	4,54,000	2,96,500	3,00,000	5,48,000
Colladanga	71,400	80,200	87,100	82,200	88,000	86,500	78,700	74,400	71,900	67,400	55,400	63,400	83,900
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghat.	6,96,600	7,08,200	7,64,000	7,54,200	6,96,500	6,85,400	6,97,700	5,76,300	6,74,100	6,33,300	5,86,000	6,00,400	5,98,900
Pathuriaghatta. Posta, and Jorabagan.	3,500	2,000	3,200	3,000	2,500	2,000	3,000	4,000	5,000	8,000	2,000	4,000	5,000
Tallygunge, Chitlah, Kidderpore, and Moonshiganje.	1,26,600	1,37,400	1,42,100	1,59,000	1,19,700	1,03,700	1,10,700	72,500	64,550	65,200	66,100	82,750	96,100
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Newabgunge, Dhuddreesur, and Chandernagore.	14,924	28,493	19,792	29,068	19,923	19,906	18,117	14,265	14,352	13,410	14,080	28,425	19,606
Total ..	21,80,024	27,15,293	27,79,192	27,50,466	21,84,123	22,60,506	21,30,917	18,93,465	18,25,932	17,31,310	15,13,080	15,66,975	18,43,506
On Railway premises on both sides of the river.	15,074 (on 4th Feb. 1889.)	6,853 (on 5th Mar. 1889.)	23,414 (on 4th April 1889.)	12,496 (on 4th May 1889.)	6,578 (on 3rd June 1889.)	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	23,007 (on 3rd Jan. 1890.)	22,935 (on 3rd Feb. 1890.)
On boats unloaded ... By Port Commissioners' returns.	44,923 (1st to 3rd Feb. 1889.)	31,937 (1st to 3rd Mar. 1889.)	23,449 (1st to 3rd April 1889.)	17,963 (1st to 3rd May 1889.)	16,066 (1st to 3rd June 1889.)	25,010 (1st to 3rd July 1889.)	1,32,233 (1st to 3rd Aug. 1889.)	25,339 (1st to 3rd Sept. 1889.)	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	65,796 (1st to 3rd Feb. 1890.)
By Canal returns	1,43,675 (1st to 3rd Feb. 1889.)	80,850 (1st to 3rd Mar. 1889.)	36,713 (1st to 3rd April 1889.)	8,972 (1st to 3rd May 1889.)	15,297 (1st to 3rd June 1889.)	27,106 (1st to 3rd July 1889.)	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,43,044 (1st to 3rd Feb. 1890.)
Grand total of Stocks ...	23,33,496	28,34,933	28,62,768	27,89,597	22,22,064	23,20,342	22,96,673	19,48,282	18,97,914	17,81,363	15,48,242	17,90,488	21,81,381
Probable stock available for exportation by sea.	13½ lakhs	17½ lakhs	18 lakhs	17½ lakhs	11½ lakhs	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs

Statistical Department,
The 10th February, 1890.

P. Nolan,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of January 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29 946		
The average pressure of January from 24 years' registers ...	30·014		
The highest pressure in the month	30·128	29th	10
The lowest pressure in the month	29 736	24th	16
The range of pressure	0·392		
	Hours		
The total number of hours of bright sunshine during the month	273 7		
The maximum possible number of hours of sunshine ...	337·3		
	⊖		
The mean temperature of the month	66·3		
The average temperature of January from 24 years' registers	67·7		
The highest temperature in the month	81·7	24th.	
The lowest temperature in the month	47 6	28th.	
The range of temperature during the month	34·1		
The mean daily range of temperature	20·5		
The greatest range of temperature in one day	25·8	28th.	
	Per cent.		
The mean humidity of the month	74		
The average humidity of January from 24 years' registers ...	71		
	Inches.		
The mean vapour tension of the month	0·469		
The average vapour tension of January from 9 years' registers	0·467		
The mean cloud proportion of the month ...	0·82		
The average cloud proportion of January from 13 years' registers	1·46		
	Inches.		
The total rainfall of the month	0·77		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0 76		
The average fall of January from 48 years' registers ...	0·43		
The greatest fall in 24 hours	0·77	25th.	
	Days.		
The number of rainy days in the month	1		
The average number of rainy days in January from 24 years' registers	2		
	⊖		
The mean maximum equilibrium temperature of solar radiation during the month	130·9		
The mean difference of sun and air temperatures	54·0		
The greatest sun temperature	135·5	8th.	
The greatest excess of sun over air temperature	59·0	27th and 29th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	48 7		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	8 1		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	11 4	29th.	
	Miles		
The mean movement of the wind per day	63·4		
The greatest movement of the wind in one day	131·0	25th.	
The greatest movement of the wind in one hour	14·0	24th	10 to 11 and 11 to noon.
The number of hours with winds from each of the 8 points—			

N. 204, N.E. 44, E. 5, S.E. 4, S. 29, S.W. 130, W. 105, N.W. 114, Calm 109.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2·5° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 7th February 1890.

Meteorological Report of the Province

Meteorological Division.	District.	Representative stations.	Station Observations.														
			Air Pressure.					Temperatures.					Humidity.		Cloud.		
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree	30·089	29·859	30·0?9*	30·042*	—	?	52·5	?	59·5	?	—	82	—	0·5	—	0·1(
		Gopalpore	30·091	29·844	29·990	30·032	—·015	84·2	55·0	80·2	62·5	71·3	+0·6	72	—	0·1	—	Nil
		False Point	30·090	29·844	29 091	30·013	—·079	85·9	50 0	79 1	57·8	68·4	—0·5	87	—3	0·8	—1·6	0·1
	Cuttack	Cuttack	30·045	29·795	29·948	30·034	—·052	88·9	50·9	83·5	58·5	71·0	—1·3	73	—5	1 3	—0·3	Nil
	Balasore	Balasore	30·072	29·809	29·970	30·032	—·064	80·4	46·9	80·4	54·9	67 7	+0·1	82*	—	0·1	—	Nil
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs.	Saugor Island	30·088	29·843	29·989	30·016	—·071	81·7	51·7	76·0	60·4	68·2	+0 3	90	+2	0·6	—1·7	Nil
	Midnapore	Midnapore	29·964	29·705	29·866	30·025	—·081	87·3	46·1	81·2	53·3	69·3	+1·6	73	—	0 4	—	Nil
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	30·002	29·843	29·993	30·015	—·079	81·5	47 8	76·9	56·4	66 7	+0·6	87	+3	0·6	—1·3	0·77
	Burdwan	Burdwan	30·020	29·745	29·908	30·015	—·088	85·5	46·7	80·0	53·9	68·0	+1·6	75	0	0·4	—1·2	0·18
	Bankoora	Bankoora	29·787	29·519	29·691	30·013	—·077	86·0	46·2	79·1	54·9	67·0	+1·1	76	—	0·3	—	0·06
	West Burdwan and Beerbhoom.	Ranigunge	29·863	29·503	29·682	30·035	—·075	85·5	46 7	79·6	55·2	67·4	+1·5	74	—	0·4	—	0·07
	Moorshedabad	Berhampore	30·030	29 773	29·938	30·000	—·090	81·6	47·1	77 3	55·2	66 3	+1·2	93	+12	0·7	—1·0	0·12
	Nuddea	Krishnagore	30·076	29·824	29·987	30·037	—·057	84·5	43·8	78·7	51·9	66 3	+2·0	86	—	0·3	—	Nil
	Jessore and Khoolna	Jessore	30·074	29·841	29·989	30·006	—·081	81·7	48 4	78·1	57·3	67·7	+2·1	93	+10	1·2	—0 7	1·55
East Bengal.	Chittagong	Chittagong	30·067	29·813	29·911	30·006	—·079	81·1	50·3	78·6	57·9	68·3	+1·8	90	+3	1·7	+0·1	0·76
	Chittagong Hill Tracts	Demagri	Observations not received.															
	Backergunge	Barrisal	30·071	29·838	29·989	30·002	—·067	79 3	48·1	76·9	57·6	67·3	+2 8	90	—	0 6	—	3·04
	Noakholly	Noakholly	30·072	29·838	29·961*	30·008*	—	81·3	46·0	78·1	55·2	66·7	—	89	—	0·2	—	0·40
	Furreedpore	Furreedpore	30·064	29·849	29·970	30 012	—·062	74·7	49 0	73 4	50·5	61 9	+1·1	94	—	0·8	—	0·21
	Dacca	Dacca	30·057	29·853	29 969	29·993	—·090	81·1	48·2	78·5	56·6	67·6	+1·1	80	+7	1 2	—0·4	1·30
	Tipperah	Commillah	30·071	29·844	29·977	30·014	—·059	80·9	48·1	78·1*	56·2	67 2*	+2·5	87	—	0·6	—	0·74
	Mymensingh	Mymensingh	30·039	29·836	29 947	30·008	—·069	77·9	48 8	75·1‡	57·4	66·3‡	+3·2	92	—	1·3	—	1·63
North Bengal.	Bogra	Bogra	30·011	29·802	29·920	29·987	—·073	80·8	46·5	76·5	54 1	65·3	+0·1	89	—	0·3	—	0·79
	Pubna	Serajgunge	30·145	29·930	29·949	29 908	—·080	81·4	47·9	77·1	53 5	65·3	+2·0	94	—	0·7	—	0·25
	Rajshahye	Rampore Beauleah.	30·037	29·781	29·901	30·005	—·066	80·1	41·9	76·6	54 6	65 6	+3·4	86	—	0·2	—	0·03
	Maldah	Maldah	30·044	29·820	29·939	30·026	—	80·0	42·9	77·5	53·3	64·9	—	84	—	0·5	—	Nil
	Dinagepore	Dinagepore	29 904	29·761	29·893†	30·0?5†	—·078	80·1	43 9	76 3	55·5	64·5	+1·8	87	—	1·3	—	0·60
	Rungpore	Rungpore	30·000	29·787	29·806	30·0?9	—·067	80 0	41·2	76·1	52·4	64·3	+2·9	91	—	0·5	—	0 51
	Julpigoree and Cooch Behar.	Julpigoree	29·827	29·623	29·721	30 026	—·069	?	44·0	?	53·9	?	?	91*	—	1·6	—	0·19
	Darjeeling Hill Tracts	Darjeeling	23·031	22·797	22 933	—	—	53 9	29·1	53·4*	35·7	44·5*	+5·0	83	+9	5·7	+0·6	1·10
North Behar.	Purneah and North Bhagulpore.	Purneah	30·015	29·730	29 881	30·017	—·079	77·7	40·5	74·3	49·9	62·1	+0·8	93	+7	0·7	—0 7	0 03
	Mozufferpore	Mozufferpore	Observations discontinued.															
	Durbhunga	Durbhunga	29·982	29·700	29·852	30·031	—·075	78·9	45·8	75·5	51·2	61·8	+2·8	86	+3	0·8	—0·4	0·23
	Chumparun	Motihari	29·919	29·652	29·788	30·033	—·034	77·2†	41·0	73·8§	49·3	61·4§	+1·9	87	—	1·2	—	1·07
	Sarun	Chupra	29·939	29·693	29·821	30 028	—·052	78·3	43·1	75 9	52·1	64·4	+3·7	82	—	0 7	—	Nil
South Behar.	Shahabad	Dehree	29·781	29·515	29·671	30 051	—·064	81·8	44 0	77·1	52·3	64·7	+3·5	75	—	0·4	—	Nil
		Buxar	29·911	29·634	29 7?2	30 043	—·065	81·4	41·9	75 9	50 5	63·3	+1 8	78	—	0·9	—	0·03
		Arrah	29·950	29·671	30·829†	30·030†	—·043	80 2	41·9	76·0	50 2	63·1	+2·7	82	—	1 5	—	Nil
	Gya	Gya	29·744	29·460	29·638	30·042	—·070	83 6	47·9	77·1	53·8	65·5	+1·5	74	+9	0·9	—1·3	Nil
	Patna	Bankipore	29·971	29·699	29 841	30·037	—·080	78·9	43·3	75·2	52·2	63 7	+2·6	78	—1	0·8	—1·3	0 03
	South Bhagulpore and Monghyr.	Bhagulpore	29·960	29 6.6	29·843	30·015	—·070	79·1	42·5	76·2	52 1	64·1	+2·3	84	—	0·6	—	Nil
	Sonthal Pergunnahs	Naya Doomka	29·698	29·320	29 494	30·027	—	80·9	42·4	77·1	53·4	65·7	—	79	—	0·1	—	0·02
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·049	27·788	27·952	30·050	—·064	80·7	42·9	74·1	51·5	62·8	+1·3	59	—1	0·4	—1·5	Nil
	Lohardugga	Ranchee	27·912	27·670	27·830	30·040	—·066	82·0	37·9	74·4	49·7	62 0	+0·7	65	—	0·3	—	0·01
	Manbhoom																	
	Singbhoom	Chyebassa	29·356	29·002	29·215*	30·030*	—	85·8	44 0	80·2	52·1	66·1	—	60	—	0·2	—	Nil
Assam	Assam	Sibsagar	29·844	29·626	29 741	30·099	—·035	73·6	42·2	69·2	52·6	61·2	+1·4	99	+2	7·7	+2·2	2·88
		Dhubri	29 994	29·779	29·897	30·023	—·084	79 3	50·6	73·4	55·6	64·5	+1·0	91	0	2·2	+0 3	0·94
		Silchar	30·000	29·795	29·911	30·023	—·080	83·8	48·5	78 9	55 8	67 3	+2·8	91	+2	4·6	+1·1	1·45

* Means of 30 days.
† ,, 28 ,,
‡ ,, 29 ,,
§ ,, 21 ,,

Bengal for the month of January 1890.

DISTRICT OBSERVATIONS.												
RAINFALL.												
Of month.					Since 15th May 1889.							
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
0·07	0·31	−0·24	0·3	1·0	74·95	55·63	+19·32	96·8	83·3	Pooree Gopalpore False Point	Pooree	Orissa.
0·15	0·36	−0·21	0·5	1·0	66·30	51·98	+14·41	93·4	79·7	Cuttack	Cuttack	
0·07	0·44	−0·37	0·2	1·0	49·96	53·31	−3·35	83·3	77·2	Balasore	Balasore	
0·14	0·43	−0·29	0·7	1·1	58·87	62·37	−3·50	100·2	85·7	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
0·10	0·50	−0·40	0·7	1·2	46·30	51·57	−5·18	86·1	73·3	Midnapore	Midnapore	
0·72	0·50	+0·22	1·0	1·3	54·10	51·66	+2·44	92·1	90·3	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
0·06	0·39	−0·33	0·7	1·1	43·89	46·71	−2·82	84·2	75·0	Burdwan	Burdwan	
0·05	0·41	−0·36	0·5	1·3	55·93	52·28	+3·65	82·9	82·5	Bankoora	Bankoora	
0·02	0·45	−0·43	0·5	1·5	52·46	51·62	+0·84	85·0	83·9	Ranigunge	West Burdwan and Beerbhoom.	
0·02	0·45	−0·43	0·2	1·2	51·17	50·55	+0·62	82·1	79·2	Berhampore	Moorshedabad	East Bengal.
0·12	0·35	−0·23	0·8	1·1	51·61	49·14	+2·47	88·0	78·2	Krishnagore	Nuddea	
1·36	0·50	+0·86	1·4	1·3	54·75	53·22	+1·53	97·9	84·9	Jessore	Jessore and Khoolna	
0·33	0·70	−0·37	0·5	1·3	100·35	113·78	−13·43	111·5	107·9	Chittagong	Chittagong	
0·04	0·67	−0·63	0·5	1·4	65·17	81·60	−16·43	98·5	114·4	Domagri	Chittagong Hill Tracts	
0·59	0·71	−0·12	2·0	1·3	78·41	77·01	+1·40	103·9	105·8	Barrisal	Backergunge	
0·53	0·70	−0·17	3·0	1·6	90·82	107·11	−16·29	113·5	108·1	Noakholly	Noakholly	
1·90	0·45	+1·45	2·0	1·3	62·21	55·72	+6·50	85·2	86·8	Furreedpore	Furreedpore	
1·60	0·42	−1·18	2·0	1·8	76·19	59·60	+16·59	107·0	91·3	Dacca	Dacca	
1·17	0·65	+0·52	2·0	1·5	56·02	69·31	−13·29	95·1	96·7	Commillah	Tipperah	
1·15	0·38	+0·77	1·8	1·3	58·78	37·31	+21·47	107·0	89·0	Mymensingh	Mymensingh	
0·80	0·37	+0·43	2·0	1·1	65·61	57·23	+8·38	103·7	77·8	Bogra	Bogra	
0·30	0·40	−0·10	1·5	1·4	55·37	53·35	+2·02	108·5	81·3	Serajgunge	Pubna	
0·05	0·50	−0·45	0·7	1·0	54·35	53·88	+0·47	90·3	77·1	Rampore Beauleah	Rajshahye	North Bengal.
Nil	0·47	−0·47	0·0	1·6	39·76	54·22	−14·46	73·5	83·8	Maldah	Maldah	
0·12	0·38	−0·26	0·6	1·3	57·49	57·40	+0·09	85·5	78·2	Dinagepore	Dinagepore	
0·71	0·48	+0·23	2·3	0·9	86·87	73·83	+12·04	87·7	76·5	Rungpore	Rungpore	
0·60	0·46	+0·14	2·4	1·3	117·73	111·25	+6·48	105·4	97·1	Julpigoree	Julpigoree and Cooch Behar.	
0·70	0·88	−0·18	4·8	2·7	133·45	121·37	+12·08	127·6	113·7	Darjeeling	Darjeeling Hill Tracts.	
0·29	0·50	−0·21	0·6	1·2	75·00	58·68	+16·32	75·6	70·1	Purneah	Purneah and North Bhagulpore.	
0·17	0·66	−0·49	1·3	1·7	48·83	43·54	+5·29	71·1	57·9	Mozufferpore	Mozufferpore	North Behar.
0·27	0·64	−0·37	1·3	1·4	52·11	44·72	+7·39	67·0	57·9	Durbhunga	Durbhunga	
0·41	0·67	−0·26	1·5	1·4	63·96	46·79	+17·17	66·0	54·2	Motihari	Chumparun	
Nil	0·67	−0·67	0·0	1·7	40·13	43·98	−3·85	58·4	57·8	Chupra	Sarun	
Nil	0·69	−0·69	0·0	2·0	40·07	40·08	−0·01	68·4	61·1	Dehree Buxar Arrah	Shahabad	
Nil	0·65	−0·65	0·0	2·0	37·07	41·62	−4·55	63·8	57·6	Gya	Gya	South Behar.
Nil	0·57	−0·57	0·0	1·8	45·49	41·32	+2·17	62·9	62·3	Bankipore	Patna	
Nil	0·5	−0·56	0·0	1·7	42·43	43·17	−0·74	69·4	66·3	Bhagulpore	South Bhagulpore and Monghyr.	
Nil	0·37	−0·37	0·0	1·1	54·15	50·79	+3·30	83·1	75·9	Naya Doomka	Sonthal Pergunnahs	
Nil	0·60	−0·60	0·0	1·6	43·03	50·46	−7·43	83·8	81·2	Hazaribagh	Hazaribagh	Chutia Nagpur.
Nil	0·84	−0·84	0·0	2·5	44·34	49·13	−4·79	82·1	86·3	Ranchee	Lohardugga	
0·03	0·48	−0·45	0·3	1·0	38·38	46·98	−8·56	97·1	84·0		Manbhoom	
Nil	0·73	−0·73	0·0	1·8	48·76	51·58	−2·82	100·0	92·3	Chyebassa	Singbhoom	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sibsagar Dhubri Silchar	Assam	Assam.

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA	Pooree	Pooree																				
		Khurdah																				
		Banpur																				
		False Point																				
		Gop																				
		Pipli																				
	Cuttack	Jajatsingpore																				
		Banki																				
		Cuttack																				
		Kendrapara																				
		Jajpore																				
		Dharmsalla																				
		Salipore																				
	Balasore	Chandbali																				
		Bhuddruck																				
		Sorah																				
		Balasore																				
		Jellasore																				
		Baripodah																				
SOUTH WEST BENGAL.	Midnapore	Contai																				
		Sangor Island																				
		Tumlook																				
		Midnapore																				
		Ghatal																				
		Kukrahaty																				
		Bhagwanpore																				
		Garbeta																				
	24-Pergunnahs	Diamond Harbour.																				
		Canning Town																				
		Alipore Jail																				
		Barrackpore																				
		Dum-Dum																				
		Barasat																				
		Hasseerhat																				
	Howrah	Howrah																				
		Mohesreka (*Colooberiah*).																				
	Hooghly	Serampore																				
		Hooghly																				
		Jehanabad																				
	Burdwan	Culna																				0·12
		Burdwan																				
		Cutwa																				0·05
		Hane-gunge																				0·09
		Mankur																				
	Bankoora	Bankoora																				
		Bishenpore																				
		Mahara																				
		Khatra																				
		Indas																				
		Kotalpore																				
		Anda																				
		Gangajalghati																				
		Easpore																				
		Sonamukhi																				
	Beerbhoom	Rh. Soory																				
		Hetampore																				
		Rampore Haut																				0·07
		Nolpur																				
		Mararai																				
	Nuddea	Ranaghat																				
		Kishnaghur																				0·05
		Choondanga																				0·10
		Meherpore																				0·15
		Koosliea																				
	Khoolna	Matkhira																				
		Bagirhat																				0·60
		Khoolna																				0·25
		Nakipur																				
		Rampal																				
	Jessore	Narail																				0·05
		Jessore																				
		Jhenidah																				0·18
		Magoorah																				0·25
		Bongong																				
	Moorshedabad	Kandi																				0·12
		Berhampore																				
		Lalbagh																				
		Azimgunge																				
		Jungipore																				
		Lalgola																				0·04
		Jiagunge																				0·25
		Akhriganj																			0·10	
		Paikabari																				
EAST BENGAL	Chittagong	Cox's Bazar																				
		Chittagong																				
		Kutubdia																				
		Satkanya																				
	Chittagong Hill Tracts.	Rangamati																			0·08	
		Ruma																				

In Bengal in January 1890.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st Jan. 1890.	Average rainfall from 1st January up to 31st January.	Station.	District.	Meteorological division.
...	...	...	...	0·08	...	...	...	...	...	...	1	0·5	0·08	0·26	0·08	0·08	0·26	Pooree ...	Pooree ..	ORISSA.
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·27	Nil	Nil	0·27	Khurdah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·04	Nil	Nil	0·08	Banpur.		
...	...	...	0·05	0·15	...	...	...	...	...	...	2	1·3	0·20	0·58	0·15	0·20	0·58	False Point.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Gop.*		
												?		?			?	*Pipli.*		
...	...	...	...	0·52	...	...	...	...	...	...	1	0·7	0·52	0·35	0·52	0·52	0·35	Jagatsingpore.	Cuttack.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·22	Nil	Nil	0·22	Banki.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·40	Nil	Nil	0·40	Cuttack.		
...	...	...	...	0·21	...	...	...	...	...	...	1	0·7	0·21	0·44	0·21	0·21	0·44	Kendrapara.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·43	Nil	N 1	0·43	Jajpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Balipore.*		
...	...	...	...	0·40	...	...	...	...	...	...	1	3·8	0·40	0·48	0·40	0·40	0·48	Chandbali ...	Balasore.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·39	Nil	Nil	0·39	Bhuddruck.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·25	Nil	Nil	0·25	Sorah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·73	Nil	Nil	0·73	Balasore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·72	Nil	Nil	0·72	Jellasore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·26	Nil	Nil	0·26	Baripodah.		
...	...	...	...	0·05	...	...	...	...	...	...	1	0·8	0·05	0·31	0·05	0·05	0·31	Contai ...	Midnapore ...	SOUTH-WEST BENGAL.
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·34	Nil	Nil	0·34	Saugor Island.		
...	...	...	...	0·20	...	...	...	...	...	...	1	0·8	0·20	0·38	0·20	0·20	0·38	Tumlook.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·72	Nil	Nil	0·72	Midnapore.		
...	...	...	...	0·11	...	...	...	...	...	...	1	1·4	0·11	0·51	0·11	0·11	0·51	Ghatal.		
...	...	...	...	0·19	...	...	...	...	...	...	1	?	0·19	?	0·19	0·19	?	*Kukrahaty.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Bhagwanpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	0·60	Nil	Nil	0·60	*Garbeta.*		
...	...	...	...	0·38	...	...	...	...	...	...	1	1·4	0·38	0·64	0·38	0·38	0·64	Diamond Harbour.	24-Pergunnahs	
...	...	...	...	0·05	...	...	...	...	...	...	1	?	0·05	?	0·05	0·05	?	*Canning Town.*		
...	...	...	...	1·07	...	...	...	...	...	...	1	1·4	1·07	0·71	1·07	1·07	0·71	Alipore Jail.		
...	...	...	...	0·33	...	...	...	...	...	...	1	1·2	0·33	0 45	0·33	0·33	0·45	Barrackpore.		
...	...	...	...	0·85	...	...	...	...	...	...	1	1·3	0·85	0·52	0·85	0·85	0·52	Dum-Dum.		
...	...	...	...	1·10	...	...	...	...	...	...	1	1·2	1·10	0·59	1·10	1·10	0·59	Baraset.		
...	...	...	...	1·49	...	...	...	...	...	...	1	0·9	1·49	0·42	1·49	1·49	0·42	Busserhat.		
...	...	...	...	0·52	...		...	...	...	...	1	2 0	0·52	0·50	0·52	0·52	0·39	Howrah ...	Howrah.	
...	...	...	...	0·40	...	...	...	...	...	...	1	0·8	0·40	0·51	0·40	0·40	0·51	Mohosreka (*Colooberiah*).		
...	...	...	...	0·34	...	...	...	...	...	...	1	1·5	0·36	0·42	0·36	0·36	0·42	Serampore ...	Hooghly.	
...	...	...	...	0·61	...	...	...	...	...	...	1	1·2	0·61	0·45	0·61	0·61	0·45	Hooghly.		
...	...	...	...	0·45	...	...	...	...	...	...	1	1·3	0·45	0·39	0·45	0·45	0·39	Jehanabad.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·46	Nil	Nil	0·46	Culna ...	Burdwan	
...	...	...	...	0·06	...	...	...	...	...	...	2	1·3	0·18	0·34	0·12	0·18	0·34	Burdwan.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·45	Nil	Nil	0·45	Cutwa.		
...	...	...	...	0·02	...	...	...	...	...	...	2	1·4	0·07	0·33	0·05	0·07	0·33	Raneegunge.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·09	?	0·09	0·09	?	*Mankur.*		
...	...	...	...	0·07	...	...	...	...	...	...	1	1·4	0·07	0·37	0·07	0·07	0·37	Bankoora	Bankoora	
...	...	...	...	...	...	...	...	...	...	...	Nil	1 8	Nil	0·38	Nil	Nil	0·38	Bishenpore.		
...	...	...	0·11	...	...	...	...	...	...	...	1	0·9	0·11	0·33	0·11	0·11	0 33	Maliara.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·44	Nil	Nil	0·44	Khatra.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Indas.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Kotalpore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Anda.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	0·36	Nil	Nil	0 30	Gangajalghati.		
...	...	...	...	0·11	...	...	...	...	...	...	1	?	0·11	?	0·11	0·11	?	*Esipore.*		
																		Sonamukhi.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·46	Nil	Nil	0·46	Bh. Soory ...	Beerbhoom.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0 51	Nil	Nil	0·51	Hetampore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·53	Nil	Nil	0·53	Rampore Haut		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·07	?	0·07	0·07	?	*Bolpur.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Murarai.*		
...	...	...	...	0·30	...	...	...	...	...	...	1	0·7	0·30	0·46	0·30	0·30	0·46	Ranaghat ...	Nuddea.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·42	Nil	Nil	0·43	Kishnaghur.		
...	...	...	...	...	...	...	...	...	...	...	1	1·2	0·05	0·31	0·05	0·05	0·31	Chooadanga.		
...	...	...	...	...	...	...	...	...	...	...	1	0·9	0·10	0·31	0 10	0·10	0·31	Meherpore.		
...	...	...	...	...	...	...	...	...	...	...	1	1·4	0·15	0·38	0·15	0·15	0·38	Kooshtea.		
...	...	...	...	2·03	...	...	...	...	...	...	1	1·3	2·03	0·40	2·03	2·03	0·40	Satkhira ..	Khoolna	
...	...	...	...	0·18	...	...	...	...	...	...	2	1·0	1·48	0·69	0·06	1·48	0·69	Bagirhat.		
...	...	...	...	0·79	...	...	...	...	...	...	3	1·5	1·04	0·60	0·79	1·04	0·60	Khoolna.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Nakipur.*		
...	...	...	...	0·37	...	...	...	...	...	...	1	?	0·37	?	0·37	0·37	?	*Rampal.*		
...	...	...	...	2·51	...	...	...	...	...	...	2	1·5	2·54	0·68	2·51	2·54	0·68	Narail ...	Jessore.	
...	...	...	...	1·55	...	...	...	...	...	...	1	1·0	1·55	0·51	1·55	1·55	0·51	Jessore.		
...	...	...	...	...	...	...	...	...	...	...	1	1·-	0·18	0·34	0·18	0·18	0·34	Jhenidah.		
...	...	...	...	0·17	...	...	...	...	...	...	2	1·1	0·42	0·31	0·25	0·42	0·31	Magoorah.		
...	...	...	...	1·03	...	...	...	...	...	...	1	0·7	1·03	0 33	1·03	1·03	0·33	Bongong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·42	Nil	Nil	0·42	Kandi ...	Moorshedabad.	
...	...	...	...	...	...	...	...	...	...	...	1	1·5	0·12	0 44	0·12	0·12	0 14	Berhampore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·50	Nil	Nil	0 ·0	Lalbagh.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·56	Nil	Nil	0·56	Aumgunge.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·44	N	Nil	0·44	Jungipore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·61	Nil	Nil	0·61	Lalgola.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·04	?	0·04	0·04	?	Jaigunge.		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·25	?	0·25	0·25	?	*Akhriguni.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·10	?	0·10	0·10	?	*Patkabari.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·77	Nil	Nil	0·77	Cox's Bazar ...	Chittagong .	EAST BENGAL.
...	...	...	...	...	0·06	...	...	...	...	...	1	1·3	0·66	0·51	0·66	0·66	0·51	Chittagong.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kutubdia.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Satkanya.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·6	0·08	0·56	0·08	0·08	0·56	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·68	Nil	Nil	0·68	Rumu.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
East Bengal —*contd.*	Backergunge...	Patuakhally ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Perojepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
		Burrisal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09
		Khola ...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	0·25
		Gournaddi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bauphal ...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Noakholly ...	Noakholly ...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	0·19
		Fenny ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45
		Harishpore ...	...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...
		Ramganj ..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore ..	Madaripore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·60
		Furreedpore..	.	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	1·80	...
		Goalundo ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·58	...
	Dacca ...	Munshigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·60
		Dacca ..	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	0·22
		Narsinsunge	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	0·44
		Manickgunge	...	...	...	...	...	...	..	...	...	..	...	. .	...	...	...	...	...	...	...	0·51
		Joydebpore ...		...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1·10
	Hill Tipperah	Agartola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·18
	Tipperah ..	Comilla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45
		Chandpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·85
		Brahmunberia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	1·19
		Ramchandrapore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20
		Nasirnagar ...	...	...	..	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	0·30
		Daudkandi ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	0·72
		Kasba ...	...	...	...	...	...	...	..	...	...	...	...	..?	...	...	...	...	...	...	...	...
		Lukshan ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30
	Mymensingh .	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·64
		Mymensingh	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1·16
		Jamalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·34
		Netrokona ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·20
		Suburnakhally	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Durgapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30
		Dewanganj ...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	0·16
North Bengal	Pubna ...	Pubna ...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	..	0·33
		Serajgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08
	Bogra ..	Sherpore ...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowkhilla ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·14
		Bogra ...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	0·20
		Panchbibi ...	...	...	...	...	..	...	...	...	..	...	...	...	..	...	...	...	...	...	...	0·50
	Rajshahye ...	Beauleah ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	.	...	...	...	0·14
		Nattore ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naogaon ...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chanchal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sibganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dinagepore ...	Mohadebpore	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Churamon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinagepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliourghat ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·18
		Rungpore ...	...	...	...	...	...	0·00	...	...	...	...	...	...	...	...	...	...	...	...	...	0·08
		Kurigram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagdogra ... (*Nilphamari*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ulipore ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
	Julpigoree ...	Julpigoree ...	...	...	...	..	...	...	0·05	...	...	...	...	...	...	...	...	...	..	...	...	...
		Alipore Doar	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...
		Falacotta ...	...	...	...	...	...	...	...	0·20	..	...	...	...	...	...	...	...	...	...	...	0·50
		Debiganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·21
		Bhogotpore (*Nagrakatta*).	...	...	...	...	...	0·13	0·22	0·08	...	...	...	...	...	...	...	...	...	...	0·00	0·23
	Cooch Behar..	Dinhatta ...	...	..	..	...	...	0·19	..	...	...	...	..	...	...	...	...	...	...	...	...	0·04
		Cooch Behar...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mekliguree...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mathabhanga...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Darjeeling Hill	Buxa ...	..	...	...	...	...	...	0·10	0·41	...	...	..	0·20	0·15	0·15	...	...	...	0·03	0·27	...
		Siliguri ...	...	...	...	...	...	...	...	0·03												0·02
		Darjeeling ...	...	...	...	...	...	...	...	0·01	0·13	...	...	..	...	..	...	...	...	...	...	0·24
		Kalimpong ...	...	...	...	...	...	...	...	0·16	..	..	...	...	...	...	...	...	...	...	..	0·20
		Kurseong ...	...	..	...	...	...	...	0·12	0·26	0·15	...	...	...	...	...	...	...	...	...	0·70	...
North Behar	Purneah ..	Kissengunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrareah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Purneah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gondwara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bilarampore	...	...	...	..	...	...	...	...	...	...	...	...	...	.	..	...	...	...	...	...
		Matiari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
		Kaliaganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Bhagulpore.	Maddepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soopool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal in January 1890—*continued.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st Jan. 1890.	Average rainfall from 1st January up to 31st January.	Station.	District.	Meteorological division.
...	...	...	...	0·46	...	...	...	...	...	...	1	1·5	0·46	0·77	0·46	0·46	0·77	Patuakhally	Backergunge,	East Bengal—*concld.*
...	...	...	...	0·43	...	...	...	...	...	...	2	1·1	0·48	0·71	0·43	0·48	0·71	Perozepore.		
...	...	...	...	0·50	...	...	...	...	...	...	2	1·4	0·59	0·69	0·50	0·59	0·69	Barrisal.		
0·17	...	...	...	0·41	...	...	...	...	...	...	3	1·3	0·83	0·59	0·41	0·83	0·59	Bhola.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gournaddi.*		
...	...	...	...	0·23	...	...	...	...	...	...	1	?	0·23	?	0·23	0·23	?	*Bauphal.*		
0·08	...	...	...	0·12	0·02	...	...	...	...	...	4	1·6	0·41	0·54	0·19	0·41	0·54	Noakholly ...	Noakholly.	
...	...	...	...	0·20	...	...	...	...	...	...	2	1·5	0·65	0·79	0·45	0·65	0·79	Fenny.		
...	...	...	...	0·36	...	...	...	...	...	...	1	?	0·36	?	0·36	0·36	?	*Harishpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Ramganj.*		
0·30	...	...	...	1·13	...	...	...	...	...	...	3	1·3	2·12	0·61	1·13	2·12	0·61	Madaripore ..	Furreedpore.	
...	...	...	...	...	...	...	...	...	...	...	1	1·4	1·80	0·34	1·80	1·80	0·34	Furreedpore.		
...	...	...	...	0·21	...	...	...	...	...	...	2	1·2	1·76	0·40	1·55	1·76	0·40	Goalundo.		
...	...	...	...	0·58	...	...	...	...	...	...	2	1·6	1·18	0·54	0·60	1·18	0·54	Munshigunge	Dacca.	
...	...	...	...	2·54	...	...	...	...	...	...	3	1·3	2·76	0·30	2·54	2·76	0·30	Dacca.		
...	...	...	...	0·34	...	...	...	...	...	...	2	1·2	0·78	0·39	0·44	0·78	0·39	Narainguni.		
...	...	...	...	1·17	...	...	...	...	...	...	2	1·0	1·63	0·44	1·17	1·68	0·44	Manikgunge		
...	...	...	...	0·78	...	...	...	...	...	...	2	?	1·94	?	1·16	1·94	?	*Joydebpore.*		
...	...	...	...	0·12	...	...	...	...	...	...	2	1·4	0·30	0·83	0·18	0·30	0·83	Agartola ...	Hill Tipperah.	
...	...	...	...	0·35	...	...	...	...	...	...	3	2·1	0·80	0·60	0·45	0·80	0·60	Comilla ...	Tipperah.	
...	...	...	...	0·6	...	...	...	...	...	...	2	1·1	1·15	0·58	0·60	1·15	0·58	Chandpore.		
...	...	...	...	1·25	...	...	...	...	...	...	2	1·6	2·44	0·77	1·25	2·44	0·77	Brahmunberia.		
...	...	...	...	0·39	...	...	...	...	...	...	2	?	0·08	?	0·39	0·08	?	*Ramchandrapore.*		
...	...	...	...	1·50	...	...	...	...	...	...	2	?	1·80	?	1·50	1·80	?	*Nasirnagar.*		
...	...	...	...	0·72	...	...	...	...	...	...	2	?	1·44	?	0·72	1·44	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kasba.*		
...	...	...	...	0·09	...	...	...	...	...	...	2	?	0·39	?	0·30	0·39	?	*Laksham.*		
...	...	...	...	1·24	...	...	...	...	...	...	1	1·6	1·24	0·67	1·24	1·24	0·57	Kishoregunge.	Myrtensingh.	
...	...	...	...	0·85	...	...	...	...	...	...	2	1·2	1·09	0·39	0·85	1·09	0·39	Atia (*Tangail*).		
...	...	...	...	0·22	...	...	...	...	...	...	2	1·3	1·38	0·35	1·16	1·38	0·35	Mymensingh.		
...	...	...	...	0·3	...	...	...	...	...	...	2	0·9	0·87	0·43	0·53	0·87	0·4	Jamalpore.		
...	...	...	...	0·35	...	...	...	...	...	...	2	1·1	0·55	0·19	0·35	0·55	0·19	Netrokona.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Nubornakhally.*		
...	...	...	0·30	...	...	...	...	...	...	...	1	?	0·30	?	0·30	0·30	?	*Durgapore*		
...	...	...	0·14	0·44	...	...	...	...	...	...	3	?	1·08	?	0·44	1·08	?	*Sherepore Town*		
...	...	0·20	0·41	...	...	...	...	...	...	...	3	?	0·77	?	0·41	0·77	?	*Dewanganj.*		
...	...	...	...	...	...	...	...	...	...	...	1	1·4	0·33	0·39	0·33	0·33	0·39	Pubna ...	Pubna ...	North Bengal.
...	...	...	...	0·17	...	...	...	...	...	...	2	1·3	0·25	0·45	0·17	0·25	0·45	Serajgunge.		
...	...	...	...	0·01	...	...	...	...	...	...	1	1·1	0·01	0·35	0·01	0·01	0·35	Sherpore ...	Bogra.	
...	...	...	...	0·34	...	...	...	...	...	...	2	1·4	1·48	0·30	1·14	1·48	0·34	Nowkhilla.		
...	...	...	...	0·30	...	...	...	...	...	...	2	0·9	0·70	0·43	0·30	0·70	0·43	Bogra.		
...	...	...	0·02	0·70	...	...	...	...	...	...	3	0·8	1·02	0·32	0·70	1·02	0·32	Panchbibi.		
...	...	...	...	...	...	...	...	...	...	...	1	1·0	0·14	0·20	0·14	0·14	0·20	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·00	Nil	Nil	0·00	Nattore.		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·34	Nil	Nil	0·00	*Naogaon.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Lalpore.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Manda.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·64	Nil	Nil	0·64	Maldah ...	Maldah.	
...	...	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·51	Nil	Nil	0·51	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gajol.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Sibganj.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·52	Nil	Nil	0·52	Mohadebpore .	Dinagep re.	
...	...	...	...	0·12	...	...	...	...	...	...	Nil	1·6	Nil	0·57	Nil	Nil	0·57	Churamon.		
...	...	...	...	0·49	...	...	...	...	...	...	1	1·0	0·12	0·57	0·12	0·12	0·57	Raigange.		
...	...	...	0·01	...	...	...	...	...	...	...	1	1·6	0·49	0·28	0·49	0·49	0·23	Dinagepore.		
...	...	...	0·34	...	...	...	...	...	...	...	1	1·4	0·01	0·55	0·01	0·01	0·55	Balooghat		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·34	?	0·34	0·34	?	*Thakurgaon.*		
...	...	...	0·02	0·64	...	...	...	...	...	...	3	0·8	0·84	0·34	0·64	0·84	0·34	Bhawaniaunge (*Gyabanda*).	Rungpore.	
...	...	...	0·2	0·20	...	...	...	...	...	...	4	0·9	0·57	0·44	0·20	0·57	0·44	Rungpore.		
...	...	...	0·65	...	...	...	...	...	...	...	1	0·9	0·65	0·51	0·65	0·65	0·51	Kurigram.		
...	...	...	0·80	...	...	...	...	...	...	...	1	0·8	0·80	0·80	0·80	0·80	0·80	Bandogra.		
...	...	...	0·10	...	...	...	...	...	...	...	1	?	0·10	?	0·10	0·10	?	(*Nilphamari.*) *Ulipore.*		
...	...	...	0·13	...	...	...	...	...	...	...	2	1·5	0·18	0·54	0·13	0·18	0·54	Julpigoree ...	Julpigoree	
...	...	...	0·0	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Alipore Doar.*		
...	...	...	0·81	...	...	...	...	...	...	...	3	?	0·80	?	0·50	0·80	?	*Falicotta.*		
...	...	...	...	...	...	...	...	...	...	...	2	?	1·02	?	0·81	1·02	?	*Debiganj.*		
...	...	...	...	...	...	...	...	...	...	...	5	?	0·71	?	0·23	0·71	?	*Bhogotpore (Nagrakatta.)*		
...	...	...	0·44	0·16	...	...	...	...	...	...	4	1·6	0·83	0·54	0·44	0·83	0·54	Dhunutta		
...	...	...	0·50	...	...	...	...	...	...	...	2	1·2	0·55	0·43	0·50	0·55	0·43	Cooch Behar...	Cooch Behar	
...	...	0·31	0·03	...	...	...	...	...	...	...	2	0·9	1·03	0·27	1·00	1·03	0·27	Mickligunge.		
...	...	...	...	0·03	0·04	...	...	...	...	...	2	1·0	0·40	0·34	0·37	0·40	0·34	Matabhanga.		
...	...	...	0·02	0·24	...	...	...	...	...	...	9	3·5	1·28	1·12	0·41	1·28	1·12	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	...	...	...	4	1·7	0·31	0·82	0·24	0·31	0·82	Siliguri.		
...	...	...	...	0·43	...	...	...	...	...	...	3	2·8	0·40	0·69	1·24	0·40	0·69	Darjeeling.		
...	...	0·05	0·00	...	...	...	...	...	...	...	5	2·9	0·79	1·24	0·43	0·79	1·25	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	...	6	?	1·06	?	0·70	1·06	?	Kurseong.		
...	...	...	1·30	...	...	...	...	...	...	...	1	1·3	1·30	0·62	1·30	1·30	0·62	Kissengunge ...	Purneah ...	South Behar.
...	...	...	0·11	...	...	...	...	...	...	...	1	0·9	0·14	0·51	0·14	0·14	0·51	Arrarcah.		
...	...	...	0·02	...	...	...	...	...	...	...	1	1·3	0·03	0·47	0·02	0·02	0·47	Purneah.		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Goadwara.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Balarampore*		
...	...	...	0·10	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Matiari.*		
...	...	...	...	...	...	...	...	...	...	...	1	?	0·20	?	0·20	0·20	?	*Kaliagunj.*		
...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·47	Nil	Nil	0·47	Maddapore ..	North Bhagul-pore	
...	...	...	0·31	...	...	...	...	...	...	...	Nil	1·3	Nil	0·47	Nil	Nil	0·47	Soopool.		
											1	?	0·31	?	0·31	0·31	?	*Protabganj.*		

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
North Behar —*concld.*	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Roshera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Paru ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Siuhar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumparun ..	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...
		Barhurwa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sarun ..	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sewan ...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Behar	Shahabad ..	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhuboosh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ..	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dandnagar ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
		Sheerghati ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.		..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
	Patna ..	Patna ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Behar ...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Harrh ...	..	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	...	...	.	.	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ...	Begoosarai ..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Monghyr ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jumui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
		Gogri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
		Sheikpura ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...
		Bangaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Southal Pergunnahs.	Rajmehal ...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03
		Deoghur ...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Somtagurah ..	. .	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills	...	...	..	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	..	...
		Barhi ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...
		Karaguska ...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	..	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardunga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kanchi ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...
		Palamow ...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Silli ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	..	. .	...	...	..	...	...	...	...	...	...	...	...	...
		Hosainabad...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singhbhoom ...	Chyebassa ...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baharagora...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	..	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Bengal for the month of January 1890—*concluded.*

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st Jan. 1890.	Average rainfall from 1st January up to 31st January.	Station.	District.	Meteorological division.
...	.....	...	...	0·13	..	...	..	...	...	.	1	1·4	0·13	0·64	0·13	0 13	0·64	Tajpore ...	Durbhunga ...	North Behar —*concld.*
...	.....	...	..	0·29	...	...	...	...	...	...	1	1·4	0 23	0·51	0·23	0·23	0·52	Durbhunga.		
...	... ..	...	0·41	0 05	...	...	...	...	...	...	2	1·4	0 46	0·74	0·41	0·45	0·74	Madhubani.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Bahera.*		
...	... ..	...	...	...	...	...	...	...	...	.	Nil	?	Nil	?	Nil	Nil	?	*Koshera.*		
...	.....	...	0·35	0·06	...	...	...	...	...	..	2	1·2	0·39	0·51	0·33	0·39	0 53	Sitamarhi ...	Muzufferpore.	
...	... ..	...	...	0·06	...	...	...	...	...	..	1	1·7	0·06	0 89	0 06	0·06	0·89	Muzufferpore		
...	.....	...	...	0·05	...	...	...	...	...	...	1	2·1	0·05	0·65	0 05	0·05	0 65	Hajipore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Parw.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Mahua.*		
...	.....	...	...	...	...	..	...	...	...	...	4	?	0 40	?	0·30	0·40	?	*Sinhar.*		
...	... ..	...	0·37	0·10	...	...	...	...	...	...	2	?	0·56	?	0·30	0 56	?	*Pupri.*		
...	.....	0·24	0 30	...	...	...	...	...	...	...										
...	.....	...	0·54	..	...	...	...	...	...	...	1	1·6	0·54	0·47	0·54	0·54	0·47	Motihari	Chumparun	
...	... ..	...	0·21	0·06	...	...	...	...	...	...	2	1·3	0 28	0·69	0·22	0·28	0·69	Bettiah.		
...	.....	...	0·37	...	...	...	...	...	...	...	1	?	0·37	?	0·37	0·37	?	*Bagaha.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Barharwa.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·77	Nil	Nil	0·77	Gopalgunge...	Sarun.	
...	... ..	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·75	Nil	Nil	0·75	Sewan		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·71	Nil	Nil	0·71	Chuprah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	0·79	Nil	Nil	0·79	Buxar ...	Shahabad ...	South Behar.
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·5	Nil	0·83	Nil	Nil	0 62	Dehreo.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·68	Nil	Nil	0·68	Bhubooah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·50	Nil	Nil	0·50	Sasseram.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·2	Nil	0 83	Nil	Nil	0·83	Arrah.		
...	.....	...	...	...	..	...	...	...	..	...	Nil	?	Nil	?	Nil	Nil	?	*Mohaniah.*		
...	... ..	...	...	...	...	...	...	...	...	...	Nil	1 8	Nil	0·61	Nil	Nil	0·61	Aurungabad ..	Gya.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·4	Nil	0·73	Nil	Nil	0 73	Gya.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·6	Nil	0 70	Nil	Nil	0·70	Nowadah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·72	Nil	Nil	0·72	Jehanabad.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Arwal.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Daudnagar.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Sheerghati.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Rajauli.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Paku Baraon.*		
..	.....	...	...	...	...	...	...	...	...	..										
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·4	Nil	0·69	Nil	Nil	0·69	Patna ..	Patna.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·89	Nil	Nil	0 55	Dinapore.		
...	... ..	...	...	...	...	...	...	...	...	...	Nil	2 0	Nil	0·67	Nil	Nil	0·67	Behar.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1 4	Nil	0·47	Nil	Nil	0·47	Barrh.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Bishram.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Hilsa.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·56	Nil	Nil	0·56	Begoosarai ...	Monghyr.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·45	Nil	Nil	0 45	Monghyr.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1 6	Nil	0·71	Nil	Nil	0·71	Jamui.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gogri.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Sheikpura.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·80	Nil	Nil	0·80	Bhagulpore ..	South Bhagulpore.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	0 69	Nil	Nil	0·69	Banka.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kolgong.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Bangaon.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·19	Nil	Nil	0·19	Rajmehal ..	Sonthal Pergunnahs	
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·35	Nil	Nil	0·35	Godda		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0 30	Nil	Nil	0 30	Pakour.		
...	.....	...	...	...	...	...	...	...	...	...	1	1 7	0·02	0·55	0 02	0 02	0·55	Nya Doomka.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·43	Nil	Nil	0·43	Deoghur.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·45	Nil	Nil	0·45	Jamtara		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Mohagama.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Nawkhat.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·39	Nil	Nil	0·39	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·8	Nil	0·55	Nil	Nil	0·55	Hazaribagh.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·51	Nil	Nil	0·51	Semtagurah.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1 5	Nil	0 83	Nil	Nil	0 83	Mahudi Hills.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·49	Nil	Nil	0·49	Bhoomrah Hills		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Barhi.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Chatra.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Karagdeha.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kanghar.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	3·3	Nil	0·84	Nil	Nil	0·84	Lohardugga ...	Lohardugga.	
...	... ..	...	...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·79	Nil	Nil	0·79	Ranchi.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·77	Nil	Nil	0·77	Palamow.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Silli.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kulumat.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Rosemabad.*		
...	... ..	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Garwah.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·73	Nil	Nil	0·73	Chyeeasa ...	Singbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Chakradharpore.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Ghatsila.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Baharagura.*		
...	.....	...	...	0·06	...	...	...	...	...	...	1	1·8	0·06	0·49	0·06	0·06	0·13	Puruha ...	Manbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	0 51	Nil	Nil	0·51	Gobindpore.		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Raghunathpore.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Barrabhoom.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Jhalda.*		
...	.....	...	...	..	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, DURING THE MONTH OF JANUARY 1890.

THE normal meteorology of January in Bengal is very similar to that of the two previous cold-weather months, except that usually the cold weather conditions are more strongly developed in this month than in any other part of this season. Fairly strong northerly winds with practically cloudless skies, and with low temperature and humidity, rather high pressure, and an almost complete absence of rain obtain for the greater part of the month, unless these normal conditions are disturbed and almost reversed by the formation or appearance of barometric depressions over Northern India, which subsequently drift in a southerly or south-easterly direction through Central India and the North-West Provinces into Chutia Nagpur, Behar and Bengal. These disturbances give moist southerly and south-easterly winds to Bengal with heavily clouded skies and damp rainy weather, the day temperature remaining low, but the night temperature increasing largely. The heaviness of the rainfall brought up by these depressions varies considerably, but the rainfall is usually largest in Behar.

Practically the whole of the rainfall in January is brought about by these disturbances, and the amount is usually small, averaging from about a third of an inch in Orissa up to nearly two thirds of an inch in North Behar and Chutia Nagpur.

Meteorology of the month.—The chief features in the meteorology of January 1890 have been—

1 Pressure has been rather largely below the normal over the whole province, the defect usually ranging from six to eight-hundredths of an inch, and being comparatively small in the south of Orissa and largest in Western and Central Bengal.

2. The average temperatures for the month have been in excess of the normal in all districts, the excess being comparatively small in Orissa, where it is only about half a degree, while in the other districts and in Assam it varies from about one and-a-half to two and-a-half degrees.

3. Humidity has been above the normal by small amounts at almost all stations.

4. Cloud proportion has been below the normal at almost all stations in Bengal and considerably above it in Assam.

5. The number of barometric depressions from Northern India which have passed through Bengal during January have been small, and all except one have been of such feeble nature as to scarcely call for any record. A very slight disturbance passed apparently along the line of the hills to the north of the province, giving a few showers of rain in and near the hills on the 7th and 8th of January. A second, and also a very feeble, disturbance passed through South-West and East Bengal on the 19th and 20th of January, giving rather numerous showers in these two districts and a few showers in North Bengal The third barometric depression which occurred near the end of the month was decidedly influential and of very much greater importance than the other two. It was first formed or was first noticed in North-Western India on the 22nd, and then travelled in a south-easterly direction, reaching Bengal on the 24th and 25th of January, and on the 26th it had advanced over Burma, giving heavy rain in its advance; and from this storm moderate rain was received in all districts except parts of North Bengal and North Behar, and except the whole of South Behar and Chutia Nagpur.

6. By these actions rainfall has been fairly abundant and considerably above the normal amount in East Bengal, of about the normal amount in South West Bengal and North Bengal, and decidedly deficient in North Behar. In Orissa the falls have been so small that rain may be said to have been practically absent, while in South Behar and Chutia Nagpur the rainfall has been entirely absent.

The weather conditions for the month therefore call for few explanatory remarks, for, except during the three brief periods mentioned in the fifth of the above clauses, weather has been generally of typical north-east monsoon character. Skies have therefore been generally almost cloudless during the greater part of the month, and rainfall has been entirely confined to a few showers during the periods of disturbance above mentioned. Owing to the comparative absence of rain and of the usual cold-weather storms in Upper India, temperature has been above the normal and the northerly winds have been at certain times rather unsteady; the average humidity has also been rather high, owing perhaps to the fact that at one period of the month rather moist southerly winds set in for some days. During the last period of disturbance, and to a much smaller extent in the two smaller disturbances, the normal conditions became partially reversed, and skies clouded over, while the night temperatures rose very considerably.

Pressure—Was at the commencement of the month decidedly below the normal, and the average defect for about the first twenty days was from about five to eight-hundredths of an inch. With the depression which then passed through the province, this defect increased, and on the 24th and 25th pressure became from about a fifth to a quarter of an inch below the normal over a considerable part of the province. With the disappearance of the depression pressure rose rapidly, and by about the 27th and 28th of the month it had become very high, but before the close again it had commenced to fall. The average pressure for the whole month has therefore been decidedly in defect, the usual defect equalling about six to eight-hundredths of an inch. On the whole, the distribution of this defect of pressure has been fairly equal, but, if anything, the defects have been largest in the centre of the province, and least in such districts as Orissa, North Behar, and in parts of Assam such as at Sibsagor, &c.

Temperature—Continued generally decidedly above the normal up till the last week in January, when, under the influence of the rainfall in the plains, and with a moderate fall of snow along the Himalayas, a wave of cold northerly winds set in over the province, causing a very sudden reduction of temperature. So rapid was the fall that at many stations a decrease of 5,° and in some cases of even 9° and 10,° in the mean temperature of the day occurred on the 26th, and from this date to the end of the month very cool weather obtained. For the whole month consequently temperature was above the normal, the mean excess in Bengal equalling 1·8°. In Assam the excess temperature has been almost the same, and it there equals 1 7°.

The actual oscillations and variations of the temperature for the month from the normal are best shown in the following table, where the variations from the normal of the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given week by week :—

Stations	Week ending 10th January 1890.			Week ending 17th January 1890.			Week ending 24th January 1890.			Week ending 31st January 1890.		
	Variation of actual mean maximum temperature of week from normal mean	Variation of actual mean minimum temperature of week from normal mean	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack	−1·6	−1·0	−1·3	−0·3	−0·9	−0·6	+1·1	+1·9	+1 5	−4 0	−4·8	−4·5
Calcutta	+0·8	+2·6	+1·6	+1·0	+0·9	+0·9	+2·2	+4·7	+3·4	−3·4	−3·5	−3·6
Dacca	+2 5	+3 6	+3·1	+0·6	+2·4	+1·6	+1·3	+3·1	+2·1	−3·0	−2·4	−2·7
Burdwan	+1·5	+3·2	+2 4	+2·2	+0·6	+1 5	+2·2	+5·6	+3·8	+1·6	−3 6	−1·0
Patna	+3·2	+4 4	+3 8	+3 4	+2·6	+3·0	+4·0	+6 1	+5·0	−0·4	−3·5	−1·9
Gya	+1·6	+1 4	+1·6	+3·0	+2·4	+2·8	+4 1	+3·6	+3·9	−2·4	−1·7	−2·0
Purneah	−0·2	+4 7	+2 3	+0 5	+2·6	+1·5	+0·6	+4 2	+2·5	−2·4	−4·6	−3·5
Hazaribagh	+1·3	+2 6	+1·9	+3 6	+1·7	+2·5	+4·8	+5·5	+5·2	−2 5	−5·0	−3·9
Darjeeling	+6 5	+2 0	+4·2	+3·9	+1·2	+4·6	+9·1	+1·7	+5·3	+10·5	−0·8	+4·6

Rainfall—On the whole, has been deficient in quantity; South Behar and Chutia Nagpur have been rainless, and Orissa almost so; while the falls in North Behar are little more than a third of the normal amount. In South-West and North Bengal the falls are practically normal, but in East Bengal they are nearly twice as large as usual. Even in South-West Bengal, though on the average a fair amount of rain has fallen, only a few districts have received good falls, and these are 24-Perguunahs, Howrah, Hooghly, Jessore, and Khoolna. In East Bengal the districts receiving the largest fall have been Furreedpore, Dacca, Comillah, and Mymensingh; and in North Bengal the falls have been practically confined to the districts of Bogra, Rungpore, Julpigoree, Cooch Behar, Darjeeling Hills, and Pubna

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of January 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month.			Rainy days.			Since 15th May 1889.	
	Highest observed during month.	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day	Average mean of month above or below normal mean of month	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month	Variation.	Average.	Normal average.
Orissa*	88 9	46·9	80·8	58·4	69 6	+0·6	0 09	0 38	−0·29	0 4	1 0	−0·6	62 10	53 46
South-West Bengal	87 3	43 8	78 5	56·1	67·3	+1·4	0·44	0·45	− 0·01	0·8	1·3	0·4	58·81	51 94
East Bengal	81·3	46·0	77 0	54·8	66·9	+2 1	1·03	0 56	+0·47	1·8	1·4	+0 4	76·80	74·23
North Bengal*	81 4	37 9	76 7	53·2	65 0	+2·0	0·42	0·43	−0·01	1·4	1·2	+0·2	73·34	70 43
North Behar	78·3	40 5	74·9	51·4	63·2	+2·3	0·23	0·60	−0·37	0 9	1·5	−0·6	57·89	48 79
South Behar	82·6	41 9	76·4	51·8	64 1	+2·4	Nil	0·56	−0·56	0·0	1·7	−1·7	44 16	43 86
Chutia Nagpur	82 0°	37 9°	74 3°	50 6°	62 4°	+2·0°	Nil	0 66	−0·66	0 0	1·9	−1·9	43 08	49·67
Assam	83·8	42·2	74·0	54·7	64·3	+1·7								

* Pooree, Julpigoree and Chyebassa not included.

Meteorological Office, Bengal,
The 11th February 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS.													
			Air pressure.			Wind.		Temperature								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A. M., temperature
Orissa.	Pooree	Pooree	30·083	30·096	—	Calm	86	81·6	2, 6, 7 Feb.	56·9	1, 3 Feb.	81·2	61·2°	71·2°	—	65 1
		Gopalpore	30·071	30·093	+·078	NNW	283	79·7	6th ,,	56·0	1st ,,	78·8	62·0	70 4	−2·8	67·2
		False Point	30·083	30 105	+·044	NW	137	80·9	4th ,,	50 5	1st ,,	79 3	56 2	67·8	−3·3	68·0
	Cuttack	Cuttack	30·020	30·114	+·059	Calm	21	87 9	7th ,,	53·9	1st ,,	85·3	60·3	73 8	−1·8	68 3
	Balasore	Balasore	30·052	30 114	+·052	NNW	79·3	82·4	4th ,,	48·4	1st ,,	81·0	53·3	67·2	−2·4	68 5
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Sangor Island	30·084	30·111	+·053	NNW & NE	178 0	78 2	2nd ,,	55·3	2nd ,,	76 8	57 8	67 3	−2 8	61 6
	Midnapore	Midnapore	29 958	30·118	+·045	E	21·1	84·3	5th ,,	51 2	1st, 3rd ,,	82·0	53·9	68 0	−0·8	60 6
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·090	30 113	+·048	Calm	51·0	78 5	5th ,,	51 9	1st ,,	77·3	53 2	65·3	−2·4	59·0
	Burdwan	Burdwan	30 005	30 111	+ 042	Calm	22·7	81·0	7th ,,	48·3	3rd & 4th Feb.	79 7	50·6	65·2	−2·6	56·4
	Bankoora	Bankoora	29·776	30·100	+·042	Calm & W	38·0	80·9	5th ,,	50·3	2nd ,,	80·1	51·7	65 8	−1 7	56·9
	Beerbhoom, West Burdwan	Ranegunge	29·780	30·138	+·055	WNW	46·4	81·7	5th, 6th ,,	50·2	1st, 3rd ,,	80·3	51·1	65·9	−1·4	56·1
	Moorshedabad	Berhampore	30·030	30·111	+ 044	WNW	39·1	78·6	5th & 7th Feb.	47 6	6th ,,	77·6	49·4	63·5	−2·7	54·4
	Nuddea	Krishnaghur	30·065	30·135	+·074	NNW	39·2	79·8	5th, 7th ,,	44·9	7th ,,	79·2	46 9	63·0	−2·4	57 2
	Jessore, Khoolna	Jessore	30·073	30·108	+·055	Calm	23·8	76·2	7th ,,	40 9	7th ,,	77 6	51·9	64·8	−2·3	55·8
East Bengal.	Chittagong	Chittagong	29 991	30·087	+·025	NW	51·0	81·1	1st, 2nd ,,	51·2	7th ,,	80 1	52·6	66 4	−1·1	59·1
	Chittagong Hill Tracts	Demagiri						Observations not received								
	Backergunge	Barrisal	30·074	30·087	+·056	Northerly	35·3	77·3	5th, 7th Feb.	50·1	7th ,,	76·7	52 0	64·4	−2 6	59·7
	Noakholly	Noakholly	30·055	30·101	—	N	88·7	79·0	1st, 2nd, 6th Feb.	47·0	5th, 6th ,,	78·4	48·4	63·4	—	62·0
	Furreedpore	Furreedpore	30·068	30 110	+·054	Calm & N	44·0	74 0	1st & 3rd Feb	49·5	6th, 7th ,,	73·7	51·0	62·4	−2·9	57·8
	Dacca	Dacca	30·061	30 085	+·031	Northerly	59·3*	80·1	1st ,,	48·2	7th ,,	78·1	50 7	64 4	−3·0	58·8
	Tipperah	Commillah	30·070	30 107	+·059	NW	21·8	80·4	1st ,,	48·1	6th ,,	78·7*	49·8	64·2*	−2·6	59·0
	Mymensingh	Mymensingh	30 037	30·068	+·039	N	39 5	77·1	1st ,,	48·1	6th ,,	75·9	49 6	62·7	−1·4	55·2
North Bengal.	Bogra	Bogra	30·009	30·077	+·049	W	36·1	78·3	7th ,,	47·0	3rd, 5th ,,	77·3	48 2	62·8	−0·9	53·2
	Pubna	Serajgunge	30·045	30·095	+ 049	Westerly	18 0	78·5	7th ,,	44·0	5th ,,	77·7	47·5	62·6	−1·4	55·1
	Rajshahye	Rampore Beauleah	30 030	30 104	+·066	N	83·7	77·9	1st ,,	45·9	5th ,,	76·4	48 1	62·2	−1·0	56 1
	Maldah	Maldah	30·042	30·129	—	NW	61·5	78 6	7th ,,	42·7	5th ,,	77·4	44·5	61·0	—	57·9
	Dinagepore	Dinagepore	29 973	30·103	+ 037	W	28·0	78·1	1st & 7th Feb	44 9	5th ,,	77 2	46·1	61 7	−0·6	54·4
	Rungpore	Rungpore	29·978	30 114	+·074	Calm & E	17·0	77 8	7th ,,	44·0	2nd ,,	76·7	45·3	61·0	+0·5	53 5
	Julpigoree, Cooch Behar	Julpigorse	29·792	30 101	+·060	N	48·1	?	?	46 5	2nd ,,	?	48 1	?	?	53·8
	Darjeeling Hill Tracts	Darjeeling	22 991	—	—	SE	63·0	53·4	6th—7th Feb.	33·5	4th ,,	53 3†	34·8	44·1†	+7 0	39·1
North Bihar.	Purneah, North Bhagulpore	Purneah	29·975	30·114	+·057	Westerly	44 4	75·7	7th ,,	42·0	5th ,,	74 8	43·6	59·2	−2·7	49·5
	Mozufferpore	Mozufférpore						Observations suspended.								
	Durbhunga	Durbhunga	29·939	30·120	+·054	WSW	57·4	77·4	7th Feb.	?	?	75·9	?	?	?	54·6
	Chumparun	Motihari	29·878	30·125	+·078	SW	98·9	76·2	7th ,,	41·9	4th ,,	74·1	43·6	58·9	−1·2	50·8
	Sarun	Chupra						Observations incomplete.								
South Bihar.	Shahabad	Dehree	29·762	30·145	+·070	SW	130 4	79·8	7th ,,	47 5	6th ,,	77 7	49·6	63·7	+0·9	54·4
		Buxar	29·877	30 139	+·062	W NW	69 4	78 9	7th ,,	43·9	2 & 5 ,,	76 5	46·2	61·3	−0·7	53 6
		Arrah	29·920	30·132	+·061	Calm	66·5	77·9	4th ,,	42·6	6th ,,	75·7	44·2	59·9	−1·6	51·6
	Gya	Gya	29·734	30·140	+·060	S	103·8	79·5	7th ,,	50·6	6th ,,	77 6	51·8	64·7	−0 9	56·7
	Patna	Bankipore	29 934	30 122	+·058	SW	37·4	76·9	4th ,,	45·4	2nd ,,	75 1	46·6	60 8	−1·4	55·7
	South Bhagulpore, Monghyr	Bhagulpore	29·936	30·110	+·054	Calm	10·0*	78·1	6th ,,	43·0	6th ,,	76 9	45·2	61·1	−1·9	52·0
	Sonthal Pergunnah	Doomka	29·894	30·132	—	NW	57·0	79·4	7th ,,	44·0	6th ,,	77·5	46·5	62·0	—	54·2
Chutia Nagpur.	Hazaribagh	Hazaribagh	28 048	30 145	+·046	Westerly	146·4	76 9	7th ,,	46·6	1st, 2nd ,,	75 7	49 8	63 7	−0·2	57·8
	Lohardugga, Manbhoom	Ranchee	27·898	30 126	+·042	Calm	93·7	79·5	7th ,,	46·6	1st, 5th ,,	76·4	49 8	63·8	−0·6	57·1
	Singbhoom	Chyebassa	29·310	30·141	—	South-westerly.	30·6	83·2	4th ,,	47·5	1st ,,	81·0	50·6	65·8	—	59·1

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last [illegible] *umidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 7th of February 1890.

Average humidity at 8 A.M.	Average cloud amount at 6 A.M. for week.	Rainfall of week at observing station.	OF WEEK. Mean for district.	OF WEEK. Normal mean.	DISTRICT OBSERVATIONS. RAINFALL. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15 h May 1889. Mean for district.	Since 15 h May 1889. Normal mean.	Since 15 h May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
84	0	Nil	Nil	0·15	Nil	0·15	−0·15	74·94	55·78	+19·16	0·0	0·3	Pooree	Pooree	Orissa.
78	0·1	Nil											Gopalpore		
88	0·9	Nil											False Point		
75	4·3	Nil	Nil	0·21	Nil	0·21	−0·21	66·39	52 19	+14·20	0·0	0·4	Cuttack	Cuttack	
73	0·4	Nil	Nil	0·33	Nil	0·33	−0·33	49·96	53·64	−3·68	0·0	0·6	Balasore	Balasore	
93	0	Nil	Nil	0·57	Nil	0·57	−0·57	58·57	62·94	−4·37	0·0	0·7	Saugor Island	South-West Midnapore, South 24-Parganas	South-West Bengal.
64	0	Nil	Nil	0·43	Nil	0·43	−0·43	46·39	52 00	−5·61	0·0	0·5	Midnapore	Midnapore	
78	0	Nil	Nil	0·51	Nil	0 51	−0·51	54·10	52·17	+1·93	0·0	0·7	Calcutta	24-Parganas, Howrah, Hooghly	
64	0	Nil	Nil	0·42	Nil	0·42	−0 42	43 89	47·13	−3·24	0·0	0·7	Burdwan	Burdwan	
62	0	Nil	Nil	0·12	Nil	0·12	−0·12	55·93	52·40	+3·53	0·0	0·5	Bankoora	Bankoora	
60	0	Nil	Nil	0·30	Nil	0·30	−0·30	52·46	51·92	+0·54	0·0	0·6	Raneegunge	Beerbhoom, West Burdwan	
84	0	Nil	N l	0·28	Nil	0·28	−0·28	51·17	50·83	+0·34	0·0	0·6	Berhampore	Moorshedabad	
75	0	Nil	Nil	0·38	Nil	0·38	−0·38	51·61	49·52	+2·09	0·0	0·6	Krishnaghur	Nuddea	
91	0	Nil	Nil	0·39	Nil	0·39	−0·39	54·75	53 61	+1·14	0·0	0·6	Jessore	Jessore, Khoolna	
76	0	Nil	Nil	0·12	Nil	0·12	−0·12	100 35	113·90	−13·55	0·0	0·5	Chittagong	Chittagong	Rast Bengal.
			Nil	0 19	Nil	0·19	−0·19	65·17	81·79	−16·62	0·0	0·5	Demagiri	Chittagong Hill Tracts	
83	0	Nil	Nil	0·30	Nil	0·30	−0·30	78·41	77·31	+1·10	0·0	0 6	Barrisal	Backergunge	
75	0	Nil	Nil	0·30	Nil	0·30	−0·30	90·82	107·41	−16 59	0·0	0·6	Noakholly	Noakholly	
86	0	Nil	Nil	0·37	Nil	0·37	−0·37	62·22	56·09	+6·13	0·0	0·6	Furreedpore	Furreedpore	
77	0	Nil	Nil	0·35	Nil	0·35	−0·35	76·19	59·95	+16·24	0·0	0·6	Dacca	Dacca	
77	0	Nil	N l	0·23	Nil	0·23	−0·23	56·62	69 54	−12·92	0·0	0·5	Commillah	Tipperah	
86	0·1	Nil	Nil	0·26	Nil	0·26	−0·26	88·78	67·57	+21·21	0 0	0 5	Mymensingh	Mymensingh	
78	0	Nil	N l	0 19	Nil	0·19	−0 19	65·62	57·48	+8·20	0·0	0·4	Bogra	Bogra	
81	0	Nil	Nil	0·30	Nil	0·30	−0 30	55·37	53·65	+1·72	0·0	0 5	Serajgunge	Pubna	
74	0	Nil	Nil	0·23	Nil	0·23	−0·23	54·35	54·11	+0 24	0·0	0 6	Rampore Beauleah	Rajshahye	
71	0	Nil	Nil	0·18	Nil	0·18	−0 18	39·76	54 40	−14 64	0·0	0·5	Maldah	Maldah	
85	0	Nil	Nil	0 06	Nil	0·06	−0·06	57·49	57·46	+0 03	0·0	0·4	Dinagepore	Dinagepore	North Bengal.
85	0	Nil	Nil	0·06	Nil	0·06	−0 06	85 87	73·89	+11·98	0·0	0·2	Rungpore	Rungpore	
83	0	Nil		0·03	Nil	0·03	−0·03	117·73	111·28	+6 45	0·0	0·1	Julpigoree	Julpigoree, Cooch Behar	
88	2·3	Nil	Nil	0·12	Nil	0·12	−0·12	133·48	121·49	+11·97	0·0	0·5	Darjeeling	Darjeeling Hill Tract	
83	0	Nil	Nil	0·12	Nil	0·12	−0·12	78·00	58·80	+19·20	0·0	0·4	Purneah	Purneah, North Bhagulpore	
			Nil	0·11	Nil	0·11	−0·11	48·83	43 65	+5·18	0·0	0 3	Mozufferpore	Mozufferpore	North Behar.
73	0·1	Nil	Nil	0·11	Nil	0·11	−0·11	52·11	44 83	+7·28	0·0	0·2	Durbhunga	Durbhunga	
83	1·4	Nil	Nil	0·13	Nil	0·13	−0·13	63·96	46·92	+17·04	0·0	0·4	Motihari	Chumparun	
			Nil	0·06	Nil	0·06	−0·06	40·13	43·04	−2·91	0 0	0 3	Chupra	Sarun	
66	0	Nil											Dehree	Shahabad	
86	0·7	Nil	Nil	0·14	Nil	0·14	−0·14	40·07	40·22	−0·15	0·0	0·4	Buxar		
65	0 5	Nil											Arrah		
88	0	Nil	Nil	0 18	Nil	0·18	−0·18	37·07	41·80	−4·73	0·0	0·4	Gya	Gya	South Behar.
85	0·4	Nil	Nil	0·19	Nil	0·19	−0·19	43·49	41 51	+1·98	0·0	0·4	Bankipore	Patna	
72	0	Nil	Nil	0·18	Nil	0·18	−0 18	42·43	43·35	−0·92	0·0	0·4	Bhagulpore	South Bhagulpore, Monghyr	
62	0	Nil	Nil	0 22	Nil	0·22	−0·22	54·15	51·01	+3·14	0·0	0·4	Doomka	Sonthal Pergunnahs.	
41	0	Nil	Nil	0·12	Nil	0·12	−0·12	43·03	50·58	−7·55	0·0	0·4	Hazaribagh	Hazaribagh	Chutia Nagpur.
49	0	Nil	Nil	0 23	Nil	0 23	−0·23	44·34	40·36	−5·02	0·0	0·7	Ranchi	Lohardugga, Manbhoom	
			Nil	0·44	Nil	0·44	−0·44	38·36	47 36	−9·00	0·0	0·7			
62	0	Nil	Nil	0·37	Nil	0·37	−0·37	48·76	51 95	−3·19	0·0	0·8	Chyebassa	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

ascertaining cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of February 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 1st February.	Sunday, 2nd February.	Monday, 3rd February.	Tuesday, 4th February.	Wednesday, 5th February.	Thursday, 6th February.	Friday, 7th February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	80·71	51·55
		Khurdah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·16	76·57	56·06
		Banpur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	Nil	65·50	44·01
		False Point ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·22	77·00	54·10
		Gop ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Pipli ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	74·40	47·13
		Banki ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·18	52·43	49·68
		Cuttack ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·26	75·18	56·61
		Kendrapara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	72·24	53·86
		Jajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·51	57·64	56·86
		Dharmsala ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	50·25	?
		Salipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	72·47	?
	Balasore ...	Chandbali ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·31	55·04	52·78
		Bhuddruck ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·54	57·06	56·24
		Sorah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·24	46·05	51·36
		Balasore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	46·61	58·24
		Jellasore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	39·59	54·38
		Baripodah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	51·79	53·87
South-West Bengal.	Midnapore ...	Contai	......	......	......	......	......	......	......	Nil	Nil	Nil	0·58	55·18	61·85
		Saugor Island	......	......	......	......	......	......	......	Nil	Nil	Nil	0·57	56·74	67·66
		Tumlook ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·67	49·60	51·87
		Midnapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·32	46·26	49·23
		Ghuttal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·29	48·30	54·55
		Kukrahaty .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	59·84	?
		Bhagwanpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·72	?
		Garbetta ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·53	63·79	59·09
		Canning Town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·85	?
		Alipore Jail ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·48	52·57	56·33
		Barrackpore...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·74	52·12	50·50
		Dum-Dum ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·44	65·43	52·14
		Baraset ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·56	58·71	50·53
		Buseerhat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	62·41	54·93
	Howrah ..	Howrah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	59·64	52·29
		Moheereka (*Ooloberiah.*) ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	55·04	52·38
	Hooghly ..	Serampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·68	55·51	50·76
		Hooghly ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·64	37·53	48·81
		Jehanabad ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·60	41·61	55·65
	Burdwan ...	Culna ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·43	41·32	44·78
		Burdwan ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·57	47·25	48·19
		Cutwa ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·45	43·11	45·84
		Raneegunge .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·35	55·90	49·36
		Mankur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·80	?
	Bankoora ..	Bankoora ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	51·86	51·89
		Bishenpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·02	57·49	52·00
		Maliara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·11		52·64
		Khatra ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·03	65·91	54·26
		Indas ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·14	?
		Kotalpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	48·40	?
		Anda .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	40·44	?
		Gungajalghati	......	......	......	......	......	......	......	Nil	Nil	Nil	?	59·17	?
		Raipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·35	?
		Sonamukhi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	54·44	?
	Beerbhoom	Bh. Soory ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·44	59·06	54·15
		Hetampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	47·07	54·50
		Rampore Haut	......	......	......	......	......	......	......	Nil	Nil	Nil	0·21	47·76	51·77
		Nalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·04	?
		Murarai ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·10	?
	Nuddea ..	Ranaghat ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·37	50·10	47·43
		Kishnaghur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	42·95	46·50
		Choosdanga .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	49·86	51·37
		Meherpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	51·15	47·82
		Kooshtea	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	56·06	54·77
	Khoolna ..	Satkhira ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	51·54	55·54
		Bagirhat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·47	55·46	61·97
		Khoolna ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·35	56·83	55·17
		Nakipur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Rampal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	52·01	46·31
		Jessore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·37	63·90	54·72
		Jhenidah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	50·74	53·74
		Magoorah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·36	56·00	49·53
		Bongong ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·47	47·66	51·23
	Moorshedabad	Kandi ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·18	51·38	51·26
		Berhampore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·35	46·28	51·65
		Lalbagh ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	47·13	50·95
		Azimgunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	[illegible]	?	51·50
		Jungipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·55	55·01	49·48
		Lalgola ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·25	[illegible]	51·19
		Jiagunge ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·20	?
		Akhrigunj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	43·06	?
		Patkabari ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ..	Cox's Bazar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·05	123·50	135·86
		Chittagong ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·10	77·08	94·62
		Kutubdia ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	113·09	?
		Satkania ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	63·66	?
	Chittagong Hill Tracts.	Rangamati ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·25	68·12	82·09
		Ruma ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	67·20	80·64
	Backergunge	Patuakhally ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	87·76	88·13
		Perozepore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	72·64	70·45
		Burrisal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	73·21	68·05
		Bhola ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·14	80·09	82·15

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of February 1890—contd.

Meteorological Division.	District.	Station.	Rainfall. Thursday, 1st February 1890.	Sunday, 2nd February.	Monday, 3rd February.	Tuesday, 4th February.	Wednesday, 5th February.	Thursday, 6th February.	Friday, 7th February.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
East Bengal—contd.		Gourasdda								Nil	Nil	Nil	?	61·31	?
		Bauphal								Nil	Nil	Nil	?	98·12	?
	Noakholly	Noakholly								Nil	Nil	Nil	0·25	102·58	108·05
		Feuny								Nil	Nil	Nil	0·35	79·03	107 07
		Harishpore								Nil	Nil	Nil	?	81·32	?
		Ramgunj								Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore								Nil	Nil	Nil	0·28	62·93	55·33
		Furreedpore								Nil	Nil	Nil	0 35	65 00	56·61
		Goalundo								Nil	Nil	Nil	0·49	58·05	53·48
	Dacca	Munshigunge								Nil	Nil	Nil	0·42	77·51	70·50
		Dacca								Nil	Nil	Nil	0·31	76·45	58 69
		Narainguuge								Nil	Nil	Nil	0·41	81·14	60·19
		Manickgunge								Nil	Nil	Nil	0·28	60·07	50 28
		Joydebpore								Nil	Nil	Nil	?	69·55	?
	Hill Tipperah	Agartola								Nil	Nil	Nil	0 21	44·56	61 76
	Tipperah	Comilla								Nil	Nil	Nil	0·25	62·97	76·36
		Chandpore								Nil	Nil	Nil	0·22	68·97	76 01
		Brahmunberia								Nil	Nil	Nil	0·24	53·12	61·95
		Ramchandrapore.								Nil	Nil	Nil	?	60·53	?
		Nasirnagar								Nil	Nil	Nil	?	32 50	?
		Daudkandi								Nil	Nil	Nil	?	53·74	?
		Kasba								Nil	Nil	Nil	?	62 45	?
		Laksham								Nil	Nil	Nil	?	69·18	?
	Mymensingh	Kishoregunge								Nil	Nil	Nil	0·26	70·86	70·38
		Atia (Tangail								Nil	Nil	Nil	0·30	63·09	55·70
		Mymensingh								Nil	Nil	Nil	0·21	97·45	74·37
		Jamalpore								Nil	Nil	Nil	0·37	100·1	64·53
		Netrakona								Nil	Nil	Nil	0 10	124·47	72·94
		Sohorunkhelli								Nil	Nil	Nil	?	57·43	?
		Durgapore								Nil	Nil	Nil	?	150 38	?
		Sherpore Town								Nil	Nil	Nil	?	58·17	?
		Dewanganj								Nil	Nil	Nil	?	57 08	?
North Bengal	Pubna	Pubna								Nil	Nil	Nil	0·31	50·20	53·96
		Serajgunge								Nil	N	Nil	0 30	60·51	53·16
	Bogra	Sheopore								Nil	Nil	Nil	0·09	52·07	57·51
		Nowkuhia								Ni	Nil	Nil	0 07	52·45	54·27
		Bogra								Nil	Nil	Nil	0 41	71·38	61·06
		Panchbibi								Nil	Nil	Nil	0 17	53·98	55·59
	Rajshahye	Beauleah								Nil	Nil	Nil	0·27	46·74	53·28
		Nattore								Nil	Nil	Nil	0·30	58·81	55 22
		Naogaon								Nil	Nil	Nil	0·01	57·87	51·43
		Lalpore								Nil	Nil	Nil	?	30·73	?
		Mande								Nil	Nil	Nil	?	43·27	?
	Maldah	Maldah								Nil	Nil	Nil	0·17	50·53	51·39
		Chanchal								Nil	Nil	Nil	0·19	29·91	56·90
		Gazol								Nil	Nil	Nil	?	59·79	?
		Sibgunj								Nil	Nil	Nil	?	51·77	?
	Dinagepore	Mohadeopore								Nil	Nil	Nil	0 03	51·61	56 41
		Churamon								Nil	Nil	Nil	Nil	51·81	53·58
		Raigunge								Nil	Nil	Nil	0 04	52·37	57·87
		Dinagepore								Ni	Nil	Nil	0 5	48·33	53·27
		Balurghat								Nil	Nil	Nil	0·10	61 29	51·32
		Thakoorgaon								Nil	Nil	Nil	?	57·81	?
	Rungpore	Bhawanigunge (Gyabandia)								Nil	Nil	Nil	0 08	53·39	61·74
		Rungpore								Nil	Nil	Nil	0 08	74·98	74·03
		Kurigram								Ni	Nil	Nil	0 03	91 62	73·37
		Hagdara (Nilphamari)								Nil	Nil	Nil	0·06	88·49	85·26
		Ulipore								Nil	Nil	Nil	?	79·10	?
	Jalpigoree	Jalpigoree								Nil	Nil	Nil	0 05	133·45	117 06
		Alipore Duo								Nil	Nil	Nil	?	118·58	?
		Fallacotta								Nil	Nil	Nil	?	123·23	?
		Dohigunj								Nil	Nil	Nil	?	90·74	?
		Bhagalpore (Nauraketta).								Nil	Nil	Nil	?	139·22	?
	Cooch Behar	Limbua								Ni	Nil	Nil	Nil	98·83	86 39
		Cooch Behar								Nil	Nil	Nil	0·07	125·39	118·37
		Mekhligunge								Nil	Nil	Nil	Nil	122·40	103·74
		Mathbhanga								Nil	Nil	Nil	Nil	118·03	111·64
	Darjeeling Hills.	Buxa								Nil	Nil	Nil	0·16	122·37	122·39
		Siliguri								Nil	Nil	Nil	0 02	121·02	103 43
		Darjeeling								Nil	Nil	Nil	0 20	128·27	106·95
		Kalimpong								Nil	Nil	Nil	0 10	92·18	84·07
		Kurseong								Nil	Nil	Nil	?	170·23	?
North Behar	Purneah	Kissengunge								Nil	Nil	Nil	0 09	103·67	70·51
		Arrarea								Nil	Nil	Nil	0 10	79·75	63·84
		Purneah								Nil	Nil	Nil	0·14	83·47	61·74
		Gondwara								Nil	Nil	Nil	?		?
		Balarampore								Nil	Nil	Nil	?		?
		Matiari								Nil	Nil	Nil	?		?
		Kalaganj								Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore								Nil	Nil	Nil	0·11	60·85	49·66
		Scopol								Nil	Nil	Nil	0·09	67·.6	66·27
		Protabganj								Nil	Nil	Nil	*	85·16	?
	Durbhunga	Lajpore								Nil	Nil	Nil	0 10	42·37	43 33
		Durbhunga								Nil	Nil	Nil	0·11	51·24	43·97
		Madhubani								Nil	Nil	Nil	0·11	53·36	45·19
		Rahera								Ni	Nil	Nil	?	69·05	?
		Benares								Nil	Nil	Nil	?	25·84	*
	Mozufferpore	Sitamarhi								Nil	Nil	Nil	0·09	51·45	45·30
		Muzufferpore								Ni	Nil	Nil	0· 8	48 47	45 63
		Hajipore								Nil	Nil	Nil	0 16	42·57	42·21
		Para								Nil	Nil	Nil	?	37·49	?
		Sinnua								Nil	Nil	Nil	?	41·05	?
		Roshar								Ni	Nil	Nil	*	?	?
		Pupri								Nil	Nil	Nil	?	48·14	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of February 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 1st February.	Sunday, 2nd February.	Monday, 3rd February.	Tuesday, 4th February.	Wednesday, 5th February.	Thursday, 6th February.	Friday, 7th February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	75·33	44·96
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	52·57	48 33
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·24	?
		Harhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·79	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	35·48	43·89
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	44·20	44·08
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	40·76	40·72
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	47·41	38·76
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	41·06	40·06
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	38·16	41·09
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	29·61	40·95
		Mohanish ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	42·69	40·15
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	35·43	43 04
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	39·83	42·91
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	39·59	40·40
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	33·40	40 23
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·09	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·93	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	51·49	42·15
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	45·53	41·63
		Barh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	41·08	42·20
		Bankram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	35·83	39·27
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·28	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	35·21	?
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	47·82	40·43
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	41·67	43·73
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 22	39·48	43·26
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·82	?
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	45 06	42·37
		Kalgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	38·34	43·28
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	?
	Sonthal Pergunnahs.	Rajmahal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	39·90	39·31
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	49·04	47·73
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	73·59	55·55
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	56·77	53·55
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	40·40	51·06
		Mohagama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	44·21	40·28
		Nunihat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·41	?
Chutia Nagpur.	Hazaribagh ...	Peonamba ... (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·87	?
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	33·90	47·78
		Sentagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	49·10	47·43
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	36·24	40·92
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil		48·10
		Barka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 01	43·00	62 85
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·36	?
		Keragdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·04	?
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39 35	?
	Lohardugga ...	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	45·24	51·46
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	53 01	52·43
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	34·16	43·61
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
		Hossenabad..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·40	?
	Singbhoom ..	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28 77	?
		Chakradhar-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	45·76	52·07
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40 80	?
		Bakaragura...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	N	?	58·70	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	N	?	53·80	?
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	45·55	-69·40
		Kapasmath-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	53·19	45·49
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·43	?
														58·56	?

Explanation.—Indicates that no rain has fallen If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 11th February* 1890.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 7TH FEBRUARY 1890.

During the previous week two disturbances had passed through the province, giving fairly general rain to most of the stations in the plains, while along the line of hills to the north and north-west of the province snow had fallen. A cold wave of northerly winds had thus set in over the province, and the general conditions were those of the north-east monsoon or cold weather in a pronounced form. The effects of the disturbances above noted have continued during the week under review, and normal cold-weather conditions have obtained almost throughout this period. Skies have consequently been almost cloudless, temperature and humidity have been low, pressure has been high, and no rain has fallen Just towards the close of the week, however, the cool northerly current was beginning to fall off in force, and light southerly winds and calms were reported at some of the coast stations, so that the tendency at the end of the week was for temperature and humidity to rise; but on the whole the conditions for the week were typical for the cold weather.

Pressure.—The pressure changes during the week have not been of any particular importance. There was a slight but distinct rise on the 1st February, which continued on the 2nd, but on the 3rd a slight fall set in, which became more rapid on the 4th. though it had ceased on the 5th, when pressure commenced to rise again, the rise continuing on the 6th, while on the 7th pressure was falling again These slight oscillations are, however, only characteristic of fine settled weather. For the whole week the mean pressure has been in excess of the normal by about 0 04 inch to 0 07 inch, the excess being fairly equally distributed, though on the whole it has been largest in North Behar

Temperature—Has on the whole been generally rising slowly during the week, but there have been the usual oscillations from day to day Taking the general mean temperature of the whole province into consideration, there has been an increase of about 1° to 2° above the temperature of the previous week When compared with the normal, however, the temperatures recorded during the past week have been distinctly low, and the defects vary in the different districts from about half a degree up to two and-a-half degrees; the mean defect in temperature of the whole province for the week equalling 1·6 degrees.

The actual temperatures during the week, the range from day to night, and their variation from the normal values are best seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with the normal values. From these figures it will be seen that the night temperatures have generally been in much larger defect than those of the day, and that the mean minimum temperatures of the week have been decidedly low.

The lowest temperature recorded during the week was 41 9° at Motihari :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 7th February 1890.

	Normal mean maximum temperature for the week ending 7th February.	Actual mean maximum temperature for the week ending 7th February 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 7th February.	Actual mean minimum temperature for the week ending 7th February 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 7th February	Actual mean daily temperature for the week ending 7th February 1890.	Variation of actual mean from the normal.
Cuttack	87 7	85 3	−2 4	61 4	60 3	− 1 1	74 5	72 8	− 1 7
Calcutta	79 2	77 3	−1·9	56 5	53·2	−3 3	67 8	65 3	−2 5
Dacca	80 0	78 1	−1 9	54 9	50 7	−4 2	67 4	64 4	−3 0
Burdwan	80 9	79 7	−1 2	54 9	50 6	−4 3	67·9	65 2	−2·7
Patna	75 1	75 1	0	49 7	46 6	−3 1	62 4	60 8	−1 6
Gya	78 8	77 6	−1·2	53 1	51 8	−1 3	66 0	64 7	−1 3
Purneah	76 2	74 8	−1 4	48 2	43 6	−4 6	62 2	59 2	−3 0
Hazaribagh	75 3	75 7	+0 4	51 0	49 8	−1 2	63 2	62 7	−0 5
Darjeeling	42 6	53 3?	+10 7?	31 3	34 8	+3 5	37 0	44 1?	+7 1?

Rainfall—Has been entirely absent from the province throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 7th of February 1890 :—

Meteorological Divisions.	Temperature						Rainfall									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average	Normal average.
Orissa	87·9	48 4	81·1	58·6	69 9	- 2·6	Nil	0 24	—0 24	0·0	0 4	—0·4	Nil	0 24	62 10	58·70
South-West Bengal ...	84 3	44 9	79·0	51·8	65 4	—2·1	Nil	0·39	—0·39	0 0	0 6	—0·6	Nil	0·39	53 81	52 36
East Bengal	81·1	47·0	77·4	50·0	64·0	—2·3	Nil	0·28	—0·28	0 0	0·6	—0·6	Nil	0 28	76 56	74 56
North Bengal*	78·6	42·7	77·1	46·6	61 9	—0·7	Nil	0·12	—0 12	0·0	0 4	—0·4	Nil	0·12	73 54	70 86
North Behar	77·4	41·9	74·5	43·6	59·1	—2·0	Nil	0·11	—0·11	0·0	0 4	—0 4	Nil	0·11	57·89	48 90
South Behar	79·8	43·6	76·7	47·2	61·9	—0·9	Nil	0·17	—0·17	0·0	0·5	—0·5	Nil	0·17	44·16	44·06
Chutia Nagpur	79·5°	45·6°	76·1°	49 6°	62 8°	—0·4°	Nil	0 23	—0 23	0·0	0·6	—0·6	Nil	0·23	43 08	49·89

* Chupra, Chyebassa and Jalpigoree not included.

Meteorological Office, Bengal;
The 11th February 1890.

A Pedler,
Meteorological Reporter to the Govt. of Bengal.

[REGISTERED No 29]

No. 8 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, FEBRUARY 19, 1890.

OFFICIAL PAPERS.

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ARRANGEMENTS TO BE ADOPTED FOR THE WORKING OF GOODS TRAFFIC INTO AND OUT OF CALCUTTA AFTER THE COMPLETION OF THE KIDDERPORE DOCKS.

No. 461 Marine.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Dated Calcutta, the 18th February 1890.

RESOLUTION.

READ—

A letter No. 0190R.T., dated the 4th February 1890, from the Government of India, suggesting that a Committee should be appointed to discuss the various questions which will arise in connection with the working of traffic into and out of Calcutta after the completion of the Kidderpore Docks.

RESOLUTION.—On the completion of the Kidderpore Docks the existing arrangements for working both the export and the import goods traffic will have to be largely modified, and, with the concurrence of the Government of India, His Honour the Lieutenant-Governor is pleased to appoint the gentlemen named below to form a Committee to consider and advise on the arrangements that should be adopted on the opening of the Docks:—

The Hon'ble Mr. F. M. Halliday ...	*President.*
Colonel L. Conway-Gordon, R.E., C.I.E. ...	Representing the Government of India.
Mr. W. B. Bestie ...	Representing the Government of Bengal.
The Hon'ble Sir Alexander Wilson ...	Representing the Commissioners for making Improvements in the Port of Calcutta.
Mr. G. H. Simmons	
Mr. J. L. Mackay	Representing the Bengal Chamber of Commerce.
Mr. W. W. Petrie	
Mr. D. W. Campbell, C.I.E. ...	Representing the East Indian Railway Company.
Lieutenant-Colonel G. F. O. Boughey, R.E.	Representing the Eastern Bengal State Railway.

The Committee will consider all questions that require settlement in connection with—

(*a*) the shipment and discharge of the cargoes of the vessels frequenting the port of Calcutta;

(*b*) the transport of goods, whether rail-borne, water-borne, or partly rail-borne and partly water-borne, to and from vessels lying at any place in the port of Calcutta.

The dates for the meetings of the Committee will be fixed by the President, and the Committee's Report will be forwarded by him to the Secretary to the Government of Bengal, in the Public Works Department.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Hon'ble Mr. Halliday and to each Member of the Committee.

Ordered also that a copy of this Resolution be forwarded to the Government of India with reference to the letter from that Government cited above.

By order of the Lieutenant-Governor of Bengal,

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal.

REPORT ON THE STATE OF THE SALT MARKET FOR THE THIRD QUARTER OF 1889-90.

No. 89B, dated Calcutta, the 6th February 1890.

From—K. G. GUPTA, Esq., Offg. Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

SALT.

THE HON'BLE F. B. PEACOCK.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the third quarter of 1889-90, comprising the months of October, November, and December 1889.

2. The quantity of salt of every description cleared during the quarter under report amounted to 24,35,503 maunds 14 seers 3 chittacks, against 23,98,512 maunds 30 seers 14 chittacks in the previous quarter, and 24,20,274 maunds 38 seers 9 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 57,16,963-2, against Rs. 55,10,452-14 in the previous quarter, and Rs. 56,74,386 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I :—

TABLE I.

	Cuttack.	Pooree.	Balasore.
	MDS. S. T.	MDS. S. T.	MDS. S. T.
Balance at close of the last quarter	232 0 0	1,86,373 0 0	1,940 0 0
Manufactured or added during the quarter	.....	.....	.....
Total ...	232 0 0	1,86,373 0 0	1,940 0 0
Sales during the quarter	.....	15,509 0 0	120 0 0
Wastage	232 0 0	.....	.....
Total ...	232 0 0	15,509 0 0	120 0 0
Balance at close of the quarter	.....	1,70,864 0 0	1,820 0 0

4. The total sale of excise salt during the quarter under review amounted to 15,629 maunds, against 12,101 maunds in the previous quarter, and 34,327 maunds 33 seers 60 tolahs in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years :—

TABLE II.

	1887-88.		1888-89.		1889-90.	
	Third quarter.		Third quarter.		Third quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	15,07,045	18,16,109	19,02,487	17,23,633	10,20,864	16,54,525
Foreign kurkutch	6,56,945	5,62,376	5,65,800	4,37,471	10,95,948	5,63,183
Indian ditto	1,54,951	1,57,000	1,50,050	1,31,960	5,640	1,30,002
Total ...	24,09,541	25,35,485	27,08,737	22,93,064	21,28,452	23,47,710

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1887-88.		1888-89.		1889-90.	
	Third quarter.		Third quarter.		Third quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	1,54,951	1,57,000	1,48,050	1,29,960	.....	1,24,362
Coconada	...	.....	2,000	2,000	5,000	5,000
Madras	....	.....	.. ..	.....	600	600
Cuddalore	.	.....	.....		40	40
Total ...	1,54,951	1,57,000	1,50,050	1,31,960	5,640	1,30,002

7. Table IV shews the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	Third quarter of 1888-89.	Fourth quarter of 1888-89.	First quarter of 1889-90.	Second quarter of 1889-90.	Third quarter of 1889-90.
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government golahs	15,29,709	16,64,397	22,40,063	23,55,265	17,41,64
Chittagong ditto do.	1,31,640	2,32,656	1,53,597	1,42,880	67,587
Total ...	16,61,349	18,97,053	23,93,660	24,98,145	18,09,427

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below :—

TABLE V.

PERIOD.	*Vid* Balikhali.	*Vid* Sankrail.	*Vid* Gewakhally.	*Vid* Kidderpore	*Vid* Ballaghatta.	*Vid* Ruthtollah Ghát.	By the East Indian Railway.	By the Eastern Bengal and South-Eastern Railways or *vid* Chitpore.
	Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Third quarter of 1887-88 ...	2,78,480	1,51,959	1,03,202	76,700	5,20,644	19,095	9,18,381	1,90,910
Ditto of 1888-89 ...	2,42,907	1,50,799	88,024	81,153	5,90,405	3,504	8,01,217	2,00,864
Ditto of 1889-90 ...	2,45,554	1,18,513	75,155	63,595	5,03,902	2,119	5,78,548	2,13,578

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 2,126 maunds 10 seers, as noted in the margin, against 1,518 maunds 30 seers in the previous quarter, and 8,808 maunds 20 seers in the corresponding quarter of the previous year.

	Mds.	s.
October		
November	1,518	30
December	607	20
Total ...	2,126	10

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow :—

	Tons.
October	12,890
November	22,770
December	22,570
Total ...	58,230

No shipments were reported during the quarter under review for the port of Chittagong.

11. Table VI shews the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 15th October		Prices on the 31st October		Prices on the 15th November		Prices on the 30th November		Prices on the 15th December		Prices on the 31st December	
	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah	86	116	88	105	91	103	98	100	95	105	99	104
French kurkutch	62	.	60	.	60	.	60	.	60	...	60	...
Jedda ditto	60	58	59	58	60	57	60	55	60	54	60	53
Bombay ditto	77	52	90	52	92	60	88	64	90	65	90	64
Italian ditto	62	..	60	...	60		60	...	60	...	60	.
Muscat ditto	58	59	56	59	58	56	57	56	58	53	58	52
Rock	55	...	55	...	56	118	56	...	75	150	75	150

12. The following table shows the quantity of sea-imported salt admitted into bond, and cleared from bond and shipboard, at Chittagong and Naraingunge during the quarter under review and the corresponding quarter of 1888-89:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		Third quarter of 1888-89.	Third quarter of 1889-90.	Third quarter of 1888-89.	Third quarter of 1889-90.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong	Liverpool	1,20,669 0 0	.. ..	55,827 16 0	62,814 0 0
	Madras	. ..	.....	1 2 0	0 8 0
	Muscat	.....	.....	0 16 0	.....
	American	.....	... ..	.....	0 20 0
Naraingunge	Liverpool	.....	. ..	7,920 0 0	13,365 0 0
	Total ...	1,20,669 0 0	.....	93,748 34 0	76,179 28 0

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 15th February, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	Burdwan Div.		
1	Burdwan Feb. 15, '90	Nil	Weather—growing warm. In Raniganga *rabbi* expected to give an 18-anna crop, and elsewhere it will be from 10 to 14 annas. There is more *rabbi* in Raniganga than elsewhere, so the district crop may be 15 or 16 annas. Prices of common rice:— Srs. Burdwan ... ... 18; Culna ... . 16; Cutwa ... ... 16½; Raniganga .. .. 19 } per rupee
2	Bankoora ,, 15, '90	Nil	Weather seasonable. *Rabbi* crops doing well. Pressing of sugarcane continues. Common rice 20½ seers per rupee at Bishenpore and 20 seers at Sudder.
3	Birbhum ,, 15, '90	Nil	Weather—growing warm. Prospects of crops continue excellent. Sugarcane very flourishing. Prices of rice all along the southern part of the district range from 18 to 20 seers per rupee, and in the central and northern portions 16 to 17 seers per rupee.
4	Midnapur ,, 15, '90	Nil	Weather—seasonable. General prospects good. *Rabbi* and indigo doing well in the Sudder subdivision. Prices of rice:— Srs. Sudder ... ... 18; Contai ... ... 24; Tamluk .. .. 18; Ghatal ... ... 20 } per rupee.
5	Hooghly ,, 15, '90	Nil	Weather—seasonable. Outturn of *rabbi* very hopeful. Outturn of sugarcane good, especially in Jehanabad. Prices of common rice:— Srs. Sudder ... ... 12½; Serampore .. .. 14; Jehanabad ... ... 17½ } per rupee.
	Howrah ,, 15, '90	Nil	Weather—getting warmer. Prospects of *rabbi* crops continue good. Prices of common rice:— Srs. Howrah ... ... 12½; Uluberia ... ... 16 } per rupee.
	Central Districts.		
	Presidency Div.		
6	24-Perghs. Feb. 15, '90	Nil	Weather—seasonable. Good *aman* crop has been harvested. Prospects of winter crops also good. *Boro* rice is being cultivated in some parts. Price of common rice 16 seers per rupee.
7	Nuddea ,, 15, '90	Nil	Weather—seasonable. Prospects of crops on the ground favourable. Cultivation of lands for *aus* going on.
8	Khoolna ,, 15, '90	Nil	Weather—seasonable. Reaping of *aman* completed; outturn good. State of *boro* crop good and of *rabbi* fair.
9	Jessore ,, 15, '90	Nil	Weather—getting warm. Harvesting of *aman* paddy over; outturn 14 annas in Magura and 16 annas in Narail. Linseed and other spring crops prospering. Prices of common rice 14 to 16 seers per rupee.
10	Moorshedabad ,, 15, '90	Nil	Weather—clear and cold. Prospect of *rabbi* continues favourable.
	Rajshahye Div.		
11	Dinagepur ,, 15, '90	Nil	Weather—days getting warmer, though nights still cool. Prospects of *rabbi* crops good. *Aman* harvesting nearly over. Sugarcane being pressed. Land being prepared for *bhadoi*.
12	Rajshahye ,, 15, '90	Nil	Weather—seasonable Prospects of *rabbi* crops good generally. Ganja manufacture commenced in Nowgong. Rice sells at 17 seers 3 chittacks per rupee.
13	Rungpur ,, 15, '90	Nil	Weather—getting warm. Prospects of tobacco and wheat continue good. Mustard is being gathered. Ploughing for *aus* and jute going on vigorously.
14	Bogra ,, 15, '90	Nil	Weather—nights chilly, but days getting warmer. Reaping of *aman* finished. Mustard, *khesari*, gram, &c., being reaped. Common rice selling at 22 seers per rupee.
15	Pubna ,, 15, '90	Nil	Weather—seasonable. *Aman* outturn about 14 annas in Serajgunge and 12 annas in Sudder. Mustard and tobacco expected to be 12 annas crops Sugarcane deficient. Prices of food-grains slightly lower.
16	Darjeeling ,, 15, '90	0·01	Weather—getting daily warmer. Wheat and barley progressing favourably. In Terai land is being prepared for *bhadoi* crops. Prices of common rice:— Srs. Darjeeling ... ... 12; Kurseong ... ... 13; Silliguri ... . 19 } per rupee.
17	Jalpigoree ,, 15, '90	Nil	Weather—seasonable. *Haimanti* paddy all cut. Condition of tobacco promising except in Salbari thanna. No change in prices.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Feb. 15, '90	Nil	Weather—seasonable. Winter crops doing well. Sugarcane being pressed. Mustard and pulses being gathered. Fodder is available. No special change in the prices of food-grains Common rice sold at from 13 to 14½ seers per rupee.
Dacca Divn. 19	Furreedpur „ 15, '90	Nil	Weather—seasonable. Cultivation and sowing of *boro*, sugarcane and jute in progress. State and prospects of wheat, barley, linseed, and other standing *rabbi* crops continue fair. Coarse rice selling at 15 seers per rupee at Madaripur and Sudder, and at 16 seers per rupee at Goalundo.
Dacca Divn. 20	Backergunge „ 15, '90	Nil	Weather—seasonable. Prospects of *rabbi* crops good. Rain wanted. Common new rice sells at 15 seers per rupee.
Dacca Divn. 21	Mymensingh „ 15, '90	Nil	Weather—seasonable; foggy on the morning of the 14th. Transplanting of *boro* paddy nearly over. Mustard being gathered. Standing crops in good condition. Price of coarse rice 14 seers per rupee.
Chittagong Divn. 22	Chittagong „ 15, '90	Nil	Weather—seasonable. The state of all miscellaneous crops is good.
Chittagong Divn. 23	Noakholly „ 15, '90	Nil	Weather—seasonable. *Rabbi* crops doing well. Ploughing of land for *aus* crop commenced.
Chittagong Divn. 24	Tipperah „ 15, '90	Nil	Weather—close and cloudy. Transplanting of *boro* paddy completed. Winter crops prospering.
Chittagong Divn. 25	Chittagong Hill Tracts. „ 14, '90	Nil	Weather—cold and foggy in the morning throughout the week. Gathering of mustard continues. Tobacco, chillies, and other standing crops progressing.
	Hill Tipperah Feb. 15, '90	Nil	Weather—getting warm. Sugarcane and tobacco still being cut *Boro* paddy doing well in low places. *Jums* being cleared in the hills.
BEHAR.			
Patna Divn. 26	Patna „ 15, '90	Nil	Weather—cool. Harvesting of mustard, pea, gram, and *masur* going on. Other spring crops ripening. Opium has commenced to be collected in some places. Prospects favourable. Prices of food-grains almost stationary.
Patna Divn. 27	Gya „ 15, '90	Nil	Weather—seasonable Poppy plants in flower, and opium being extracted in places. *Rabbi* good. Mustard and *masoor* being reaped.
Patna Divn. 28	Shahabad „ 15, '90	Nil	Weather—still cool, but getting warmer. Prospects of *rabbi* crops fair Poppy crop promising. Prices stationary.
Patna Divn. 29	Durbhunga „ 15, '90	Nil	Weather—days getting warm. Wheat and barley approaching maturity, and prospects continue favourable. Mustard is being harvested and expected to yield a good outturn. Poppy blossoming. Prices almost stationary.
Patna Divn. 30	Mozufferpur „ 15, '90	Nil	Weather—seasonable; getting warmer. Mustard being cut. Prospects of wheat and other *rabbi* crops good. Poppy in flower, and prospects very favourable.
Patna Divn. 31	Sarun „ 15, '90	Nil	Weather—seasonable. *Rabbi*, including wheat, continues to look well, and gives prospect of a 16-anna crop. Prospects of poppy also excellent.
Patna Divn. 32	Champarun „ 15, '90	Nil	Weather—bright and getting dry with west wind. Prospects of all crops on the ground excellent. *Rabbi*, including wheat, has begun to ripen. Poppy is in flowers. Prices almost stationary.
Rajmahal Divn. 33	Monghyr „ 15, '90	Nil	Weather—seasonable. West wind prevailing. Standing crops doing well. Mustard and pulses being reaped.
Rajmahal Divn. 34	Bhagulpur „ 15, '90	Nil	Weather—seasonable Prospects of crops promising, but rain wanted for *rabbi*. Outturn of mustard in the north of the district is said to have been below 12 annas.
Rajmahal Divn. 35	Purneah „ 15, '90	Nil	Weather—fine and rather warm. Mustard harvested with good outturn. All *rabbi* crops doing well. Ploughing going on.
Rajmahal Divn. 36	Maldah „ 15, '90	Nil	Weather—getting warmer. Gathering of *kalai* and mustard almost completed. Transplanting of *boro* paddy continues. Prospects of *rabbi* crops continue favourable, but a shower of rain would much improve them. Common rice selling at an average of 17½ seers per rupee.
Rajmahal Divn. 37	Sonthal Perghs. „ 15, '90	Nil	Weather—dry, getting hot in the day. Prospects of crops good, but rain wanted.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack ...	...	Report not received.
	39	Pooree „ 14, '90	Nil	Weather—seasonable. Threshing of the winter crop (late *sarad*) still continues. Mungo crop so far promising. *Dalua* and *mung* doing well. Prices of rice stationary.
	40	Balasore „ 15, '90	Nil	Weather—seasonable. *Dalua* rice is being transplanted, and sugarcane being cut.
CHOTA NAGPORE.				
South-West Frontier Agency.				
Chota Nagpore Divn.	41	Hazaribagh Feb. 15, '90	Nil	Weather—seasonable. Prospects generally good, but in Chowparun a full crop is not expected.
	42	Lohardugga „ 15, '90	Nil	Weather—warm; cold and chilly mornings. Prospects of *rubbi* continue good at head-quarters. Much damage has been done to this crop in the subdivision by frost.
	43	Singbhoom „ 15, '90	Nil	Weather—seasonable. Prospects of crops favourable. Outturn of sugarcane, mustard, and *surgooja* from 12 to 16 annas. Prices stationary.
	44	Manbhoom „ 15, '90	Nil	Weather—warmer. Spring crops doing well.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 18th February, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of November, 1889.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS.							FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.†	Linseed.	Mustard seed.				Refined.	Unrefined.	Unmanufactured.	Manufactured.
	Rice.	Paddy.	Total (in rice).															
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Burdwan	98,304	17,274	1,09,160	31	1,488	.....	1,10,681	.....	15,200	144	4,051	1,295	5	87	.....	.....	...	6
Beerbhoom... ...	92,054	1,404	93,988	99	.....	80	93,167	.....	6,510	.....	394	.....	75	489	.....	.....	...	.....
Midnapore	89,211	5,983	1,04,812	.....	.....	.....	1,04,812	6,576	1,550	1,804	... ..	.....	.....	162	920	... ...	1	.....
Hooghly	41,485	13,812	49,548	823	7,358	.....	57,729	86,919	77,482	3,062	13,910	.....	433	9	46	3,606	5,13[illegible]	760
24-Perguunahs ...	47,332	5,593	52,752	... ..	6	.....	52,759	1,43,815	251,045	.....	.....	.....	1,743	.....	1,928	16,145	474	404
Nuddea	5,349	5	5,351	9,350	66,109	1,151	71,942	93,411	2,025	7,385	20	.....	135	42	.....	2	1,989	.....
Khulna	225	9,275	6,021	143	175	.....	6,339	25,125	.....	.....	.....	.....	.....	.....	.....	4,075	..	... ..
Jessore	383	6,950	4,727	.....	1,841	.....	6,568	93,941	420	202	17	.....	.....	.....	13	6,155	469	.....
Moorshedabad ...	430	1	491	9,772	9,488	350	20,071	8,252	... ..	1,698	2,553	.....	3	103	.....	.....	...	3
Dinagepore	341	.....	341	.....	.....	.....	341	14,282	176,925	.....	.....	.....	.....	.....	.....	.....	...	.....
Rajshahye	42	.....	43	1,133	5,315	172	6,661	52,009	.....	2,055	295	.....	.....	244	.....	.....	...	... ..
Rungpore	.....	.....	.....	2,576	.....	.....	2,576	2,06,765	59,360	.....	490	.....	146	... ..	.....	.....	5,233	.....
Bogra	1,980	.....	1,980	.....	.....	.....	1,980	12,519	... ..	.....	.....	.....	.....	... ..	.....	.....	...	.....
Pubna	.....	.....	.....	110	237	.....	347	4,24,729	496,733	543	2,317	.....	.....	.....	.....	.....	1,344	.....
Darjeeling	.....	.....	.....	.. ..	.....	.....	.....	16,899	90,125	.....	.....	11,051	.....	.....	.....	.....	...	.....
Julpigoree	.....	.....	.....	.....	.....	.....	.....	88,314	194,740	.....	... .	25,277	.....	.....	.....	.....	419	.....
Dacca	108	.....	108	.....	225	.....	333	3,66,590	490	... ..	725	.....	1,859	.....	.....	.....	...	.....
Furreedpore ...	868	.....	868	.....	1,597	.....	2,465	4,18,165	280	.....	163	171	10	10	.....	.....	...	.....
Backergunge ...	65,131	550	65,675	.....	27	.....	65,702	6,403	.....	.....	599	.....	.....	.....	.....	.....	...	.....
Mymensingh ...	.....	.....	.....	.....	350	.....	350	1,13,311	.....	.....	335	.....	.....	.....	.....	.....	...	.....
Tipperah ...	750	.....	750	.....	.....	.....	750	4,525	.....	... ..	.....	.....	.....	.....	.....	.....	...	.....
Chittagong ...	300	.....	300	.....	.....	.....	300	852	.....	.....	.....	3,141	1,021	.....	.....	.....	...	.....
Noukholly ...	22,806	.....	22,806	.....	.....	.....	22,806	3,625	.....	.....	.....	.....	1,025	.....	.....	.....	...	.....
Total of Bengal ...	5,77,189	66,035	5,18,461	24,038	84,216	1,764	6,28,479	21,88,217	1,374,117	16,953	30,841	39,935	7,055	1,006	2,907	30,073	18,068	1,173
BEHAR.																		
Patna	183	.....	183	1,893	28,534	3,507	34,117	186	1,300	64,944	23,500	.....	5	8	.....	3,280	277	1,[illegible]
Gya	.....	.....	.....	804	396	.....	902	... ..	2,135	.....	.....	.....	... ..	4	.....	6,646	...	13[illegible]
Shahabad	.....	.....	.....	4,013	18,439	.....	23,352	.....	980	3,484	303	.....	.....	.....	.....	9,178	...	6
Mozufferpore ...	.....	.....	.....	557	448	3,743	4,748	.....	35	572	418	.....	... ..	.....	.....	37	80	... ..
Durbhunga ...	.....	.....	.....	1,000	2,307	.....	3,307	.....	1,805	37,798	17,770	6	.....	.....	.....	.....	137	16
Sarun	.....	.....	.....	.....	2,473	970	3,443	.....	525	14,219	4,416	1	.....	.....	.....	.....	...	.....
Chumparun ...	.....	.....	.....	.....	.....	.....	.....	20	.....	8,982	6,050	3	.....	.....	.....	.....	13	.....
Monghyr	10	.....	10	9,366	18,837	4	28,027	13	1,470	819	4,276	.....	9	.....	.....	.....	13	4
Bhagulpore ...	6,805	.....	6,805	21,804	4,943	1,778	35,329	.....	.....	4,793	30,717	.....	.....	66	.....	.....	27	... ..
Purneah	497	.....	497	4,186	4,430	7	9,120	5,171	7,800	5,055	24,602	.....	.....	.....	.....	.....	969	.....
Maldah	.....	.....	.....	13,804	6,029	989	20,822	9,181	.....	922	839	.....	.....	.....	.....	.....	...	.....
Sonthal Purgunnahs.	94	.....	94	16,344	2,376	2,184	21,998	2,743	595	3,578	32,470	.....	.....	79	.....	.....	...	.....
Total of Behar ...	7,589	.....	7,589	74,861	89,611	13,181	1,85,232	18,263	16,435	1,49,266	1,44,361	10	14	159	.....	19,100	1,467	2,048
ORISSA.																		
Cuttack	690	.....	690	.....	.....	.....	690	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Balasore	24,888	5,501	29,326	.....	1,745	.....	30,071	7,958	325	1,604	989	.....	.....	4	.....	.....	212	.....
Total of Orissa ...	25,578	5,501	29,016	.....	1,745	.....	30,761	7,958	325	1,604	989	.....	.....	4	.....	.....	212	.....
CHOTA NAGPORE.																		
Hazaribagh ...	.....	.....	.....	.....	185	.....	185	.....	525	.....	.....	329	.....	.....	.....	.....	...	.....
Manbhoom ...	45	.....	45	.....	19	.....	64	.....	1,330	.....	169	.....	.....	.....	.....	.....	...	.....
Total of Chota Nagpore.	45	.....	45	.....	204	.....	249	.....	1,855	.....	169	329	.....	.....	.....	.....	...	.....
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	5,10,401	71,536	5,55,111	98,899	1,75,776	14,945	8,44,731	22,14,438	1,392,732	1,67,823	1,76,360	40,273	7,069	1,259	2,307	49,182	16,747	3,215
OTHER PROVINCES.																		
Assam	5	.....	5	.....	11	.....	16	3,751	900	.....	.....	23,760	1,09,938	.....	619	.....	.....	.....
North-Western Provinces and Oudh.	313	.....	313	62,993	45,928	6,883	1,16,117	.....	420	40,075	6,230	560	50,897	1	2,647	440	1	13
Punjab	2	.....	2	42,826	10,642	3,081	56,251	.....	.....	.....	426	347	.....	.....	.....	.....	...	.....
Central Provinces	.....	.....	.....	2,901	1,021	.....	3,922	.....	.....	1,608	.....	.....	.....	.....	.....	.....	...	.....
Rajputana and Central India.	.....	.....	.....	.....	.....	8	8	.....	.....	672	.....	.....	11	.....	.....	.....	...	.....
Bombay	.....	.....	.....	.....	.....	.....	.....	.....	4,000	.....	.....	.....	4,881	.....	.....	.....	...	3
Madras	.....	.....	.....	.....	8,630	.....	8,630	.....	... ..	.....	.....	39	607	.....	10	.....	216	165
Burmah	.....	.....	.....	.....	1,563	.....	1,563	.....	7,200	.....	.....	2	342	1	...	6	...	19
Other places ...	12	.....	12	.....	42	.....	54	.....	12,150	.....	.....	.....	.....	.....	27,372	.....	84	410
Grand Total of Imports in 1889	5,10,733	71,536	5,55,443	2,06,709	2,43,613	24,917	10,30,682	22 25,189	1,417,402	2,16,178	2,06,766	1,61,156	72,807	1,890	32,336	49,630	17,048	3,826
Grand Total of Imports in Nov. 1888	10,22,743	1,28,036	11,02,766	2,70,981	3,95,050	41,324	18,16,123	24,54,873	2,025,270	5,58,672	92,049	1,45,630	58,740	3,042	13,323	79,092	12,392	18,744

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of November, 1889, was as follows :—

EXPORTED FROM CALCUTTA—																		
To Indian ports, viz.—																		
Bombay	1,19,963	30	1,19,981	2,781	60	.....	1,22,822	2,436	1,542,950	.....	35,167	450	535	.....	485	.....	183	.....
Ports in	.....	290	187	235	16,983	150	16,854	.....	328,350	.....	.....	.....	.....	174	10	.....	96	.....
... ...	63,565	... .	63,565	.....	1,448	.....	65,013	6,330	257,650	.....	.....	3	.....	9	.....	... ..	...	7
... ...	4,534	... ..	4,534	245	12,153	6,770	23,702	4	216,000	.....	20	91	120	5	803	207	...	2
... Indian ...	1,501	... ..	1,501	.....	1,607	.....	3,108	.....	173,500	.....	.....	1	.....	.....	1,532	378	1,999	303
Pondicherry and ...	.....	.....	.....	120	.....	.....	129	.....	130,000	.....	.....	.....	.....	.....	... ..	.....	1,123	131
	99	.....	99	.....	.....	.....	99	.....	43,450	.....	.....	.....	.....	.....	.....	.....	...	.....
Total of ... portal trade ...	1,89,662	320	1,89,907	3,390	31,359	6,920	2,31,527	8,760	3,690,900	.....	35,187	584	655	188	2,502	585	3,399	443
To Foreign ports— United Kingdom	36,526	...	36,526	58,444	19,842	.....	1,44,812	2,14,727	783,100	1,63,567	1,47,229	1,32,127	2,700	200	.....	.....	1	3
Other Foreign ports ...	3,46,232	6,[illegible]	52,496	1,342	38,596	4,639	3,97,073	3,80,742	4,417,100	66,908	73,009	4,611	32,720	1,304	54	.....	338	183
Total of Foreign trade	3,84,758	6,[illegible]	3,[illegible]	59,786	58,438	4,639	5,41,885	6,04,469	5,170,200	2,30,475	2,19,238	1,36,738	35,420	1,504	54	.....	339	186
Grand Total of Exports in 1889	5,74,420	7,151	5,79,[illegible]	63,176	89,788	11,559	7,73,412	6,13,229	7,861,100	2,30,475	2,54,425	1,67,322	36,075	1,692	2,556	585	3,739	579
Grand Total of Exports in Nov. ... 1888	6,47,714	1,748	6,49,306	90,457	45,403	20,005	9,05,271	22,59,774	8,690,974	3,38,821	185	1,80,376	7,153	1,849	2,956	736	14,190	608

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of November, 1889.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	2,41,990	41,043	43,486	92,063	5,980	7,64,315	295,167	31,475	60,231		3 980	161	3,631	26,631	7,429	2,069
,, river steamers	33,529	750	8,860	3,310	.	2,01,128	..	24,839	14,364	1,65,026	1,750	72	...	.	476	...
,, rail { East Indian Railway	1,84,194	23,425	1,53,139	1,20,995	16,751	24,700	33,315	1,55,753	25 354	2,551	60,001	745	525	19,535	395	241
,, rail { Eastern Bengal State Railway.	2,715	.....	1,254	14,363	186	11,19,218	1,028,125	1,008	1,289	40,507	209	898	.....	2,046	8,199	.....
,, road	25 564	1,579	.....	... ..	.....	1,01,215	37,300	...	.....	... ..	181	.....	798	1,498	37	923
,, sea	22,472	4,746	.....	11,980	..	8,475	23,575	1,604	508	2,182	6,626	5	27,341	8	5 2	592
Grand total of Imports in November ... { 1889 ..	5,10,733	71,536	2,06,709	2,41,613	24,917	22,23,189	1,417,402	2,16,178	2,06,706	1,51,155	72,807	1,890	32,336	49,640	17,048	3,825
1888	10,22,743	1,28,036	2,76,983	3,95,050	41,324	24,54,873	2,025,370	5,58,673	92,069	1,45,650	58,749	3,042	13,323	79,092	12,393	18,744

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of November, 1889.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ..	3,65,096	8,280	403	1,071	38 106	84,870
Beerbhoom ...	1,68,147	1,210	64	787	13,730	105,665
Midnapore .	2,70,309	..	2,451	16	15,335	19,736
Hooghly ...	1,15,188	8,795	498	179	2,105	58,183
24-Pergunnahs .	1,81,830	3,068	211	.....	11,833	7,385
Nuddea ...	3,59,015	.....	2,298	.....	28,700	20,759
Khulna	90,648	.....	16	.....	5,702	..
Jessore .	1,15,021	... ..	846	...	37,316	2,150
Moorshedabad	1,21,416	.....	74	13	16,910	7,485
Dinagupore ...	1,28,142	.....	208	... ..	10, 90	4,120
Rajshahye ...	2,22,579	.....	97	.. ...	17,315	4,150
Rungpore ..	6,05,241	... ..	138	...	16,346	420
Bogra ..	2,04,709	... .	50	.....	7,413	17,710
Pubna ...	2,93,958	.....	282	... ..	31,980	965
Darjeeling ..	91,558	.....	89	.....	5,726	420
Julpigoree ...	2,13,066	.....	76	.. ...	8,460	245
Dacca ...	10,05,029	.....	1,231	294	40,481	9,465
Furreedpore ...	3,66,981	.....	904	.....	37,212	3,290
Backergunge ...	3,03,933	.....	1,173	...	33,900	175
Mymensingh ...	2,07,315	.....	7	.....	31,442	.....
Tipperah ...	.....	.....	.....	.....	7,190	.....
Chittagong ...	87,745	.....	137	.....	200	96,400
Noakholly ...	200	.....	.....	.....	3,425	.....
Total of Bengal ..	54,67,423	21,323	11,885	2,360	4,29,000	442,575
BEHAR.						
Patna ...	2,47,727	440	123	178	31,830	63,060
Gya ...	1,92,024	1,320	52	997	15,016	10,555
Shahabad ...	3,13,866	9,350	59	1,111	32,553	..
Mosufferpore ...	1,08,549	..	2	0	10,175	1,140
Durbhunga ...	5,47,974	1,540	20	1,163	54,021	34,806
Sarun ...	3,33,081	.	8	36	22,031	34,335
Chumparun ...	4,18,068	.....	16	112	24,566	14, 80
Monghyr ...	1,91,268	... ..	2	453	10,780	24,080
Bhagulpore ...	3,53, 67	1,650	62	546	38,767	58,065
Purneah ...	2,14,363	2,200	115	760	17,616	19,410
Maldah ...	...	.. ...	.....	.. ...	10,744	6,650
Sonthal Pergunnahs	3,52,674	330	309	1,075	18,617	61,145
Total of Behar ...	32,72,961	16,830	741	6,397	2,83,760	356,315
ORISSA.						
Cuttack ...	37,460	.....	1,556	.....	2,096	14,350
Balasore ...	65,075	.....	3,835	.....	14,957	64,250
Total of Orissa	1,02,475	.....	5,391	.....	17,053	79,100

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds	No.
CHOTA NAGPORE.						
Hazaribagh	67,914	6,490	.....	85	5,413	525
Manbhoom	77,931	5,060	69	1,628	5,413	595
Total of Chota Nagpore ...	1,45,845	11,550	69	1,713	10,826	1,120
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ...	89,88,704	49,703	17,484	10,470	7,41,299	879,110
OTHER PROVINCES.						
Assam	7,75,308	.....	994	763	49,332	2,203
North-Western Provinces and Oudh	50,49,183	7,480	2,224	1,377	37,083	347,270
Punjab	8,10,989	4,070	779	.....	.....	261,450
Central Provinces	25,830	770	176	.....	.....	23,100
Rajputana and Central India	40,096	.....	123	.....	.....	3,605
Bihar	441	.. ...	.....	.....	... .	21,210
Bombay	893	.....	.....	.....	... .	1,542,450
Madras	51,915	100	1,352	389	.....	586,000
Pondicherry	2,500	.....	... ..	...	.....	180,000
Burmah	2,50,020	.....	213	1,898	3	216,000
Sind	1,260	.....	.....	... ..	.....	43,450
Other places	25,647	710	... .	15,443	64	5,170,200
Grand Total of Exports in Nov. { 1889 ..	1,60,94,198	62,849	23,385	28,340	8,27,711	9,228,580
1888 .	1,90,20,346	83,199	30,524	15,031	8,71,509	10,414,380

The Sea-borne Trade of Calcutta in these Staples during the month of November, 1889, was as follows:—

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom ...	98,13,843	.....	9,352	... ..	6 31,074	.. .
Other Foreign ports ...	46,821	.....	196	.....	2,17,313	12,150
Total of Foreign Trade ...	98,60,664	.....	9,548	... .	8,48,387	12,150
From Indian Ports—						
Bombay	7,142	2,42,610	29	7,719	45,186	4,009
Sind	960	3,050	.....	.	... .	.....
Madras	300	20,671	.....	251	.....	...
Other ports in Madras ..	.....	400	... ..	24	... ..	
Burmah	3,950	1,615	.....	.....	.....	7,200
Other Indian ports .	300	850	... .	25	... .	225
Total of Interportal Trade ...	12,652	2,69,396	29	8,021	45,186	11,425
Grand Total of Imports in Nov. { 1889 ...	98,73,316	2,69,226	9,577	8,021	8,93,573	23,575
1888 ..	1,43,30,997	2,78,155	17,612	7,766	8,99,141	48,600

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of November, 1889.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	2,30,351	3,795	1,016	16	3,07,493	105,551
,, river steamers	13,30,638	...	2,754	1,057	40,895	68,309
,, rail ... { East Indian Railway	98,96,095	50,160	4,528	11,400	3,71,889	1,144,315
,, rail ... { Eastern Bengal State Railway	38,90,817	... ..	6,711	.....	88,878	42,878
,, road	1,81,225	3,068	411	137	5,836	5,400
,, sea	5,18,475	816	7,065	15,730	15,499	7,801,109
Grand Total of Exports in November ... { 1889 ..	1,00,24,103	62,839	23,385	28,340	8,27,711	9,228,570
1888 ...	1,90,20,346	83,199	30,524	15,031	8,71,509	10,414,380

STATISTICAL DEPARTMENT,
The 15th February, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

I.—Table showing the Monthly and Annual Rainfall at 258 Rainfall-recording Stations in Bengal for 1889.

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
ORISSA.														
Pooree	Pooree	—	0·17	—	—	1·04	12·31	10·58	21·16	4·65	13·01	17·63	0·21	80·80
	Khurdah	—	0·10	0·07	0·12	1·12	14·85	15·08	15·30	8·23	11·85	10 16		76 86
	Banpur	—	0·22	—	—	1·20	7·57	11·54	14 71	4·58	12 50	14·16	0·14	66·92
	False Point	—	2·04	—	0·08	1·13	15·18	11·48	15·70	6·10	10·30	16·58	1·04	80·32
	Gop	—	0·64	—	—			11·44	10·65	3·94	19·95		—	
	Pipli	—		—	—									
Cuttack	Jagatsingpore	—	2·43	—	—	2·11	8·79	24·43	11·98	4·85	11·80	10·41	—	76·40
	Banki	0·09	1·22	0·02	0·06	0·63	11·94	7·19	13·07	3·68	8·45	7·09	—	54·05
	Cuttack	—	0·33	0·03	0 83	3·29	18·80	12·73	14·59	5·59	8·84	11·54	—	76·37
	Kendrapara	—	1·38	0·01	0·74	2·82	13·11	16·60	15·01	5·40	8·50	10·31	0·26	74·18
	Jajpore	0·30	0·85	0 10	0·58	4·82	12·55	10·28	8·09	4·74	7·03	9 49	—	59·83
	Dharmsalla	—	0·30	0·25	1·25	3·40	12·60	9·85	12·20	5·10	8·10	9·00	—	61·25
	Salipore	—	0·90	—	0·70	1·85	16·54	15·08	16·97	3·70	7·80	10 55	—	74·07
Balasore	Chandbali	—	1·80	0·30	0·80	3·43	5·06	8·32	10·12	9·35	8·30	0·96	0·12	57·54
	Bhuddruck	0·50	0·38	1·8	—	5·36	7 93	11·62	12·14	7·93	4·73	8·23	—	60·59
	Sorah	—	1 60	0·67	1·27	5·01	4·13	8·60	8·43	5·80	6·96	6·90	—	49·64
	Balasore	—	0·73	—	1·51	4·45	4·35	4·48	11·51	4·37	12·31	6·47	—	50·07
	Jellasore	—	1·06	0·98	—	1·20	8 16	3 59	8 57	4 83	9·02	6·23	—	40·73
	Baripodah	—	1·88	0·09	1·73	4·30	13·91	9·02	13·98	5·41	5·02	4·27	—	60 51
SOUTH WEST BENGAL.														
Midnapore	Contai	—	1·78	0·16	—	1·77	11·50	5·71	13·14	9·43	5·82	7·71	0·05	57·07
	Sangor Island	—	1·51	—	—	2·13	13·39	9·02	10 70	4·90	10·91	6·90	0·03	59·25
	Tumlook	—	2 10	—	0·70	1·70	11·50	9·20	12·50	5 10	7·10	2·30	—	55·10
	Midnapore	1 67	5·00	—	1·40	2·46	9·19	7 85	13·06	7·10	2·33	4·25	—	55·04
	Ghattal	0·46	1·27	0·03	1·14	3·98	8·17	8·27	11·41	5·57	4·29	2·10	—	46 39
	Kukrahatty	0·09	2·14	—	1·49	5·34	19·05	9·31	10·97	4·10	6·43	4·65	—	63·10
	Heria	0 03	1·07	0·15	0 14	5·48	20·50	7·46	10·37	7·36	8·91	4·98	—	67·05
	Bhagwanpore	1·18	4·94	0·15	—	4·67	13·11	6 15	11·42	7·85	5·34	3·18	—	57·99
	Garhetta	0 28	1·20	—	—	3·10	13·36	12·18	8·05	6·52	0·75	2·43	—	47·77
24-Pergunnahs.	Diamond Harbour	—	1·79	0·03	1·27	5·08	17·91	10·15	13·46	5·52	5·85	5·38	0·04	66 50
	Canning Town	0·57	1·24	0·22	1·05	3·81	10 90	8·87	12 96	8·12	10·26	8·91	0·17	66·88
	Alipore Jail	0·27	2·60	1·16	2·45	3·92	12·73	12 98	8·52	5·38	4·58	3·69	—	54·28
	Barrackpore	0·10	1·52	0 31	0·83	1 62	13·42	9·52	8·35	9·50	6·74	2·54	—	54 55
	Dum-Dum	0·44	2·38	1·06	0 68	2·42	19·36	8·98	13·98	7·06	7·84	4·09	—	69·19
	Baraset	0 24	2·75	0·36	0·40	3·12	14·76	11·85	10·10	5·87	8·03	4·86	—	61·49
	Bussorhat	0·27	1·46	0·29	0·62	1·80	13·72	12·09	9 01	8·01	12·54	8·15	—	69 86
Howrah	Howrah	0·15	2·03	0·98	1·18	2·19	17·95	13·87	9·93	7·28	6·53	2·92	—	64·11
	Mohesreka (*Oolooberiah*)	0 42	3·23	0 24	1·44	1·61	10·93	16·69	13·88	4·57	5·35	1·61	—	60·37
Hooghly	Serampore	0·27	1·88	0·32	0 88	1·09	13 76	10 43	10·15	7·48	5·75	2·74	—	58·43
	Hooghly	0·18	1·00	0·2	1·70	1 79	8·21	8·03	7·30	6·77	2·61	2·61	—	40·40
	Jehanabad	0·08	1·18	0·47	1·54	1·53	13·74	8·97	7·54	4·57	1·53	3·25	0·03	45·03
Burdwan	Culna	0·73	0·37	0·31	1·04	2·72	11·55	5·95	5·87	7·55	2·11	5·77	—	43·77
	Burdwan	0·36	0·36	0·16	1·36	4·36	11·74	9·68	5·39	9·58	1·41	4·93	—	49·21
	Cutwa	0·60	0·67	0·43	0·34	1·90	7·52	7·14	7·81	6·01	2·51	10·42	—	45·06
	Ranegunge	1·43	0·41	0 44	0·11	5·02	13·83	13·93	10·18	7·01	0·51	7·53	—	59·20
	Mankur	1 18	1·24	0·19	0 42	4·03	9·28	15·81	8 76	12·41	2 07	5·24	—	59·74
Bankoora	Bankoora	0·55	0·39	0·37	1·44	3·80	14·34	10·19	8·60	6·59	3·06	4·17	—	53·74
	Bishenpore	0·75	1·57	1·65	1·65	3·18	15·02	12·62	7·75	9·61	5·77	3·54	—	65·56
	Maliara	0·65	1·08	0·24	0·40	2·67	14 16	10·11	7·86	9·50	?	?	—	46 67?
	Khatra	—	1·67	—	1·78	2·19	21·76	13·53	12·26	9·30	2·10	3·69	—	68·36
	Indas	0·14	0·54	0·27	1·65	4·78	14·63	11·01	5·25	6·04	1·40	3 30	—	48·75
	Kotalpur	1·89	0·83	0·62	1·20	2·19	14 88	14·03	6·91	7·90	Nil	2·43	—	52·84
	Anda	0·25	0·95	0·50	0 23	0·93	10·08	14·27	8·63	4·53	0·76	1·33	—	42·47
	Ganganjalghati	0·53	1·33	0·23	0·25	3·06	11·67	13·30	9·26	10 78	3·63	7·56	—	61·51
	Raipore	—	0·73	0 45	0·84	1·42	17·17	14·68	10·45	5·08	5·66	3·93	—	60·39
	Sonamukhi	0 57	0·47	1·12	1 53	4·95	15·09	11·94	5·92	10·07	1·43	4·84	—	58·02
Beerbhoom	Sh. Snory	1·12	1·11	0·23	0·03	3·90	13·69	11·61	11·02	11·91	3·09	3·94	—	61 85
	Hetampore	1·86	0·87	0·41	0·12	5 30	13·50	8·36	6·16	7·63	1·71	4·56	—	49·85
	Rampore Haut	2·48	0·96	1·59	0·11	2 92	11·90	10·23	7·47	12·80	0·64	2·32	—	52·92
	Bolpore	1·45	0·73	0·49	0·19	3·65	10·52	9 81	10·76	12·74	2·87	4·62	—	57·82
	Murarai	?	?	?	—	3·96	9 07	13·75	6·90	17·28	1·70	1·73	—	53·40?
Nuddea	Ranaghat	1·73	0·44	0·40	0·92	2·17	13·48	9·14	12·03	10·02	4·28	3·90	—	59·55
	Kishnaghur	1·97	0·51	0·44	0·51	1·51	9·36	8·60	4·58	5·11	4 83	3·93	—	45·48
	Chooadanga	0·94	0·80	0·95	0·75	1·95	8·93	8·16	7·65	10·00	3·72	10·65	—	54 90
	Meherpore	2·14	0·87	2·21	7·39	3·21	10·45	7·16	11·30	11·50	6 09	5·26	—	67 59
	Kooshtea	0·57	0·76	—	0·85	2·53	14·07	10·11	9·14	10·94	1·91	5·21	—	59·44
Khoolna	Satkhira	0·86	0·91	1·55	0·74	1·46	11·23	11·38	9·31	6·51	2·25	3·60	0·01	57·00
	Bagirhat	0·29	0·78	0·57	3·46	0·79	14·05	10·86	9·37	5·23	10·46	2·21	0·34	59·10
	Khoolna	0·25	0 46	0·64	2·73	0·44	11·28	8·65	9·30	10·91	11·39	3·25	0·18	59·86
	Nakipur	?	?	?	?	?	?	?	?	?	?	?	0·39	?
Jessore	Narail	0·78	1·00	0·83	2·72	3·19	11·15	9·19	8·26	5·27	7·19	5·10	—	54·78
	Jessore	0·49	0·30	0·91	2·02	2·14	18·18	9·65	7·17	9·99	7·98	7·62	—	66·75
	Jhenidah	0 65	0·64	0·15	2·80	3·47	10·33	7·43	8·55	9·79	4·50	8·99	—	56·71
	Magoora	0·85	0·88	0·57	2·91	3·79	15·76	9·57	8·86	2·46	7·21	9·73	—	61 89
	Bongong	0·45	0·90	0·57	0·88	1·33	9·71	11·19	5·66	4·47	9·81	3·95	—	48·75
Moorshedabad.	Kandi	0·76	0·80	0·84	0·10	4·82	16·12	9·57	6·91	9·75	0·51	5·76	—	57·97
	Berhampore	1·38	0·90	0·29	—	7·74	10·12	7·35	6·67	9·27	1·31	3·94	—	48·97
	Lalbagh	1·88	0·81	0·19	0·08	5 30	5·78	13·27	7·36	9 26	2·43	4·04	—	50·99
	Azimgunge	2·44	0·82	—	1·45	4·89	8·80	10·92	5·82	13 71	0·69	?	?	48·46
	Jungipore	2·97	1·00	0·04	1·47	3·29	12·91	13·30	6·15	15·40	2·19	2·16	—	60·40
	Lalgola	2·34	1·14	0·06	0·55	4·75	17·31	13·82	5·63	13·96	2·30	1·80	—	63 56
	Jiagunge	1·93	0·81	0·14	0·69	4·96	7·94	9·36	6·06	13·48	0·38	2·77	—	47·49
	Akhriguni	2·36	1·41	—	—	3 73	10·24	12·02	5·93	10·00	1·02	2·07	—	46·68
	Patkabari	0·50	—	—	0 5a	3 98	10·90	1·60?	3·70	?	3·80	5·50	—	
EAST BENGAL.														
Chittagong	Cox's Bazar	—	0·50	0·56	—	6·02	25·31	23·81	37·19	22·83	7·47	1·11	0·13	129·65
	Chittagong	—	0·90	0 53	3·47	4·90	18·47	11·23	25·10	13·61	3 77	1·66	0 71	84·10
	Kutubdia	—	0 53	0·30	1·21	3·23	24·16	21·68	30 20	17·45	2·80	1·78	0·05	113·44
	Satkanya	—	0·26	0·05	0·64	3·35	17·79	9·68	19·61	7·64	3·55	1·25	0·10	64·52
Chittagong Hill Tracts.	Rangamati	—	1·54	0·72	4·08	6·03	13·73	16·14	14·45	8·37	1·90	4·32	0·40	71 38
	Ruma	—	1·04	0 90	—	4·90	14·40	13·05	13·03	11·27	7·33	4·45	0·95	71·74
Backergunge	Patuakhally	—	3·07	0·85	1·22	5·38	20·92	20·88	19·44	10·46	8·03	2·00	0·05	91 44
	Perosopore	0·17	0·74	0·27	3·08	2·48	21·21	13·09	13·06	4·34	16·79	2·14	0·20	76·52
	Burrisal	0·60	1·45	0·78	1·76	2·95	20·24	12·21	16·11	9·38	9·07	2·26	0·14	77·25
	Bhola	0·24	0·80	1·33	1·58	3·83	19·43	11·63	16·96	11·91	7·06	4·88	0·27	83·74
	Gouranddi	—	1·55	1·00	4·42	2·97	20·71	6 40	10·82	7·27	6·90	4·34	—	68·68
	Hauphal	0·03	1 13	0·20	1·43	3·04	25·87	15·28	27·21	13·38	7 84	1·77	0·35	97·09

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
EAST BENGAL —*concluded.*														
Noakholly ...	Noakholly	—	1·55	3·12	1·06	6·07	25·41	20·62	23·13	18·25	6·81	3·54	0·1	109·66
	Fenny	—	1·45	3·44	5·07	4·93	16·15	27 83	16·17	9·95	2·94	2·44	0·40	89·80
	Harishpore	—	0 84	0·56	0·13	3·09	8·24	30·43	25·81	23·38	1 56	0·47	0·39	84 90
	Ramganj	0·19	1·54	0·67	1·20	2·25	23·29	22·05	18·00	15·26	5·13	1·91	—	92·25
Furreedpore	Madaripore	0·40	0·66	0·26	1·09	3·24	17·76	0·52	10·77	6·11	9·90	3·94	0·00	64·31
	Furreedpore	0·70	0·62	0·36	3·81	2·92	19·10	13 79	11·87	6·90	4·09	7·21	—	80·89
	Goalundo	0·97	0·23	0·19	3·58	7·52	17·36	9·40	9·25	5·05	3·78	7·87	—	65·19
Dacca ...	Munshigunge	0·45	0·19	0·09	3·29	8·42	20·41	14·39	13·34	8·54	9·06	4·05	—	83·00
	Dacca	0 34	0·09	0·11	3·12	6·98	23·86	14·55	11·95	8·50	7·30	3·58	—	80·28
	Narainguage	0·29	1·04	0·03	2·83	11·06	20·25	13·58	16·02	9·10	7·91	5·78	—	88·40
	Manickgunge	1·69	0·20	—	1·58	7 24	17·89	15·04	12·61	5·99	5 45	5·32	—	73·11
	Joydebpore	0·37	0·24	0·01	3·99	10·77	18·30	12·86	14·67	8·07	5·37	3·03	—	78·48
Hill Tipperah	Agartola	0·42	0·52	—	7·27	7·78	12·18	4·44	4·79	7·46	8·37	2·23	—	56·46
Tipperah ...	Comillah	—	1·76	—	6·33	7·23	21·83	10·40	6·84	9·33	7·44	2·51	0·08	73·15
	Chandpore	0 68	1·04	0·90	0·91	3·65	12·50	11 51	13·58	11 61	11·08	3·46	—	70·91
	Brahmunberia	0·39	0·97	0·12	6·89	6·00	16 66	10·27	3·21	8·21	7·42	1·83	—	61·67
	Ramchandrapore	0·02	0·08	0 05	3·32	4 83	21·57	6·66	5·29	9·01	10·41	3·53	—	65·72
	Nasirnagar	C 25	0·40	0·30	4·44	7·85	11·96	2·85	2·50	4·14	3·99	1·20	—	39·78
	Baudkandi	—	—	0·05	1·70	6·50	20·60	7·89	9·07	4·73	5·45	3 20	—	57·19
	Kasba	0·32	0·05	0 44	5·94	6·29	14·23	8·00	4·77	17·92	11·35	2·16	—	71·46
	Laksham	—	2·29	1·10	3·00	1·70	18·35	16·15	11·63	13·97	4·35	3·44	—	75·48
Mymensingh	Kishoregunge	0·09	0·21	—	7·56	6·93	21·06	13·19	12·59	12·57	4·88	1·96	—	81·88
	Atia (*Tangail*)	1·04	0·24	—	1·60	12·10	16·80	11·26	11·50	7·20	2 79	4 90	0·02	70·28
	Mymensingh	0·57	0 21	0·05	4·79	7·31	24 91	20·41	20·71	16·25	8·17	2·14	—	105·5
	Jamalpore	1·84	0·49	—	0·92	4·83	27·52	13·30	11·97	21·74	5·67	1·02	—	89·50
	Netrokona	0·31	—	0·28	3 38	9·53	38 04	28·70	22·00	16·21	11·90	2·37	—	137·71
	Subornakhally	1·38	0·08	0·08	2·94	4·20	15·50	12·27	8·74	7·54	8·02	2 32	—	63 07
	Durgapore	1·90	0·20	—	6·91	11·41	47·33	35 93	31·33	24·90	3·10	0·50	—	162·93
	Sherepore Town	1·66	0·45	—	3·71	4·74	29·95	19·40	11·30	20·42	2·33	0·57	—	94 53
	Dewanganj	1·04		—	2·00	2·13		10 90	9·02	11·42	0 72	0·36	—	
NORTH BENGAL.														
Pubna ...	Pubna	0·53	0·64	0·04	2·36	3·64	15·27	7·20	7·06	9·82	1·81	5·40	0·04	55·71
	Serajgunge	2·12	0·29	—	0 94	8·24	13·30	11·80	9·93	7·46	8·29	2·74	0·13	64·46
Bogra ...	Sherepore	1·16	1·09	0 03	0·59	2·68	19·12	10·86	15 01	11·07	3·60	1·46	—	67·47
	Nowkhilla	1·44	1·15	0·05	1·34	4·77	21 11	8·72	8·14	17·26	1·24	1·09	—	66·31
	Bogra	2·02	0·44	—	—	1·15	24·16	15·40	8 25	19·76	1·34	1·20	0·08	73·25
	Paneshbiti	5·23	0·55	—	—	0·66	29·03	8·36	5·94	17 43	4·07	0·47	—	68·74
Rajshahye ...	Beauleah	1·78	1·61	0·06	0·16	2 28	15·25	9·30	4·19	11·74	1·98	2·44	—	50·28
	Natore	2·70	0·38	—	1·28	0 50	21·71	14·45	7·20	9·94	2·90	3·24	—	63·41
	Naogaon	2·81	1·50	—	0·93	0·75	19·00	10·91	6·86	17·50	2·85	0·89	—	62·29
	Lalpore	0 84	0·40	—	1·62	0·90	11·04	6·84	3·68	4·89	1·89	3·33	—	40·97
	Manda	3·00	0·20	—	—	1·50	17·28	6 66	4·23	8·93	4·12	0·55	—	46·47
Maldah ...	Maldah	3·89	0·30	—	—	1·28	10·91	8·34	5·71	19 71	3·83	0·83	—	54·80
	Ohanchai	2·74	0·69	0·03	—	0·13	5 04	9 06	2 80	11·98	0 29	0·16	—	31·82
	Gajol	3·59	0·95	—	—	0·43	7·56	8·61	4·64	16 05	2 50	Nil	—	43·33
	Shibganj	2·09	0·36	0·07	0·31	2·75	11·09	8 77	6·53	15·33	3·72	1·78	—	55·21
Dinagepore ...	Mohadebpore...	3·28	0·48	0·04	—	0·65	19·40	8 81	7·08	14·27	2·07	0·65	—	57·43
	Chursmon	3·10	1·72	—	.	0 21	11·15	13·74	7 03	18·51	0·16	0 42	—	56·64
	Raigunge	3·04	1·34	0·02	—	0·10	13·60	11·42	11·52	14 35	1·27	Nil	—	56·06
	Dinagepore	2·42	0·57	—	—	1·05	23·73	11·83	13·60	18·23	0·42	Nil	—	70·85
	Balcorghat	2·95	0·51	—	—	1·62	19·19	8·34	6·02	20·57	4·38	0·26	—	64·74
	Thakoorgaon	3·47	0·57	0·20	0·98	0·03	35·65	22·97	9·08	17·53	1·27	0·06	—	91·69
Rungpore ...	Bhawanigunge (*Gyabanda*).	3·79	0·51	—	1·99	5·05	30·96	12·98	11·54	19·35	1·71	0·29	—	92·98
	Rungpore	2·75	0·93	0·40	2·93	2·61	29·90	16·53	11·99	11·78	1·60	0·04	—	81·45
	Kurigram	2·36	0·61	0·25	3·20	5·90	36·25	16·82	9·43	23·08	Nil	Nil	—	98·30
	Bagdogra (*Vilphamari*) ...	2·28	1·23	0·02	3·66	1·93	28·95	22·07	19·45	14·53	0·76	Nil	—	94·86
	Ulipore	1·50	0·78	0·05	2·10	4 63	35 19	13·11	9·50	17·41	Nil	Nil	—	84 86
Julpigoree ...	Julpigoree	2·46	0·88	—	1·13	6 56	33·41	38·38	23 17	20·12	1·35	1·84	—	128·49
	Alipore Doear	1·68	1·40	3·14	6·53	6 37	27·30	40·00	27·80	18·18	1·86	Nil	—	133·86
	Fallacatta	1·70	0·80	0·45	4 88	10·82	22 83	47 72	34·48	14·43	4·85	0·16	—	138 84
	Debiganj	2·28	1·66	—	1·40	3·63	27·85	28·07	18·45	12·30	0·62	0·15	—	96 41
	Bhagatpore (*Nagrahatta*)	1·68	1·52	2·31	2·73	10·80	37·94	37·78	31·37	16·89	7·29	0·22	—	149 62
Cooch Behar	Dinhatta	2·16	1·10	0·58	3·44	9·01	28·95	21·11	14·00	24·94	1·92	0·13	—	108·41
	Cooch Behar	2·02	2·55	0 15	2·31	10·60	27·97	41·47	29·70	16·19	2·45	0·68	—	136·35
	Mekligunge	1·85	2·47	0·12	1·87	8·70	36·74	34·42	18·85	10·53	1·34	0·15	—	128·07
	Matabhanga	1·73	1·95	1·11	1·21	10·93	26·19	49 05	22·17	11·54	1·61	0·21	—	126·70
Darjeeling Hill.	Buxa	2·24	2·70	6·25	2·90	17·70	37·71	71·12	38·70	25·12	6·39	0·71	0 01	211·45
	Siliguri	2·06	1·00	2·08	2·24	4·66	31·53	41·71	18·06	20·04	3·20	1 27	—	126·46
	Darjeeling	2·85	2·65	0·39	3·48	5·29	31·35	55·61	20·30	14·18	2·39	0·15	—	136·84
	Kalimpong	2·92	1·39	1·77	2·59	4·65	26 44	33·97	15·00	10·21	3·10	0·27	—	102·34
	Kurseong	?	?	?	?	5·40	33·77	71·87	36·45	19·20	3·34	0·67	—	
NORTH BEHAR.														
Purneah ...	Kissengunge	1·98	0·20	—	0·47	3·18	31·81	30·24	11·82	25·03	0·29	Nil	—	105·02
	Arrareah	2·10	0·36	—	—	1·24	26·67	19·08	14·90	17·17	Nil	Nil	—	82·16
	Purneah	2·58	0·37	0·01	—	2·88	11·41	19·57	9·20	18·88	1·81	Nil	—	66·41
	Gendeora	2·98	—	—	—	1·50			9·51	11·83	2·70	Nil	—	
	Balarampore	2·00	0·75	—	—	0·40	14·18	14·07	3·90	13·75	1·60	Nil	—	52·45
	Matiari	2·81	—	—	—	0·78	34·00	28·01	10·93	14·79		0·23	—	
	Kaliaganj	1·62	0·36	—	0·38			27·51	16·18	19·35	1·58	0·65	—	
North Behar Sulpore.	Maddapore	4·17	1·28	—	—	1·65	14·37	17·30	8·64	17·44	1·45	Nil	—	66·30
	Soopaul	3·37	1·01	—	—	1·04	14 51	15·55	19·96	16·06	0·14	Nil	—	71·64
	Protabganj	2·92	0·44	—	—	0·90	31·50	29·41	13·14	14·84	Nil	Nil	—	91·21
Durbhunga ...	Tajpore	4·18	1·75	0·07	—	1·47	11 88	10·10	8·16	10·69	0·13	0·03	—	48·39
	Durbhunga	3 23	0·67	0·10	—	0·31	10·88	14·37	12·81	11·20	0 54	Nil	—	54·01
	Madhubani	2·75	0·87	—	—	2·89	14·05	15·57	12·68	17·94	Nil	Nil	—	66·71
	Bahera	3·61	0·85	0·05	—	0·92	13 56	15·86	13·78	20·75	0·14	Nil	—	71·47
	Roshera	3·33	0·90	—	—	0·90	13·24	7 53	17·01	17 56	Nil	Nil	—	60·07
Mozufferpore.	Sitamarhi	3·93	0 84	0·03	—	0·22	13·72	15·48	11 52	10·72	Nil	0·30	—	38·86
	Muzufferpore	3·44	1·86	0·15	—	0·45	16 77	11 79	5·40	15 88	Nil	0·12	—	55·06
	Hajipore	1 93	1·90	0·10	0·01	1·31	10·42	9·12	1·53	11·05	Nil	0·20	—	46 45
	Pars	1·48	1·89	—	—	0 60		8·24	6·78	14·52	Nil	0·14	—	
	Mahua...	2·89	1·31	0·10	—	0 57		13 67	9·99	10 30	Nil	0·40	—	
	Sinhar...	13 37	1·25	—	—	0·20		11·29	7·32	15·15	Nil	0 45	—	
	Pupri	2·40	—	—	—	Nil	9·02	16·98	12·15	8·55	Nil	Nil	—	80·00
Chumparun ...	Motihari	2·59	1·27	0·04	—	0·53	22·79	24·82	7·50	18·16	0·38	0·02	—	78·68
	Bettiah	1·81	2·02	0·13	—	1·27	13·88	14·65	6·39	13·87	Nil	1 73	—	56·25
	Bagaha	2·89	1·24	0·09	—	2·35	15·71	21·79	14·04	13·93	Nil	1·13	—	74·09
	Narkatea	2·88	1·24	0·40	—	2·10	12·81	15·50	8·50	12·13	Nil	0·36	—	56 21

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
NORTH BEHAR—*concld.*														
Saran ..	Gopalgunge	3 29	1·75	0·39	—	0·21	6·55	9 62	4·84	12·11	Nil	0·35	—	40·32
	Sewan	2·60	1·01	0·25	—	1·11	13·53	10·99	9·63	8·37	Nil	1·87	—	48·06
	Chuprah	2·09	1 13	0·34	—	0·27	7·76	13·88	7·58	1·004	Nil	1·21	—	44·39
SOUTH BEHAR.														
Shahabad ...	Buxar	1·33	1 22	0·04	—	0·19	9·81	16 80	11·09	6·00	1·02	2·44	—	50·03
	Dehree	0·49	1 01	1·15	—	0·25	6·27	7·42	19·21	7·00	2·36	0·37	—	45·31
	Bhubooah	0 50	0·80	0 75	—	0 20	1·90	10·55	16 05	6·85	1·11	1·50	—	40·21
	Sasseram	0·60	0·46	1·22	—	0·21	3 10	6 30	15·26	3·07	1 03	0·41	—	31 79
	Arrah	1·64	1·08	1·18	—	0 90	8·28	13·48	13·68	5·15	0·92	0·18	—	45 59
	Mohanial	0·60	1·20	0·51	—	Nil	2·80	—	7·00	0·55	1·80	1 50	—	
Gya ...	Aurungabad	0·65	0·90	0·27	0·14	0 03	3·09	9·22	17·03	3·46	0·41	0·38	—	37·38
	Gya	0·72	3·13	0·80	—	Nil	12·05	10·78	10·66	5·16	1·10	0 13	—	44·50
	Nowadah	2·12	0·86	0·35	—	0·14	11·49	10·87	11·01	4·36	1·16	0·06	—	42 92
	Jehanabad	1·90	1·08	0·25	—	0·27	7·17	8 04	12·68	4 50	0 35	0·39	—	37·23
	Arwal	0·92	1·04	0·23	—	0·30	5·75	14 15	9·09	4·66	0·07	0·33	—	37·48?
	Daudnagar	0·40	0·45	—	—	0·50	4·32	8·11	10·20	3 66	Nil	Nil	—	27 54
	Sherrghati	1·41	1·10	—	—	0·5	9·10	6 50	6·03	5·41	1·40	Nil	—	31·80
	Rajauli	0·10	0·55	—	—	0·10	3·32	6 60	5·80	3·10	0 20	0·30	—	18·27
	Pakri Barawan	1·00	0·65	0·20	—	1·70	9·46	11·48	4·95	4·31	Nil	Nil	—	33 75
Patna ...	Patna	2·13	1·52	0·25	—	2·89	14·29	8·84	8·49	15·70	0·05	0·23	—	55·38
	Dinapore	2·00	1·21	0·33	—	0·74	10 31	13·57	10·22	10 40	0·04	0·25	—	49·07
	Behar	1·89	2·68	—	—	1·58	11·03	10·45	11·40	5·48	0·36	0·18	—	45·65
	Barrh	3·13	2·71	0·20	—	2 06	8·29	13·21	7·07	4·79	0·41	0·10	—	41·87
	Bickram	1 30	0·00	0·18	—	0 60	0·60	13·86	15·35	6 35	Nil	0 32	—	48·33
	Bihta	1 88	2 19	0·28	—	2 85	11·05	6·65	8·12	6·16	0 08	0·13	—	39 56
Monghyr ...	Beegoosserai	3 15	2 56	0·15	—	2·81	5·81	15 27	6·81	16·67	0 45	0·10	—	53·28
	Monghyr	2·30	0·92	0 10	—	0 74	10·24	8·07	11 08	11·16	Nil	Nil	—	44·99
	Jamui	2·48	1 04	0·17	—	2·01	10 80	10·58	6 79	9 09	Nil	0 21	—	41·17
	Gogri	5 45	0·63	0·09	—	1·35	12 05	13·92	15 17	13·70	Nil	Nil	—	65·36
	Sheikpura	1·45	1·10	—	—	0 60	10·31	14·12	11·27	7·02	Nil	Nil	—	45·87
South Bhagulpore.	Bhagulpore	2 03	1·70	—	—	1·61	13·04	11·20	8 30	9·97	Nil	0·04	—	48·79
	Banka	3 34	0 79	—	—	1·47	10·16	10·01	5 44	10·34	0 46	0 26	—	42·47
	Kolgong	2 32	1 14	—	—	3·91	10 53	9 74	11·38	11·26	0·20	0·02	—	50·43
	Bangaon	?	?	?	?	?	?	11 20	15·45	14·71	Nil	Nil	—	
Sonthal Perguunahs.	Rajmehal	2 34	0·82	—	—	1·65	14·0	12·82	13 06	17·02	1 72	0·30	—	67·06
	Godda	3·65	0 89	—	—	4 50	16·16	8 55	4·25	11·91	2·54	0·73	—	53 57
	Pakour	2·52	0·78	0·04	0·49	2·25	12·45	21 15	9·43	20·14	7·45	0 91	—	77·94
	Nya Doomka	2 02	1 14	0·19	0 59	4·16	11·01	17 49	8·56	8·71	4 29	2·51	—	60·09
	Deoghur	1 40	0 45	0·17	—	0 57	5·07	1·35	8 22	10 13	2·47	1·99	—	42·51
	Jamtara	1·02	0 51	0·55	0·54	0 56	9·2	10 69	8 89	10·06	2·27	3 74	—	47·03
	Mohagama	1·42	2·45	—	—	1 05	12·47	13·21	5 81	20·09	1·80	0·18	—	61·.8
	Nanihat	0·84	0 68	—	—	1·23	5·78	4·95	4·79	4·02	0·79	0·45	—	24 56
CHUTIA NAGPUR.														
Hazaribagh...	Pachamba (*Giridi*) ..	1·45	1·26	0·38	0 36	1·70	8·40	7 73	13 09	5·79	0·90	1·40	—	42·01
	Hazaribagh	0·44	0 92	0 98	0·42	0·83	10 08	12·23	13 51	7 72	3· 6	1·49	—	51·86
	Somtagurah	0·77	0·77	0 41	1·11	1·15	6 70	12 04	6·53	7·53	1·14	1 15	—	39 30
	Mahudi Hills	1·21	0·29	0·06	0 47	2·24	14 48	10·54	10 88	9 28	1·81			
	Jhoomra Hills	1·20	1·55	—	—	1 10	10·80	9 80	10 90	7·70	0·50	2·20	—	45·75
	Barki	0·58	1·02	0·24	—	0 43	6·56	8·2·	6 05	7·54	2 21	0·30	—	33·40
	Chatra	0·80	3·31	0·24	0·18	1·46	12·47	13 04	9 66	4 05	4 36	0·71	—	50·69
	Kuragdeha	2·00	0·65	0·12	—	1·10	14·90	6 70	6 15	8·70	0·70	3·10	—	43·12
	Ramghar	—			—	Nil				11·97			—	
Lohardugga	Lohardugga .. .	0 38	1·79	0·70	0··8	0·70	8 12	7·61	15·87	9 86	2·03	0·45	—	48·09
	Ranchee	0·07	0·75	0 30	0·70	0·72	10·32	18·53	10·10	8·33	3 70	1·85	—	55·43
	Palamow	1·37	0 23	0·55	0 25	1 69	5·86	7·49	7·33	6 65	4·38	0·61	—	36·56
	Silli	—	0·70	0·10	0·40	1·80	6·70	3·30	12·40	7 80		1·30	—	
	Balumat				—				7·07	3·99	2·05	0·30	—	
	Hosseinabad	1·09	0·18	0·81	0·83	0·31	4·32	13·22	16·13	6·99	1·80	Nil	—	47 59
	Garwah	0·..8	0 50	0 65	0·20	0·65		4 75	11·04	2 60	5·59	0 40	—	
Singbhoom ...	Chyebasa	0·21	0·33	0·32	1·19	1·96	16·37	8·79	12 55	2·81	3·84	2·44	—	50·81
	Chakradharpore	—	1·72	—	0·85	2·51	7·15	7·79	11·04	7·50	2·13	2·66	—	42·37
	Ghatsilla	0·25	0·55	—	0·94	0·98	11·82	10·47	20·03	7·38	3·06	4·99	—	60 44
	Baharagura	—	2·50	1·27	—	1·97	12 83	8·77	9·77	13·03	4·48	3·00	—	57·67
Manbhoom ...	Purulia	0·98	0 57	0·19	1·20	1·98	11·19	10·87	8·26	7·44	1·32	2·50	—	46·40
	Gobindpore	0 77	0·58	0 47	0·11	1·43	8·30	8·36	6·13	6 90	0·37	1·60	—	35·12
	Raghunathpore	0 53	2·10	0 40	0·04	1·55	6·75	13·06	9·97	7·79	0 52	0 27	—	43·98
	Barrabhoom ...	—	0·65	0 43	1·93	2·39	9·40	12 44	9·61	5·73	0·45	4 29	—	47 33
	*Jhalda**					0·89	16 95	6·19	19·65	5 01	0·78	1·97	—	
	*Chas**					0·29	16·89	11·19	14·93	10·53	1 76	2 98	—	

Meteorological Office, Bengal,
The 18th February 1890.

A. Pedler,
Meteorological Reporter to the Government of Bengal.

II.—Table showing the Monthly and Annual Average Rainfall at 169 Rainfall-recording Stations in Bengal.

District.	Station.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ORISSA.															
Pooree	Pooree	31—34	0·26	1·10	0·57	0·86	2·66	7·56	9·91	10·98	9·95	8·05	2·10	0·73	54·68
	Khurdah	18—19	0·27	0·72	0·82	0·60	3·34	9·10	12·55	12·58	10·36	6·60	1·81	0·60	59·31
	Banpur	10—11	0·09	0·58	0·72	0·64	2·06	7·16	10·66	12·11	8·90	6·55	3·09	1·18	54·14
	False Point	21—22	0·58	0·88	1·16	2·10	3·63	8·92	14·15	13·60	11·14	10·27	2·28	0·64	69·44
Cuttack	Jagatsingpore	16—18	0·35	0·61	0·81	0·72	2·70	7·54	10·08	11·37	8·61	6·47	1·34	0·39	51·95
	Banki	7 8	0·25	0·73	1·28	0·39	1·94	10·12	11·37	10·01	8·99	4·61	2·05	0·71	52·45
	Cuttack	28—31	0·40	0·56	1·20	1·41	3·27	10·50	12·40	11·64	9·70	5·45	1·07	0·48	58·08
	Kendrapara	18	0·44	0·73	0·87	1·06	3·94	8·52	11·79	13·24	9·14	5·94	0·95	0·48	57·10
	Jajpore	16—18	0·41	1·31	1·13	1·81	4·35	9·52	13·19	11·74	9·94	5·13	0·75	0·71	60·00
Balasore	Chandbali	15—16	0·48	1·02	1·09	1·02	4·89	7·33	11·83	11·90	11·04	6·07	1·55	0·53	58·80
	Bhuddruck	18—19	0·39	1·32	1·39	1·09	5·17	8·68	12·09	11·22	10·50	4·43	0·99	0·37	58·53
	Soorah	15 16	0·25	0·84	1·63	1·81	4·09	6·69	11·95	11·45	11·13	5·24	0·85	0·13	56·88
	Balasore	29 30	0·73	1·27	1·70	3·00	4·97	9·87	11·89	12·78	12·63	6·61	1·05	0·24	66·74
	Jellasore	15—16	0·72	1·02	0·99	1·41	5·64	7·71	15·10	11·35	10·48	4·34	0·42	0·11	57·79
	Baripada	11	0·28	0·80	1·21	1·39	4·91	10·16	12·77	12·45	11·11	3·93	0·93	0·20	60·19
SOUTH-WEST BENGAL.															
Midnapore	Contai	20—22	0·31	1·38	1·17	1·51	4·42	10·32	14·41	14·22	11·74	8·09	1·02	0·34	68·93
	Saugor Island	21—22	0·34	1·17	1·35	1·31	4·47	10·86	15·98	16·01	12·50	9·06	0·81	0·29	74·21
	Tumlook	18	0·38	1·16	1·77	1·64	4·80	8·92	12·25	14·56	8·83	4·19	0·19	0·26	58·45
	Midnapore	23—25	0·72	0·84	1·41	1·64	5·33	9·52	13·90	12·57	8·19	4·92	0·32	0·28	59·58
	Ghattal	12 14	0·51	0·69	1·68	1·81	5·14	9·79	13·02	16·05	8·98	3·32	0·15	0·27	62·15
	Garbeta	8—10	0·56	1·08	1·46	2·05	4·06	7·44	13·37	14·26	9·04	2·45	0·61	0·19	56·52
24-Pergunnahs.	Diamond Harbour	18—19	0·64	1·68	1·44	2·32	4·99	9·35	14·53	15·00	11·01	5·05	0·38	0·27	66·66
	Alipore Jail	18—19	0·71	1·47	1·69	1·81	5·29	9·79	13·37	14·32	9·90	4·30	0·42	0·33	63·30
	Barrackpore	18—19	0·45	1·27	1·72	1·81	5·17	8·89	12·49	12·57	7·44	3·33	0·59	0·30	56·03
	Dum-Dum	18—19	0·52	1·12	1·57	2·08	5·91	9·60	12·18	13·40	8·79	4·28	0·29	0·30	59·89
	Baraset	18—19	0·59	1·29	1·57	2·03	5·85	9·69	11·24	12·51	9·02	4·36	0·36	0·29	58·80
	Busseerhat	18—19	0·42	1·04	2·18	2·13	6·39	10·69	12·82	13·25	8·70	4·24	0·37	0·22	62·44
Howrah	Howrah	20—21	0·59	1·26	1·88	2·03	5·09	10·67	12·60	13·34	9·10	4·13	0·41	0·27	61·36
	Mohesreka (*Ooloobeeriah*)	13—14	0·51	1·44	1·18	1·47	6·03	8·64	13·48	14·90	8·33	3·33	0·45	0·30	60·00
Hooghly	Serampore	17—18	0·42	1·24	1·39	2·00	4·06	9·52	13·13	12·96	7·90	4·10	0·40	0·27	58·29
	Hooghly	24 25	0·45	1·38	1·77	2·71	5·64	10·39	12·22	13·00	7·61	3·95	0·40	0·26	59·80
	Jehanabad	17—18	0·39	1·27	1·15	1·91	5·07	9·20	12·88	16·35	9·62	4·16	0·26	0·19	62·54
Burdwan	Culna	18—19	0·46	1·08	1·39	2·30	4·78	8·36	11·26	12·00	6·54	3·74	0·58	0·21	52·85
	Burdwan	28—29	0·34	0·77	1·30	2·23	5·05	9·37	12·35	12·38	8·26	4·40	0·57	0·17	57·19
	Cutwa	18—19	0·45	1·16	1·29	1·80	5·37	9·90	10·48	12·69	8·20	3·85	0·31	0·10	55·60
Bankoora	Bankoora	31—34	0·37	1·08	1·41	1·61	3·42	9·68	12·78	12·36	8·56	4·32	0·45	0·17	56·41
	Bishenpore	10—11	0·42	0·77	1·37	1·60	4·60	10·01	12·12	15·12	9·10	2·71	0·37	0·24	58·63
	Maliara	9—10	0·35	0·67	0·67	0·87	3·25	9·14	13·94	13·84	6·52	?	?	0·21	49·46?
	Khatra	9 10	0·49	0·66	1·14	0·83	3·33	11·41	12·01	14·17	9·66	3·71	0·90	0·42	61·73
	Raipur	10—11	0·32	0·85	1·17	0·85	4·00	8·71	11·79	16·74	8·90	3·55	0·66	0·20	57·74
Beerbhoom	Bh. Soory	26—29	0·46	0·92	0·67	0·94	3·29	10·10	12·64	13·17	9·77	3·59	0·16	0·16	55·83
	Hetampore	13—14	0·51	0·97	0·45	1·13	3·24	16·92	14·34	13·13	10·32	2·71	0·20	0·12	58·08
	Rampore Haut	16	0·53	0·84	0·71	1·52	3·47	9·35	11·13	13·55	11·22	3·69	0·26	0·18	56·45
	Raneegunge	19	0·33	1·19	0·65	1·26	3·09	8·43	14·06	13·94	7·14	3·24	0·21	0·13	53·66
Nuddea	Ranaghat	18—19	0·46	0·93	1·32	2·90	5·06	9·40	10·85	13·00	6·95	3·64	0·60	0·22	55·47
	Kishnaghur	25—28	0·43	1·02	1·25	2·47	6·44	9·52	10·32	11·29	7·84	4·53	0·40	0·15	55·65
	Chooadanga	18—19	0·31	1·11	1·88	2·83	7·86	8·96	10·09	12·50	9·84	4·36	0·50	0·15	60·37
	Meherpore	18—19	0·31	1·02	2·16	2·93	5·98	9·36	10·11	12·60	7·92	3·51	0·20	0·18	56·28
	Kooshtea	19	0·38	1·11	1·87	3·01	7·06	10·56	11·02	11·96	9·96	4·73	0·26	0·19	62·11
Khoolna	Satkira	18 19	0·40	0·93	2·56	2·93	5·93	12·05	13·41	12·38	8·71	4·45	0·40	0·34	64·49
	Bagirhat	17—18	0·69	1·31	1·82	3·26	6·60	12·73	14·86	12·84	9·70	5·03	0·63	0·27	69·86
	Khoolna	17—18	0·60	1·23	2·30	3·21	6·33	12·54	12·09	13·24	9·58	4·07	0·42	0·32	64·83
Jessore	Narail	17—18	0·68	1·16	1·94	3·22	6·36	10·82	9·09	10·53	7·08	3·14	0·50	0·23	54·95
	Jessore	29—34	0·51	0·85	2·14	4·44	7·40	13·13	11·70	11·76	9·26	5·36	0·87	0·19	67·61
	Jhenidah	17—18	0·34	1·10	2·19	3·38	6·47	12·45	9·75	12·55	8·71	4·58	0·33	0·17	62·00
	Magoora	17—18	0·31	1·05	2·53	3·96	7·78	11·65	10·28	9·97	7·99	3·75	0·29	0·16	59·72
Moorshedabad.	Bongong	19	0·33	1·10	1·79	2·74	5·64	9·62	11·20	12·97	8·34	4·60	0·34	0·34	59·01
	Kandi	13—14	0·42	0·85	0·97	1·66	4·40	9·36	12·62	11·75	8·87	3·70	0·42	0·25	55·27
	Berhampore	34—36	0·44	0·96	1·15	1·92	4·87	9·48	10·39	10·91	9·63	5·20	0·33	0·12	55·39
	Lalbagh	18	0·50	0·80	0·89	1·21	4·81	8·80	10·63	12·71	10·12	4·26	0·39	0·10	55·22
	Azimgunge	16—17	0·56	0·76	0·98	1·32	4·66	8·90	10·71	12·68	9·53	4·92	?	?	54·97
	Jungipore	18	0·44	0·71	0·65	1·20	4·82	8·53	10·97	11·79	10·64	3·49	0·11	0·14	53·49
	Lalgola	15—16	0·61	0·65	0·86	1·31	5·46	9·04	11·24	11·47	9·71	4·13	0·22	0·14	54·84
EAST BENGAL.															
Chittagong	Cox's Bazar	18—19	0·77	0·49	1·82	2·53	10·39	35·09	41·31	28·06	14·71	7·88	2·34	0·36	143·94
	Chittagong	30—34	0·51	1·19	1·94	4·62	9·19	25·98	22·18	21·19	13·75	5·96	1·59	0·57	105·57
Chittagong Hill Tracts.	Rangamati	20	0·56	1·14	2·94	4·01	9·89	19·02	18·78	18·94	12·56	6·85	1·75	0·53	95·97
	Ruma	11—12	0·68	0·61	2·35	3·30	8·53	19·42	15·53	15·39	12·29	7·30	2·37	0·59	88·50
Backergunge	Patuakhally	16—17	0·77	1·13	1·81	3·04	7·97	21·44	22·13	17·95	12·85	6·11	1·56	0·45	97·21
	Perozepore	18—19	0·71	1·30	1·61	2·65	6·76	15·98	16·46	15·13	11·15	5·49	1·16	0·27	78·66
	Burrisal	23—24	0·60	0·96	2·38	3·31	7·60	16·51	16·78	17·19	11·44	4·78	1·11	0·25	79·30
	Bhola	11—12	0·59	0·82	2·52	3·59	6·81	20·19	18·46	19·08	11·81	6·28	1·30	0·47	91·90
Noakholly	Noakholly	30—32	0·54	0·87	2·85	4·31	9·14	23·67	21·36	23·22	16·32	7·08	1·75	0·37	112·38
	Fenny	12—13	0·79	1·19	3·99	4·77	10·50	26·23	25·04	24·59	16·01	6·14	2·98	0·84	121·67
Furreedpore	Madaripore	18—19	0·61	0·97	2·83	3·62	8·82	13·09	12·59	12·20	8·30	4·02	0·51	0·13	67·69
	Furreedpore	22	0·54	1·29	2·78	4·07	8·43	12·85	12·07	12·21	9·39	4·32	0·44	0·12	68·95
	Goalundo	17—18	0·40	1·22	2·33	3·93	7·43	11·07	11·80	11·54	8·11	4·60	0·65	0·13	62·98
Dacca	Munshigunge	16—17	0·54	1·35	3·95	4·82	9·05	16·17	16·12	14·72	12·20	5·24	0·85	0·31	85·32
	Dacca	38—40	0·30	1·01	2·03	5·81	9·03	13·00	12·96	12·30	9·95	5·09	0·67	0·21	73·05
	Naraingunge	6—7	0·51	1·16	3·11	4·73	8·20	14·12	15·32	13·18	10·35	4·45	1·28	0·29	75·50
	Manickgunge	16—17	0·44	1·15	1·99	3·97	8·66	9·62	12·11	11·71	7·88	3·78	0·39	0·12	61·82
Hill Tipperah	Agartola	16—17	0·83	1·13	4·86	5·28	11·00	14·21	11·63	13·77	10·15	4·45	0·92	0·39	78·61
Tipperah	Comilla	31 32	0·60	0·89	3·07	6·53	10·37	18·34	17·90	16·77	11·43	5·24	1·26	0·25	92·65
	Chandpore	11—12	0·53	0·89	3·30	4·30	8·62	16·78	15·11	19·52	11·80	6·48	0·81	0·36	88·50
	Brahmunberia	18—19	0·77	1·30	4·68	5·06	11·02	15·53	11·17	12·96	11·61	4·69	0·55	0·26	79·60
Mymensingh	Kishoregunge	18—19	0·57	0·86	3·01	5·00	10·85	18·86	12·93	13·12	12·24	5·18	0·42	0·30	83·34
	Atia	18—19	0·39	1·18	1·45	3·51	6·89	12·77	11·17	11·96	9·47	4·90	0·23	0·09	64·01
	Mymensingh	27—29	0·35	1·19	2·23	5·44	12·02	20·59	16·09	14·52	14·03	5·39	0·72	0·12	92·69
	Jamalpore	18—19	0·43	1·07	1·46	3·26	9·12	15·24	12·47	13·71	13·70	4·86	0·29	0·26	75·87
	Netrokona	7—8	0·14	0·46	2·57	4·24	11·32	21·20	15·73	16·79	14·07	6·31	0·33	0·15	93·81

District.	Station.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
NORTH BENGAL.															
Pubna	Pubna	25—27	0·39	1·18	1·77	3·11	6·81	11·54	10·71	12·67	11·06	4·57	0·33	0·11	64·20
	Serajgunge	18-19	0·45	1·01	1·33	2·78	7·83	11·10	10·95	11·22	9·48	4·29	0·37	0·14	60·95
Bogra	Sherpore	12—13	0·35	0·90	1·48	1·54	8·47	11·71	12·71	12·29	9·94	3·95	0·61	0·22	64·17
	Nowkhilla	12—13	0·36	0·85	1·21	1·99	7·79	12·64	11·47	10·80	9·42	4·76	0·51	0·16	61·99
	Bogra	26—29	0·43	0·97	0·88	3·27	8·70	15·00	15·83	12·26	11·76	4·53	0·76	0·12	74·69
	Panchbibi	12—13	0·34	0·82	0·90	1·60	7·65	11·03	12·40	11·43	10·41	3·99	0·06	0·18	60·49
Rajshahye	Beauleah	30—34	0·29	0·89	1·23	1·73	5·59	10·51	11·49	10·74	10·85	4·77	0·27	0·08	58·64
	Nattore	18—19	0·60	0·89	0·93	2·17	6·79	9·98	12·20	12·32	11·73	4·26	0·26	0·11	62·24
	Noagaon	6—7	0·77	0·41	1·37	0·63	5·36	13·36	10·53	9·02	12·08	2·29	0·17	0·17	56·66
Maldah	Maldah	31—33	0·64	0·73	0·85	1·35	3·87	9·83	10·74	10·27	10·78	4·23	0·21	0·33	53·83
	Chanchal	11—13	0·51	0·66	0·45	1·01	4·60	11·65	12·87	13·73	10·25	3·02	0·20	0·07	58·68
Dinagepore	Mohadebpore	11—12	0·57	0·51	0·70	0·89	6·24	12·80	10·81	12·65	11·59	3·00	0·14	0·16	60·16
	Churamon	10—11	0·63	0·47	0·43	0·63	4·70	11·98	11·90	10·65	12·59	2·42	0·18	0·14	56·67
	Raigunge	12—13	0·57	0·50	0·62	1·12	6·39	13·74	12·69	12·55	10·45	3·56	0·10	0·14	62·33
	Dinagepore	29—31	0·28	0·57	0·79	2·27	7·93	16·84	14·99	13·21	12·62	4·72	0·22	0·10	74·54
	Baloorghat	8	0·62	0·29	0·58	0·95	5·89	12·47	10·03	9·12	10·92	3·40	0·11	0·22	54·60
Rungpore	Bhawanigunge (*Gyabanda*)	18	0·34	0·51	1·46	2·78	9·11	15·69	11·91	10·29	11·67	4·83	0·13	0·16	68·83
	Rungpore	28—32	0·14	0·38	1·15	3·08	10·67	21·03	15·77	13·00	13·06	4·76	0·30	0·12	83·76
	Kurigram	13—14	0·51	0·31	1·93	4·79	13·58	24·01	13·37	10·86	12·71	4·13	0·22	0·23	86·70
	Bagdogra (*Nilphamari*)	12—14	0·50	0·52	1·18	3·48	11·87	25·33	13·58	15·17	14·83	3·89	0·08	0·19	90·57
Julpigoree	Julpigoree	19—20	0·54	0·30	1·89	3·96	11·48	29·12	26·06	25·01	23·59	5·25	0·10	0·08	128·25
Cooch Behar	Dinhatta	12—13	0·54	0·84	1·81	4·48	14·37	31·23	16·19	15·70	21·20	4·74	0·05	0·19	110·84
	Cooch Behar	17—18	0·48	0·29	1·93	5·46	14·57	30·63	22·35	21·03	21·46	5·21	0·11	0·10	129·56
	Mickligunge	12—13	0·37	0·28	1·39	4·79	13·01	27·51	21·24	22·02	23·89	4·21	0·05	0·16	117·22
	Matabhanga	12—13	0·34	0·29	2·29	4·54	12·96	32·23	21·18	22·35	22·74	5·24	0·05	0·12	124·33
Darjeeling Hill.	Buxa	19—20	1·12	0·92	3·16	8·79	20·93	44·19	47·08	43·60	31·85	9·96	0·50	0·57	213·27
	Siliguri	6—7	0·91	0·27	1·71	3·18	8·80	25·89	27·61	21·83	14·83	4·34	0·32	0·09	109·88
	Darjeeling	28—31	0·69	1·14	2·28	3·93	7·57	24·02	30·36	26·67	17·42	6·10	0·22	0·21	120·51
	Kalimpong	8	1·29	0·78	1·75	2·90	5·91	18·73	23·61	20·41	10·55	4·09	0·26	0·26	90·58
NORTH BEHAR.															
Purneah	Kissengunge	17—18	0·62	0·44	0·66	1·87	6·42	15·39	16·40	15·71	13·79	3·13	0·07	0·14	74·73
	Arrareah	16—18	0·51	0·53	0·63	1·50	5·77	12·99	16·18	13·50	13·28	3·34	0·06	0·09	68·36
	Purneah	18—19	0·47	0·55	0·40	1·40	4·20	10·96	14·13	14·40	13·47	3·76	0·08	0·15	64·16
North Bhagulpore.	Maddapore	18-19	0·47	0·56	0·39	1·03	4·31	8·33	12·01	11·86	10·20	4·32	0·06	0·08	53·71
	Soopool	17—18	0·47	0·39	0·40	0·88	3·98	8·07	11·84	11·88	9·40	3·72	0·05	0·12	50·60
Durbhunga	Tajpore	18	0·64	0·38	0·23	0·82	2·27	7·46	12·81	10·49	8·00	3·00	0·10	0·08	45·28
	Durbhunga	18	0·52	0·43	0·29	0·60	2·62	7·84	12·02	11·14	9·33	2·82	0·06	0·17	47·93
	Madhubani	17—18	0·74	0·41	0·37	1·06	3·03	8·45	10·84	10·47	9·90	2·48	0·03	0·07	47·85
Mozufferpore	Sitamarhi	16	0·53	0·30	0·65	1·18	2·64	7·84	10·87	9·52	9·25	2·03	0·01	0·12	45·56
	Mozufferpore	30—31	0·89	0·50	0·46	0·52	2·56	6·81	10·94	10·25	8·23	2·87	0·09	0·08	43·99
	Hajipore	17—18	0·65	0·46	0·35	0·19	2·03	6·54	12·21	10·64	7·10	3·76	0·14	0·12	44·22
Chumparun	Motihari	29—31	0·47	0·28	0·51	0·64	2·44	8·25	10·96	12·23	8·60	3·56	0·03	0·15	48·26
	Bettiah	17—18	0·69	0·41	0·36	0·75	2·66	8·85	12·99	12·12	9·32	3·38	0·01	0·23	51·27
Sarun	Gopalgunge	10—12	0·84	0·53	0·14	0·22	2·66	6·43	12·51	10·16	7·80	4·59	0·18	0·16	45·73
	Sewan	18—19	0·75	0·48	0·23	0·27	1·80	6·66	11·08	10·89	8·83	3·61	0·11	0·14	45·65
	Chuprah	33—36	0·71	0·43	0·36	0·38	1·44	6·17	10·85	9·35	7·21	2·93	0·21	0·09	40·15
SOUTH BEHAR.															
Shahabad	Buxar	20—21	0·79	0·32	0·27	0·16	0·90	4·76	11·07	10·06	7·43	3·20	0·14	0·21	39·40
	Dehree	6-7	0·73	0·28	0·70	0·11	3·20	3·71	11·01	12·50	7·67	2·89	0·25	0·57	43·66
	Bhuboosh	18—19	0·68	0·49	0·56	0·14	1·12	5·04	12·37	12·00	6·70	3·11	0·50	0·33	43·08
	Sasseram	18—19	0·50	0·48	0·30	0·17	1·12	5·09	11·56	12·25	6·95	3·48	0·24	0·28	41·35
	Arrah	30—33	0·88	0·54	0·49	0·50	1·53	6·45	12·02	10·35	8·35	2·94	0·21	0·14	44·95
Gya	Aurungabad	17—19	0·61	0·34	0·38	0·23	1·63	5·21	12·39	12·98	7·15	2·64	0·23	0·36	44·15
	Gya	27—29	0·78	0·50	0·43	0·32	1·25	6·13	11·81	10·61	7·15	2·34	0·24	0·19	41·69
	Nowadah	18—19	0·70	0·46	0·47	0·30	1·91	5·36	11·87	11·48	6·84	2·50	0·18	0·22	42·29
	Jehanabad	16	0·72	0·40	0·35	0·15	1·65	4·91	12·23	12·90	5·72	3·33	0·27	0·18	42·81
Patna	Patna	33—35	0·69	0·47	0·34	0·27	1·74	6·72	10·60	10·00	7·87	2·81	0·23	0·16	41·90
	Dinapore	16—19	0·59	0·30	0·18	0·23	1·65	6·40	11·71	11·50	6·62	3·00	0·14	0·18	42·50
	Behar	18—19	0·67	0·52	0·34	0·28	2·16	6·17	13·04	11·33	6·38	3·06	0·26	0·15	44·28
	Barrh	18—19	0·47	0·43	0·34	0·12	2·32	4·68	12·72	9·80	7·68	3·03	0·25	0·12	42·37
Monghyr	Begoosorai	18—19	0·56	0·53	0·24	0·38	2·35	6·01	11·39	10·33	7·20	3·00	0·31	0·08	42·45
	Monghyr	34—37	0·45	0·64	0·43	0·45	2·12	6·59	11·72	10·72	8·44	3·81	0·26	0·10	45·73
	Jamui	17—19	0·71	0·60	0·43	0·50	2·21	6·35	12·30	12·14	7·29	2·54	0·09	0·09	45·16
South Bhagulpore.	Bhagulpore	34—35	0·50	0·64	0·39	0·84	2·67	8·14	11·86	10·80	7·92	3·93	0·22	0·09	47·70
	Banka	18—19	0·59	0·50	0·34	0·56	2·57	7·50	10·42	11·55	8·03	3·43	0·15	0·14	45·78
Sonthal Pergunnahs.	Rajmehal	17—19	0·19	0·46	0·33	1·04	4·93	10·02	12·91	10·63	11·86	3·03	0·23	0·06	55·69
	Godda	16—17	0·35	0·54	0·40	0·49	3·55	6·70	11·21	11·95	9·53	2·94	0·10	0·18	47·89
	Pakour	11—12	0·53	0·67	0·57	0·48	4·48	10·83	13·56	17·12	13·16	4·45	0·17	0·14	62·36
	Nya Doomka	18	0·55	0·68	0·72	1·05	3·73	8·79	13·49	14·07	10·27	3·88	0·23	0·23	57·59
	Deoghur	19—20	0·43	0·63	0·68	0·80	3·01	8·12	13·64	12·37	8·54	4·36	0·15	0·16	52·89
	Jamtara	13—15	0·45	0·50	0·77	0·61	3·39	7·90	13·54	13·24	7·53	3·03	0·30	0·14	51·70
CHUTIA NAGPORE.															
Hazaribagh	Pachamba (*Giridi*)	18—19	0·39	0·69	0·65	0·64	2·25	7·84	13·39	12·94	8·66	3·21	0·20	0·17	50·98
	Hazaribagh	27—29	0·55	0·74	0·69	0·35	1·72	7·94	13·01	13·14	7·82	3·29	0·32	0·22	49·79
	Semtagurah	11—12	0·51	0·52	1·18	0·30	2·58	7·61	12·78	12·28	8·04	2·81	0·39	0·29	49·29
	Mahudi Hills	10—11	0·83	0·58	0·74	0·10	2·21	7·30	12·23	14·85	8·94	2·47		0·27	
	Jhoomra Hills	8—9	0·55	0·41	0·64	Nil	2·00	9·89	16·46	17·08	10·91	2·93	0·48	0·29	62·54
Lohardugga	Lohardugga	6	0·98	0·57	0·63	0·26	2·53	7·75	12·11	14·05	9·70	2·37	0·50	0·51	51·96
	Ranchee	31—33	0·79	1·02	1·30	0·62	2·36	7·64	12·42	12·37	8·19	3·05	0·29	0·21	50·16
	Palamow	18—19	0·77	0·50	0·65	0·29	1·35	5·91	12·91	12·03	7·95	2·66	0·43	0·28	45·73
Singbhoom	Chyebassa	19—20	0·73	0·84	1·21	0·68	3·82	8·01	14·00	13·78	8·33	2·94	0·24	0·35	54·98
Manbhoom	Purulia	24—26	0·42	0·94	0·89	0·81	2·76	8·77	11·44	12·96	7·80	3·60	0·18	0·26	50·83
	Gobindpore	17—18	0·51	0·88	0·44	0·63	2·00	7·00	11·87	12·49	7·22	4·00	0·12	0·19	47·35

METEOROLOGICAL OFFICE, BENGAL;
The 18th February 1890.

A. PEDLER,
Meteorological Reporter to the Government of Bengal.

III.—Comparison Table of the Rainfall of 1889 *at* 169 *Rainfall-recording Stations in Bengal with the Average of previous years.*

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
ORISSA.														
Pooree	Pooree	−0·26	−0·93	−0·57	−0·86	−1·60	+4·75	+0·07	+10·81	−5·30	+4·96	+15·51	−0·52	+26·12
	Khurdah	−0·27	−0·62	−0·75	−0·54	−2·22	+5·73	+2·53	+2·72	−2·13	+5·35	+8·38	−0·50	+17·55
	Banpur	−0·49	−0·78	−0·72	−0·65	−0·86	+0·41	+0·88	+2·07	−4·02	+5·95	+11·07	−1·04	+12·73
	False Point	−0·58	+1·16	−1·16	−1·51	−2·50	+6·26	−2·67	+2·19	−5·04	+0·03	+14·30	+0·40	+10·88
Cuttack	Jajatsingpore	−0·35	+1·82	−0·81	−0·72	−0·05	+1·25	+13·35	+0·67	−4·06	+5·33	+9·07	−0·39	+24·45
	Sanki	−0·16	+0·49	−1·21	−0·53	−1·32	+1·82	−4·18	+3·66	−5·31	+3·84	+5·04	−0·71	+1·58
	Cuttack	−0·46	−0·23	−1·17	−0·58	+0·02	+8·10	+0·33	+2·95	−4·11	+3·39	+10·47	−0·49	+18·29
	Kendrapara	−0·44	+0·65	−0·86	−0·34	−1·12	+4·59	+4·61	+1·77	−3·68	+2·50	+9·30	−0·23	+17·98
	Jajpore	−0·13	−0·48	−1·03	−1·23	+0·47	+3·03	−2·91	−3·05	−5·20	+1·91	+9·14	−0·71	−0·17
Balasore	Chandbali	−0·48	+0·78	−0·79	−0·22	−1·46	−2·27	−3·51	−1·78	−1·71	+2·23	+8·41	−0·46	−1·26
	Bhuddruck	+0·11	−0·94	+0·23	−1·99	+0·19	−0·75	−0·47	+0·92	−2·57	+0·80	+7·24	−0·37	+1·90
	Soroh	−0·25	+0·76	−0·98	−0·56	+0·02	−2·16	−3·35	−3·03	−5·31	+1·70	+8·05	−0·13	−7·24
	Balasore	−0·73	−0·55	−1·70	−1·49	−0·52	−5·52	−7·41	−1·27	−5·26	+0·55	+5·70	+3·32	−15·07
	Jellasore	−0·72	+0·04	−0·91	−1·41	−2·44	+0·48	−11·51	−2·78	−5·65	+4·68	+3·80	−0·11	−16·35
	Baripodah	−0·28	+1·08	−1·12	+0·34	−0·61	+3·75	−2·65	+1·51	−3·70	+1·09	+3·29	−0·20	+0·33
SOUTH-WEST BENGAL.														
Midnapore	Contai	−0·31	+0·40	−1·01	−1·51	−2·65	+1·18	−6·70	−1·04	−2·31	−2·27	+6·69	−0·29	−11·86
	Saugor Island	−0·34	+0·34	−1·46	−1·31	−2·34	+1·51	−6·98	−5·31	−7·60	+1·85	+5·79	−0·26	−15·96
	Tumlook	−0·88	+1·24	−1·77	−0·94	−3·10	+2·58	−3·05	−2·06	−3·23	+2·91	+4·11	−0·36	−5·55
	Midnapore	+0·95	+4·76	−1·41	−0·34	−2·98	−0·33	−6·05	+0·54	−1·09	−2·60	+3·93	−0·26	−4·59
	Jhattal	−0·05	+0·38	−1·59	−0·67	−1·46	−1·62	−5·35	−4·64	−3·41	+0·97	+1·95	−0·27	−15·76
	Garbetta	−0·23	+0·17	−1·46	−2·05	−0·96	+5·92	−1·24	−6·20	−2·52	−1·70	+1·82	−0·19	−8·75
24-Pergunnahs.	Diamond Harbour	−0·64	+0·11	−1·41	−1·05	+0·09	+8·58	−4·28	−1·34	−5·49	+0·80	+5·00	−0·23	−0·16
	Alipore Jail	−0·44	+1·13	−0·53	+0·64	−1·37	+2·94	−0·39	−5·71	−4·52	+0·28	+3·27	−0·33	−5·02
	Barrackpore	0·35	+0·25	−1·41	−0·98	−3·55	+4·85	−2·97	−4·22	+2·06	+3·41	+2·05	−0·30	−1·44
	Dum-Dum	−0·08	+1·26	−0·51	−1·37	−3·49	+9·71	−3·29	+0·53	−0·85	+3·56	+3·80	−0·00	+9·15
	Barraset	−0·37	+1·44	−1·21	−1·63	−3·75	+5·07	+0·61	−2·21	−3·15	+4·27	+4·90	−0·29	+2·80
	Busseerhat	−0·15	+0·42	−1·89	−1·51	−4·89	+3·03	0·13	−4·84	−0·09	+8·21	+2·78	−0·32	+1·12
Howrah	Howrah	−0·44	+1·37	−0·90	−0·85	−2·89	+7·28	−0·23	−3·41	−1·82	+2·40	+2·51	−3·37	+2·75
	Mohesreka (*Colooberiah*)	−0·09	+2·09	−0·94	−0·03	−4·42	+2·29	+3·21	−1·02	−3·76	+2·02	+1·16	−0·80	+0·21
Hooghly	Serampore	−0·15	+0·41	−1·07	−1·12	−2·97	+4·24	−2·70	−2·61	−0·12	+4·05	+2·34	−0·27	+0·13
	Hooghly	−0·27	−0·38	−1·57	−1·01	−3·85	−2·15	−4·19	−5·70	−0·86	−1·34	+2·21	−0·26	−18·40
	Jehanabad	+0·29	−0·09	−0·0·	−0·37	−3·54	+4·45	−3·91	−6·81	−5·05	−2·63	+2·99	−0·16	−17·61
Burdwan	Culna	+0·27	−0·71	−1·08	−1·35	−2·06	+2·99	−5·31	−6·19	+1·01	−1·63	+5·10	−0·21	−9·08
	Burdwan	+0·02	−0·41	−1·14	−0·87	−0·69	+2·37	−2·07	−6·99	+1·27	−2·06	+6·36	−0·17	−7·88
	Cutwa	+0·15	−0·58	−0·86	−1·49	−3·47	−2·58	−5·34	−4·88	−2·19	−1·34	+10·11	−0·10	−10·52
Bankoora	Bankoora	+0·18	−0·69	−0·84	−0·17	+0·36	+4·71	−2·80	−3·76	−1·97	−1·46	+8·72	−0·17	−2·67
	Bishenpore	+0·38	+0·80	+0·31	−0·55	−1·62	+5·01	+0·50	−7·37	+0·51	+3·06	+3·17	−0·34	+3·91
	Maliara	+0·30	+0·41	−0·43	−0·47	−0·58	+5·02	3·88	−5·98	+2·98	?	?	−0·31	−6·79?
	Khatra	−0·49	+1·01	−1·74	+0·95	−1·14	+0·35	−1·49	−1·01	−0·27	−1·61	+2·79	−0·42	+6·43
	Raipur	−0·32	−0·12	−0·72	+0·01	−2·58	+6·46	+2·83	−6·29	−3·82	+2·11	+3·29	−0·20	+3·65
Burrenoom	Bh. Seory	+0·66	+0·18	−0·11	−0·91	+0·61	+2·19	−1·03	−1·25	+2·14	−0·50	+3·78	−0·10	+3·97
	Hetampore	+0·85	−0·10	−0·04	−1·61	+2·02	+2·38	−5·88	−6·97	−2·64	−1·00	+4·58	−0·12	−8·25
	Rampore Haut	+1·95	+0·12	+0·88	−1·41	−0·55	+1·88	−0·90	−5·08	+1·58	−3·05	+2·26	−0·18	−3·83
	Kaneegunge	+1·10	−0·78	−0·17	−1·15	+1·93	+4·40	−1·13	−3·76	−0·11	−2·73	+7·12	−0·12	+4·60
Nuddea	Ranaghat	+1·26	−0·49	−0·53	−2·07	−2·91	+4·08	−1·74	−0·97	+4·03	+0·64	+3·30	−0·22	+4·06
	Kishnaghur	+0·65	−0·51	−0·81	−1·98	−4·33	−0·16	−1·72	−6·71	−2·73	+0·30	+8·56	−0·15	−10·17
	Choondanga	+0·63	−0·31	−0·95	−2·09	−5·00	−0·01	−1·35	−5·46	+0·16	−0·65	+10·15	−0·15	−6·47
	Meherpore	+1·84	−0·15	+0·05	+4·16	−2·77	+1·09	−2·95	−1·30	+3·58	+2·58	+5·06	−0·18	+11·31
	Kooshtea	+0·19	−0·35	−1·87	−2·18	−4·23	+3·51	−0·91	−2·82	+0·98	−2·89	+8·00	−0·19	−2·67
Khoolna	Satkira	+0·46	0	−3·01	−2·19	−4·47	−0·77	−2·93	−3·07	−2·14	+4·90	+3·80	−0·33	−7·49
	Bazirhat	−0·49	−0·53	−1·25	+0·19	−5·81	+1·32	−4·00	−3·40	−4·47	+5·43	+2·30	+0·04	−10·76
	Khoolna	−0·35	−0·77	−1·50	−0·48	−5·89	−1·26	−3·41	−2·94	+1·33	+7·38	+3·21	−0·14	−4·97
Jessore	Narail	+0·05	−0·16	−1·11	0·50	−3·37	+0·33	+0·10	−2·15	−1·81	+4·05	+4·60	−0·23	−0·20
	Jessore	−0·02	−0·75	−1·23	−1·82	−5·26	+5·05	−2·07	−4·89	+0·43	+2·62	+6·75	−0·19	−0·86
	Jhenidah	+0·31	−0·45	−2·04	−0·76	−3·40	−2·12	−2·32	−4·00	+1·08	−0·08	+8·66	−0·17	−5·29
	Magoora	+0·34	−0·67	−1·96	−1·05	−3·99	+4·11	−0·71	−1·11	−5·53	+3·46	+9·44	−0·16	+2·17
	Bongong	+0·12	−0·20	−1·22	−1·92	−4·41	+0·09	−0·02	−7·31	−3·87	+5·21	+8·61	−0·34	−10·26
Moorshedabad.	Kandi	+0·34	+0·04	−0·13	−1·56	+0·42	+6·76	−3·05	−2·84	+0·88	−3·19	+5·28	−0·25	+2·70
	Berhampore	+0·94	−0·05	−0·86	−1·92	+2·87	+0·54	−3·04	−4·24	−0·36	−3·89	+3·61	+0·12	−6·42
	Lalbagh	+1·78	+0·01	−0·70	−1·13	+0·78	−3·02	+1·84	−5·35	−0·96	−1·83	+4·35	+2·19	−5·13
	Azimgunge	+1·88	+0·06	−0·93	+0·13	+0·23	−0·10	+0·21	−6·86	+3·18	−4·32	?	?	−6·89?
	Jungipore	+2·83	+0·29	−0·89	+0·27	−1·53	+4·59	+2·35	−5·64	+4·70	−1·80	+8·65	−0·14	+7·41
	Lalgola	+1·75	+0·40	−0·80	−0·76	−0·71	+3·27	+3·58	−5·84	+4·25	−1·03	+1·58	−0·14	+8·72
EAST BENGAL.														
Chittagong	Cox's Bazar	−0·77	+0·01	−1·26	−2·53	−4·30	−7·78	−12·78	+9·13	+8·12	−0·41	−1·45	−0·23	−14·29
	Chittagong	−0·51	−0·29	−1·36	−1·15	−4·29	−4·46	−10·90	+3·91	−0·14	−2·19	+0·07	+0·14	−21·17
Chittagong Hill Tracts.	Rangamati	−0·56	+0·80	−2·22	+0·07	−3·26	−6·29	−2·64	−4·49	−4·19	−5·25	+8·57	−0·13	−24·89
	Rema	−0·68	+0·43	−1·66	−3·30	−3·65	−5·02	−2·48	−1·74	−1·92	−0·06	+2·08	+0·36	−16·76
Backergunge	Patuakhally	−0·77	+1·54	−1·46	−1·82	−2·79	−0·52	−1·30	+1·40	−2·39	+1·92	+0·85	−0·40	−5·77
	Perozepore	−0·44	−0·56	−1·34	+0·43	−4·43	+5·23	−3·37	−3·07	−6·81	+11·30	+0·90	−0·07	−3·14
	Burrisal	−0·09	+0·49	−1·60	−1·85	−4·05	+3·78	−4·57	+2·92	−2·06	+4·29	+1·15	+0·19	−2·05
	Bhola	−0·33	−0·02	−0·99	−2·01	−2·98	−0·76	−3·83	−2·12	+0·10	+1·40	+3·98	−0·29	−8·36
Noakholly	Noakholly	−0·54	+0·68	+0·27	−3·25	−3·37	+1·74	−0·74	−0·99	+1·93	−0·87	+1·79	−0·25	−2·70
	Fenny	−0·79	+0·26	−0·54	+0·30	−5·55	−10·08	+4·19	−9·43	−6·08	−3·20	−0·54	−0·44	−3·87
Furreedpore	Madaripore	−0·31	−0·31	−3·57	−1·93	−3·88	+4·07	−3·07	−1·43	−2·19	+5·88	+3·43	−0·07	−3·38
	Furreedpore	+0·36	−0·67	−2·42	−0·76	−3·51	+6·25	+0·12	−0·54	−2·49	−0·23	+6·75	−0·12	+0·94
	Goalundo	+0·57	−1·00	−2·14	−0·35	+0·09	+6·29	−2·49	−2·29	−3·06	−0·82	+7·54	−0·15	+2·21
Dacca	Munshigunge	−0·09	−1·16	−3·86	−1·54	−0·63	+4·24	−1·73	−1·48	−3·66	+8·82	+4·08	−0·31	−2·32
	Dacca	+0·04	−0·02	−2·52	−3·09	−2·05	+10·84	+1·59	−0·44	−1·45	+2·21	+2·91	−0·21	+7·25
	Naraingunge	−0·02	−0·12	−3·08	−1·90	+2·86	+6·13	−1·74	+4·44	−1·25	+3·46	+4·50	−0·29	+13·79
	Manickgunge	+1·25	−0·95	−1·99	−2·29	−1·43	+8·27	+2·93	+0·00	−1·89	+1·67	+4·93	−0·12	+11·39
Hill Tipperah	Agartola	−0·41	−0·60	−4·86	+1·99	−3·12	−2·03	−7·19	−8·98	−2·69	+3·92	+2·31	−0·39	−22·15
Tipperah	Comilla	−0·60	+0·37	−3·07	−0·20	−3·14	+3·49	−7·60	−9·03	−2·10	+2·20	+1·25	−0·17	−19·50
	Chandpore	+0·15	+0·15	−2·40	−3·40	−4·97	−4·28	−3·00	−5·94	−0·19	+4·69	+2·65	−0·36	−17·69
	Brahmunberiah	−0·38	−0·33	−4·56	+1·53	−5·02	+1·13	−0·90	−9·75	−3·40	+2·73	+1·22	−0·20	−17·93

District.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
EAST BENGAL —*concluded.*														
Mymensingh	Kishoregunge	+0·12	−0·68	−3·01	+2·86	−3·92	+2·20	+0·26	−0·53	+0·33	−0·30	+1·48	−0·30	− 1·46
	Atia	+0·65	−0·94	−1·45	−2·05	+6·07	+4·03	+5·09	−0·37	−2·27	−2·11	+4·67	−0·07	+ 6·25
	Mymensingh	+4·23	−0·98	−2·18	−0·65	−4·63	+4·32	+4·52	+6·19	+2·23	+2·78	+1·43	−0·12	+12·86
	Jamalpore	+1·41	−0·58	−1·46	−2·81	−4·29	+12·23	+1·03	−1·74	+8·04	+0·81	+0·73	−0·21	+13·63
	Netrokona	+0·16	−0·46	−2·29	+4·14	−1·79	+16·84	+12·97	+5·21	+2·14	+3·09	+2·04	−0·15	+43·90
NORTH BENGAL.														
Pubna ...	Pubna	+0·14	−0·49	−1·73	−0·85	−3·17	+3·73	−3·51	−5·61	−1·34	−2·76	+8·07	−0·07	− 7·49
	Serajgunge	+1·67	−0·81	−1·31	−1·84	+0·41	+2·40	+0·05	−1·29	−2·02	+3·91	+2·37	−0·01	+ 3·51
Bogra ..	Sherpore	+1·01	+0·19	−1·45	−0·95	−5·79	+6·41	−1·85	+2·74	+1·73	−0·35	+0·85	−0·32	+ 2·36
	Nowkhilla	+1·08	+0·30	−1·16	−0·65	−3·02	+8·47	−2·76	−2·96	+7·84	−3·52	+0·55	−0·16	+ 4·32
	Bogra	+1·50	−0·53	−0·88	−2·27	−7·64	+9·07	−0·43	−4·01	+7·50	−3·19	+0·44	−0·01	− 1·44
	Panchbibi	+2·91	+0·03	−0·90	−1·60	−6·99	+17·00	−4·05	−5·49	+7·02	+0·03	+0·41	−0·18	+ 8·25
Rajshahye ..	Beauleah	+1·49	+0·12	−1·17	−1·57	−3·31	+4·74	−2·10	−6·55	+0·89	−2·79	+2·17	−0·08	− 8·16
	Nattore	+2·10	−0·54	−0·93	−0·89	−6·23	+11·73	+2·25	−5·13	−1·81	−3·26	+2·98	−0·11	+ 1·17
	Naogaon	+2·04	+1·18	−1·37	−0·60	−4·61	+5·64	−0·32	−2·16	+4·82	−0·56	+0·72	−0·17	+ 5·03
Maldah .	Maldah	+3·25	−0·43	−0·85	−1·35	−2·59	+1·08	−2·40	−4·56	+8·93	−0·40	+0·62	−0·33	+ 0·97
	Chanchal	+1·63	+0·03	−0·42	−1·01	−4·67	−6·61	−3·21	−11·43	+1·73	−2·73	−0·10	−0·07	−26·86
Dinagepore ..	Mohadebpore	+2·71	−0·03	−0·66	−0·99	−5·39	+6·61	−2·00	−5·57	+2·78	−0·36	+0·51	−0·16	− 2·79
	Churamon	+2·47	+1·23	−0·43	−0·63	−4·49	−0·78	+1·84	−3·02	+5·92	−2·26	+0·24	−0·14	− 0·03
	Raigunge	+2·47	+0·81	−0·60	−1·12	−6·29	−0·15	−1·27	−1·03	+4·00	−2·29	−0·10	−0·14	− 5·69
	Dinagepore	+2·14	0	−0·70	−2·27	−6·88	+6·89	−3·17	−0·61	+5·61	−4·30	−0·21	−0·10	− 3·71
	Balooghat	+2·65	+0·22	−0·68	−0·95	−4·27	+6·72	−1·69	−2·20	+9·65	+0·98	+0·15	−0·22	+10·14
Rungpore ...	Bhawanigunge (*Gyabanda*)	+2·45	0	−1·46	−0·74	−4·96	+21·17	+1·07	+1·25	+7·68	−3·12	+0·07	−0·16	+24·15
	Rungpore	+2·31	+0·55	−0·75	−0·15	−3·06	+8·96	+0·76	−1·11	−1·24	−3·16	−0·36	−0·12	− 2·31
	Kurigram	+1·85	+0·30	−1·08	−1·59	−7·08	+12·24	+3·45	−1·43	+10·97	−4·18	−0·28	−0·24	+11·80
	Bagdogra (*Nilphamari*) .	+1·78	+0·71	−1·16	+0·21	−9·94	+3·62	+8·49	+4·28	−0·30	−3·15	−0·03	−0·19	+ 4·29
Julpigoree .	Julpigoree	+1·92	+0·58	−1·89	−2·83	−4·02	+4·69	+12·32	−2·74	−3·47	−3·90	+0·03	−0·08	+ 0·01
Cooch Behar	Dinhatta	+1·62	+0·76	−1·25	−2·04	−5·36	−2·28	+4·92	−1·61	+3·74	−2·82	+0·08	−0·19	− 4·43
	Cooch Behar	+2·19	+2·28	−1·78	−3·21	−3·97	−8·44	+19·12	+8·67	−5·27	−2·76	+0·29	−0·10	+ 6·79
	Mekligunge	+1·61	+2·19	−1·27	−2·02	−9·11	+9·23	+13·16	+6·83	−6·38	−2·87	+0·19	−0·16	+10·25
	Matabhanga	+1·38	+1·66	−1·18	−3·33	−2·04	−7·05	+27·87	−0·18	−11·20	−3·61	+0·18	−0·12	+ 2·37
Darjeeling Hill.	Buxa	+1·12	+1·78	+3·09	−5·89	−3·23	−6·48	+23·44	−4·90	−6·73	−3·67	+0·21	−0·56	− 1·82
	Silliguri	+1·18	+0·73	+0·37	−0·94	−4·14	+5·61	+14·10	−3·17	+5·11	−1·14	+0·95	−0·09	+18·57
	Darjeeling	+2·16	+1·61	−1·89	−0·45	−2·28	+7·33	+25·82	−6·87	−3·24	−3·51	−0·07	−0·21	+ 8·23
NORTH BEHAR.	Kalimpong	+1·63	+0·00	+0·02	−0·43	−1·26	+7·71	+10·36	−5·41	−0·34	−0·99	+0·01	−0·26	+11·7
Purneah .	Kissengunge	+1·36	−0·24	−0·66	−1·40	−3·24	+16·42	+13·75	−3·89	+11·24	−2·84	−0·07	−0·14	+30·39
	Arrareah	+1·08	−0·17	−0·62	−1·50	−4·53	+13·88	+3·45	+1·40	+3·89	−3·43	−0·06	−0·09	+13·80
	Purneah	+2·11	−0·16	−0·59	−1·40	−1·01	+0·55	+5·44	−5·20	+5·41	+2·25	−0·04	−0·15	+ 2·25
North Bhagulpore.	Maddapore	+3·70	+0·72	−0·36	−1·03	−2·66	+6·04	+5·29	−3·22	+7·15	−2·87	−0·06	−0·06	+12·59
	Soopool	+2·90	+0·02	−0·40	−0·88	−4·94	+5·51	+4·21	+8·03	+6·06	−2·38	−0·05	−0·12	+21·04
Durbhunga .	Tajpore	+3·54	+1·37	−0·16	−0·32	−0·80	+4·36	−2·21	−2·33	+2·69	−2·88	−0·07	−0·06	+ 3·11
	Durbhunga	+2·71	+0·24	−0·19	−0·89	−2·41	+3·04	+2·35	+1·87	+1·87	−2·28	−0·06	−0·17	+ 6·08
	Madhubani	+1·09	+0·46	−0·37	−1·06	−0·44	+5·60	+4·73	+2·19	+8·04	−2·48	−0·03	−0·07	+16·86
Mozufferpore	Sitamarhi	+3·40	+0·54	−0·42	−1·18	−2·32	+5·68	+7·61	+2·00	+1·47	−2·45	+0·29	−0·12	+14·30
	Mozufferpore	+2·55	+1·08	−0·31	−0·52	−1·91	+9·96	+0·85	−4·83	+5·65	−2·27	+0·04	−0·08	+ 9·57
	Hajipore	+1·27	+1·44	−0·28	−0·14	−0·82	+3·88	−3·09	−0·13	+3·95	−3·76	+0·06	−0·12	+ 2·23
Chumparun ...	Motihari	+3·11	+0·99	−0·47	−0·64	−1·93	+14·54	+13·86	−4·73	+9·47	−3·18	+0·54	−0·15	+30·43
	Bettiah	+1·12	+1·01	−0·23	−0·75	−1·39	+5·53	+3·66	−5·73	+4·05	−3·36	+0·72	−0·23	+ 4·98
Saran	Gopalgunge	+2·45	+1·22	+0·16	−0·22	−0·65	+0·12	−2·89	−5·32	+4·75	−4·59	+0·22	−0·16	− 4·91
	Sewan	+1·85	+0·53	+0·02	−0·27	−0·69	+5·87	−0·49	−1·26	−0·40	−3·81	+1·46	−0·14	+ 2·41
SOUTH BEHAR.	Chuprah	+1·38	+0·79	−0·04	−0·38	−1·17	+1·59	+3·93	−1·77	+2·83	−2·93	+1·00	−0·09	+ 4·15
Shahabad ..	Buxar	+0·54	+0·90	−0·33	−0·16	−0·80	+5·05	+5·89	+1·03	−1·43	−2·18	+2·50	−0·21	+10·68
	Dehree	−0·24	+0·78	+0·45	−0·11	−2·85	+2·86	−3·79	+6·62	−0·67	−0·55	+0·12	−0·57	+ 1·65
	Bhubhooah	−0·18	+0·31	+0·19	−0·14	−0·92	−3·16	−1·82	+4·05	+0·15	−2·00	+1·01	−0·35	− 2·87
	Sasseram	0	+0·18	+0·92	−0·17	−0·91	−1·90	−5·28	+3·01	−3·68	−2·45	+0·20	−0·28	−10·56
	Arrah	+0·81	+0·54	−0·31	−0·50	−0·63	+1·83	+0·96	+3·43	−3·20	−4·02	−0·03	−0·14	+ 0·64
Gya	Aurungabad	+0·04	+0·56	−0·11	−0·09	−0·70	−1·22	−3·17	+4·05	−3·69	−2·23	+0·15	−0·36	− 6·77
	Gya	−0·01	+2·63	+0·38	−0·32	−1·25	+5·02	−1·06	+0·01	−1·99	−1·34	−0·11	−0·19	+ 2·81
	Nowada	+1·42	+0·40	−0·12	−0·30	−1·77	+6·13	−1·09	−0·47	−1·98	−1·31	−0·12	−0·22	+ 0·63
	Jehanabad	+1·16	+1·28	−0·10	−0·15	−1·38	+2·26	−4·19	−0·22	−1·22	−2·98	+0·13	−0·18	− 5·58
Patna	Patna	+2·43	+1·05	−0·09	−0·27	+1·15	+7·57	−1·76	−0·51	+7·81	−2·76	0	−0·16	+13·48
	Dinapore	+1·41	+0·91	+0·15	−0·23	−0·91	+3·91	+1·86	−1·28	+3·78	−2·96	+0·11	−0·18	+ 6·57
	Behar	+1·22	+2·16	−0·54	−0·21	−0·58	+5·46	−2·49	+0·07	−0·90	−2·70	−0·08	−0·18	+ 1·37
	Barrh	+2·06	+2·28	−0·14	−0·12	+0·04	+3·41	−0·53	−3·73	−3·09	−1·62	−0·15	−0·12	− 0·50
Monghyr .	Beegoosarai	+2·59	+1·83	−0·09	−0·36	+0·16	−0·20	+3·88	−3·52	+0·38	−2·53	−0·21	−0·06	+10·81
	Monghyr	+1·85	+0·28	−0·33	−0·45	−1·38	+3·65	−3·65	+0·86	+3·10	−3·81	−0·26	−0·10	− 0·74
	Jamui	+1·77	+0·44	−0·26	−0·50	−0·13	+6·45	−1·72	−5·35	+1·80	−2·53	+0·12	−0·09	− 1·99
South Bhagulpore.	Bhagulpore	+1·53	+1·06	−0·39	−0·84	−1·06	+5·30	−0·36	−2·59	+2·05	−3·93	−0·18	−0·09	+ 1·99
	Banka	+2·75	+0·29	−0·34	−0·56	−1·30	+2·84	−0·41	−6·11	+2·51	−2·97	+0·11	−0·14	− 5·31
Sonthal Pergunnahs.	Rajmehal	+2·15	+0·36	−0·31	−1·04	−3·28	+4·01	−0·39	+2·03	+5·16	−1·31	+0·07	−0·06	+ 7·37
	Godda	+5·30	+0·34	−0·40	−0·49	+1·35	+9·46	−2·66	−7·70	+2·38	−0·40	+0·63	−0·13	+ 5·04
	Pakour	+2·29	+0·11	−0·53	+0·01	−2·43	+1·65	+7·59	−5·69	+6·98	+1·00	+0·74	−0·14	+15·53
	Nya Doomka	+1·47	+0·46	−0·53	−0·46	+0·53	+2·28	+4·00	−5·51	−1·56	+0·41	+2·30	−0·24	+ 3·10
	Deoghur	+1·08	−0·18	−0·51	−0·80	−2·44	−2·45	−2·29	−4·15	+1·59	−1·89	+1·34	−0·16	−10·34
CHUTIA NAGPUR.	Jamtara	+0·57	+0·01	−0·22	−0·27	−2·83	+1·33	−2·85	−4·58	+2·23	−0·76	+3·44	−0·14	− 4·07
Hazaribagh .	Pachamba	+1·06	+0·57	−0·47	−0·38	−0·49	+0·56	−5·56	+0·15	−3·37	−2·51	+1·20	−0·17	− 8·93
	Hazaribagh	−0·11	+0·18	+0·29	+0·07	−0·80	+2·12	−0·78	+0·37	−0·10	−0·03	+1·17	−0·33	+ 2·07
	Somtagursh	+0·26	+0·25	−0·77	+0·81	−1·43	−0·91	−0·74	−5·75	−0·51	−1·07	+0·76	−0·39	− 9·99
	Mahudi Hills	+0·28	−0·29	−0·61	+0·37	+0·03	+7·18	−1·89	−3·47	+0·33	−0·86		−0·27	
	Jhoomrah Hill	+0·55	+1·14	−0·65	Nil	−1·80	+0·91	−6·66	−6·18	−3·21	−3·43	+1·72	−0·29	−16·79
Lohardugga	Lohardugga	−0·60	+1·22	+0·07	+0·62	−1·83	+0·37	−4·50	+1·82	+0·16	+0·26	−0·04	−0·31	− 2·07
	Ranchee	−0·73	−0·27	−1·00	+0·08	−1·64	+2·68	+6·11	−2·17	+0·14	+0·71	+1·56	−0·21	+ 5·27
	Palamow	+0·60	−0·27	−0·10	−0·04	+0·34	−0·05	−5·43	−4·70	−1·30	+1·87	+0·18	−0·28	− 9·17
Singbhoom ...	Chyebassa	−0·52	−0·51	−0·89	+0·51	−1·86	+8·36	−5·21	−1·33	−5·57	+0·90	+2·30	−0·35	− 6·17
Manbhoom ...	Purulia	+0·56	−0·37	−0·70	+0·39	−0·78	+2·42	−0·57	−4·70	−0·36	−2·34	+2·32	−0·26	− 4·43
	Gobindpore	+0·26	−0·30	+0·03	−0·52	−0·67	+1·20	−3·51	−6·30	−0·32	−3·43	+1·48	−0·19	−13·23

METEOROLOGICAL OFFICE, BENGAL,
The 18th February 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th February 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fair.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour tension.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb.	9th	136·2	9·5	30 039	68·0	82·5	26·2	56·3	55·9	0·410	53·4	63	NNE, N and calm ...	47	Nil	Clear, ⌓.
,,	10th	134·5	8·4	·049	67·9	81·7	25·4	56·3	60·1	·417	53·9	65	SSE, NNW and variable.	47	,,	Chiefly clear, ⌓; ≡.
,,	11th	137·5	9·6	·052	66·8	81 3	27·0	54·3	57·7	·360	49·8	59	SE, NE by N and NNW.	66	,,	Clear, ⌓.
,,	12th	134·2	9·2	·009	65 5	81·1	30·4	50·7	57·4	·367	50·4	62	NNW and W ...	42	,,	Clear, ⌓.
,,	13th	135·5	8·6	29 963	68 1	82·6	27·9	54·7	60·0	·415	53·8	64	S by W and WSW...	59	,,	Chiefly Clear ⌓.
,,	14th	140·6	9·0	·893	70·6	84·2	25·7	58·5	65·4	·532	60·7	74	SSW and WSW ...	96	,,	Partially cloudy, ⌓; ≡.
,,	15th	134·3	7·2	·820	72·3	82·2	18·1	64·1	68·3	·644	66·2	82	SSW, SW by S and variable.	66	,,	Partially cloudy, ⌓; ≡.

		Inches.
The mean pressure of the seven days		29·975
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·951
		Hours.
The total number of hours of bright sunshine		61·5
The maximum possible number of hours of sunshine		79·1
		°
The mean temperature of the seven days		68·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office		72·2
The extreme variation of temperature		33·5
The maximum temperature		84·2
		Miles.
The highest velocity of the wind in one hour		9
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		67
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		69
		Inches.
The total fall of rain from 9th to 15th February 1890		Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		0·39
The total fall from 1st January to 15th February 1890		0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		1·04

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, ≡ fog.

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 17th February 1890.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree ...	30·041	30·054	—	Calm	0	83·2	13th Feb.	?	?	82·3	?	?	—	69 1
		Gopalpore ..	30·035	30·057	+·049	NNW	190·0	84·2	13th ,,	64·0	11th Feb.	81·8	68·1	75 0	+6·2	72·4
		False Point ...	30 040	30 062	+·022	NW	144 0	84 4	10th ,,	55 5	12th ,,	83 3	50 1	70 7	—1·9	66 4
	Cuttack	Cuttack ..	29·987	30·072	+·038	Calm	24·0	80·4	9th–14th Feb.	61·3	12th ,,	80·2	64 7	77·0	+0·2	68 8
	Balasore	Balasore ..	30 013	30 075	+·032	NNW	80·8	86·4	10th ,,	53·5	12th ,,	84 5	58·3	71 5	—0·3	62 7
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Sangor Island	30·040	30 070	+·038	North-Westerly	195 0	83 7	10th ,,	53·8	12th ,,	80 6	60 5°	70 7°	—1 0°	67 3
	Midnapore	Midnapore ..	29 991	30·079	+·029	N	28·9	90·3	14th ,,	54 2	12th ,,	87·2	57 9	72 6	+1·6	65 0
	24-Pergunnahs ... .. / Howrah ... .. / Hooghly	Calcutta	30·054	30 077	+·030	Calm	55 0	83 5	10th & 14th Feb.	50 8	12th ,,	81·6	55 6	68 6	—1·1	61·9
	Burdwan	Burdwan ..	29·968	30 075	+ 024	Calm	28·0	87·0	14th ,,	50·3	12th ,,	84 4	53·4	68 9	—0 7	60 9
	Bankoora	Bankoora ..	29·741	30·061	+·026	WNW	46·9	87·6	14th ,,	53·2	12th ,,	84 9	56 3	70 6	+1 3	61·9
	Beerbhoom ... ... / West Burdwan	Ranegunge	29 747	30 100	+·040	WNW	41·9	87·9	14th ,,	53·4	12th ,,	85·4	55·7	70·5	+1·4	60 9
East Bengal.	Moorshedabad	Berhampore	30 000	30·071	+ 026	NW	35 7	84·1	14th ,,	50 7	8th ,,	82 0	52 7	67·4	—0·4	56 8
	Nuddea	Krishnaghur	30·026	30·090	+·054	WNW	64·3	86·2	14th ,,	47·6	8th & 11th Feb.	83·3	50 0	66·7	+0·6	60 9
	Jessore ... .. / Khoolna	Jessore ..	30·031	30 166	+·023	Calm	29·8	83·2	11th & 14th Feb.	52 5	8th ,,	81 9	54 6	68·3	—0·1	58 6
	Chittagong	Chittagong	29 963	30 059	+·007	North-Westerly	45·7	84 6	11th–13th Feb.	53·2	8th ,,	83 3	55·4	69·4	+0·5	61·7
	Chittagong Hill Tracts	Demagiri ..	Observations not received													
	Backergunge	Barrisal ..	30·049	30·062	+·043	Calm	63·1	81·8	13th Feb.	53·6	10th & 12th Feb.	80·7	54 3°	67 4°	—1 0°	61 6
	Noakholly	Noakholly ..	30·032	30·077	—	N	80·5	85·3	13th ,,	49·0	8th ,,	82·2	51 7	66 9	—	64·4
	Furreedpore	Furreedpore...	30·031	30 073	+ 029	Calm	39·0	81 0	14th ,,	51·0	8th ,,	75 7	53·7	64·7	—3·1	59 0
	Dacca	Dacca ..	30 028	30 052	+·010	Calm & Northerly	65 3	85·6	14th ,,	52·3	8th ,,	82·0	54 7	68 4	—0·4	61 2
	Tipperah	Commillah ...	30·057	30·074	+·038	Variable	18·0	83·4	14th ,,	51·1	8th, 10th, & 11th Feb.	81·9	53·1	67 5	—0·8	61 3
	Mymensingh	Mymensingh ..	30·005	30·066	+ 020	North-Easterly	20 8	81·9	14th ,,	51·1	11th ,,	79·6	54·0	66 8	+1 4	59·2
	Bogra	Bogra ..	29·977	30·044	+·032	Calm	28·3	83·8	14th ,,	49·0	9th & 11th Feb.	81 5	51·6	66 6	+1·4	56 9
North Bengal.	Pubna	Serajgunge ..	30·006	30·055	+ 022	Westerly	11·9	83·9	14th ,,	46 2	11th ,,	81 7	50·1	65 9	+0 4	58·1
	Rajshahye	Rampore Beauleah.	29 993	30·067	+·050	N	6·5	82·8	14th ,,	47·9	8th ,,	80 5	51 8	66 2	+1·4	59 3
	Mallah	Maldah ...	29·995	30·081	—	Calm	51·4	83 6	14th ,,	46 2°	11th ,,	80 9	48 7	64 8	—	61·3
	Dinagepore	Dinagepore	29 932	30 061	+·015	SW	33·3	83 1	14th ,,	46 3	9th ,,	81 0	49 7	65·3°	+2 0	55 2
	Rungpore	Rungpore .	29 948	30 082	+·044	Calm	13 1	83·1	13th ,,	46 9	10th ,,	84·5	49·3	66 8	+3·6	57 0
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·700	30 065	+·027	NW	57·3	?	——	50 9	8th ,,		52 97			59·5
	Darjeeling Hill Tracts ..	Darjeeling ..	23·022	—	—	South-Westerly.	96·3	55·6	13th ,,	36 2	8th, 9th ,,	50·7	38 4	44·5	+6 8	42 6
	Purneah .. / North Bhagulpore ...	Purneah ..	29·932	30·069	+·029	South-Westerly	58·8	80 2	14th ,,	45·0	8th & 11th	79 1	47 6	63 4	+0 1	53 6
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ..	29 999	30 088	+·043	WNW	63·7	81·4	14th Feb.	?	?	79·7	?	?	?	57·6
	Chumparun	Motiharı .	29·884	30 078	+·040	Southerly	119·5	80·2	10th, 13th, 14th Feb.	44 9	8th & 11th	78 3	47 8	63 1	+2·1	54·2
	Saran	Chupra .	Observations incomplete.													
Behar.	Shahabad	Dehree ..	29 728	30·105	+·051	SW	140·6	86·3	14th ,,	50 5	11th ,,	83 1	55 9	69 5	+3·9	60·7
		Buxar ..	29·860	30 099	+·040	N-Wly	85 1	85 9	14th ,,	47 9	11th ,,	82·7	52·0	67 0	+3 6	58 4
		Arrah* ...	29·875	30 094	+·033	WNW	84·5	85 3	14th ,,	46 9	11th ,,	84·0	50 5	66·3	+3 1	57·0
South Behar.	Gya	Gya ..	29 760	30·102	+·047	S	107·2	86·8	14th ,,	52·4	8th ,,	83 1	55·7	69 4	+2 0	60 6
	Patna	Bankipore ..	29 892	30 087	+·030	Westerly	57·4	81·2	14th ,,	48 4	11th ,,	80 2	51·8	66 0	+1·9	58 7
	South Bhagulpore ... / Monghyr	Bhagulpore ...	29 895	30 067	+·043	Calm	?	82·8	10th & 14th Feb.	48·0	11th ,,	81 5	51 4	66 4	+1·9	57 9
	Sonthal Pergunnah ..	Doomka ..	29·859	30 091	—	NW	55·6	83·1	14th ,,	48·6	11th ,,	82·8	50 8	66 8	—	58·7
Chutia Nagpur.	Hazaribagh	Hazaribagh	28 950	30 105	+·048	North-Westerly	154·1	83 3	14th ,,	49 8	11th ,,	79 8	55 0	67 4	+2·6	63 4
	Lohardugga ... ... / Manbhoom	Ranchee ..	27 886	30 095	+·045	Calm	94·0	83·5	14th ,,	47·3	11th ,,	80·9	53·6	67·3	+2·0	62·3
	Singhbhoom	Chyebassa ...	29·295	30·098	—	Calm	25·5	88·4	14th ,,	51·5	12th ,,	85·2	56·1	70 7	—	62·5

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last

The *humidity* of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number

are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past

stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 14th of February 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
90	2·6	Nil	Nil	0·23	Nil	0·38	−0·38	74·94	56·01	+18·93	0·0	0·7	Pooree ...		
74	·7	Nil											Gopalpore ...	Pooree	Orissa.
91	2·7	Nil											False Point ...		
77	2·4	Nil	Nil	0·22	Nil	0·43	−0·43	66·39	52 41	+13·98	0·0	0 7	Cuttack ...	Cuttack	
83	0	Nil	Nil	0·26	Nil	0·59	−0·59	49·96	53·90	−3·94	0·0	0·7	Balasore ...	Balasore	
90	1·6	Nil	Nil	0·35	Nil	0·92	−0·92	58·57	63·29	−4·72	0·0	0·6	Sangor Island	South-West Midnapore / South 24-Pergunnahs	
57	0·7	Nil	Nil	0·17	Nil	0·60	−0·60	40·39	52·17	−8·78	0·0	0·5	Midnapore ...	Midnapore	
85	1·3	Nil	Nil	0·29	Nil	0 80	−0·80	54·10	52·46	+1·64	0·0	0·8	Calcutta ...	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	South-West Bengal.
60	0·7	Nil	Nil	0·25	Nil	0·67	−0 67	43·89	47·38	−3·49	0·0	0·6	Burdwan ...	Burdwan	
60	1·1	Nil	Nil	0·30	Nil	0·42	−0·42	55·93	52·70	+3·23	0·0	0·6	Bankoora ...	Bankoora	
55	0·6	Nil	Nil	0·33	Nil	0·63	−0·63	52·46	52 25	+0·21	0·0	0·5	Ranegunge ...	Beerbhoom ... ... / West Burdwan ...	
84	1·1	Nil	Nil	0·20	Nil	0·48	−0·48	51·17	51·03	+0·14	0·0	0·5	Berhampore ...	Moorshedabad ...	
70	0·6	Nil	Nil	0·24	Nil	0·64	−0·02	51 61	49 76	+1·85	0·0	0·5	Krishnaghur ...	Nuddea	
90	1·4	Nil	Nil	0·26	Nil	0·65	−0·65	54 75	55 87	−0·69	0·0	0·5	Jessore ...	Jessore ... ... / Khoolna	
84	0·6	Nil	Nil	0·29	Nil	0·41	−0 41	100 35	114·19	−13·84	0 0	0·5	Chittagong ...	Chittagong	
			Nil	0 29	Nil	0·48	−0 48	65·17	82·08	−16·91	0·0	0·7	Demagiri ...	Chittagong Hill Tracts	
83	0·7	Nil	Nil	0·32	Nil	0·62	−0·62	78·41	77 63	+0·78	0·0	0 7	Barrisal ...	Backergunge	
77	0	Nil	Nil	0·34	Nil	0 64	−0·64	90·82	107·75	−16 93	0·0	0·7	Noakholly ...	Noakholly	
83	0 4	Nil	Nil	0·24	Nil	0 61	−0·61	61·22	55·33	+5·89	0·0	0·5	Furreedpore ...	Furreedpore	East Bengal.
74	1·1	Nil	Nil	0·34	Nil	0·69	−0·69	76·19	60·29	+15·90	0·0	0·7	Dacca ...	Dacca	
84	0·4	Nil	Nil	0·42	Nil	0 65	−0·65	56·63	69·96	−13·34	0·0	0·8	Commillah ...	Tipperah	
88	0·6	Nil	Nil	0·37	Nil	0·65	−0·65	88·78	67·94	+20 84	0 0	0 7	Mymensingh ...	Mymensingh	
77	0	Nil	Nil	0 28	Nil	0·47	−0·47	65·62	57·70	+7·92	0·0	0 6	Bogra ...	Bogra	
81	0·1	Ni	Nil	0 32	Nil	0·62	−0·62	55·37	53 97	+1·40	0·0	0 6	Serajgunge ...	Pubna	North Bengal.
86	0·1	Nil	Nil	0·21	Nil	0·44	−0·44	54·35	54·32	+0 03	0·0	0 4	Rampore Beauleah	Rajshahye	
68	0	Nil	Nil	0·17	Nil	0·35	−0 35	39·76	54·57	−14 81	0 0	0·5	Maldah ...	Maldah	
81	0	Nil	Nil	0·21	Nil	0·27	−0·27	57·49	57·67	−0 18	0·0	0·6	Dinagepore ...	Dinagepore	
87	0	Nil	Nil	0·20	Nil	0·26	−0 26	85 87	74·09	+11·78	0·0	0·6	Rungpore ...	Rungpore	
88	0	Nil	Nil	0·16	Nil	0·19	−0·19	117·73	111·44	+6·29	0·0	0·5	Julpigoree ...	Julpigoree ... ... / Cooch Behar	
88	4·9	0·01	Nil	0·19	Nil	0·31	−0·31	133·46	121·68	+11 78	0·0	0·8	Darjeeling ...	Darjeeling Hill Tract	
91	0	Nil	Nil	0·25	Nil	0·37	−0·37	75·00	59·05	+15·95	0·0	0·6	Purneah ...	Purneah ... ... / North Bhagulpore ...	North Bengal.
			Nil	0·18	Nil	0·29	−0·29	48·83	43 83	+5·00	0·0	0 6	Mozufferpore ...	Mozufferpore	
73	0	Nil	Nil	0·20	Nil	0·31	−0·31	52·11	45·03	+7 08	0·0	0·6	Durbhunga ...	Durbhunga	
80	0·6	Nil	Nil	0·16	Nil	0·29	−0·29	63·96	47·08	+16 88	0·0	0·5	Motihari ...	Chumparun	
			Nil	0·18	Nil	0·24	−0 24	40·13	43·23	−3 00	0 0	0·5	Chupra ...	Sarun	
85	0	Nil											Dehree ...		
86	0	Nil	Nil	0·13	Nil	0·27	−0·27	40·07	40·35	−0·28	0·0	0 5	Buxar ...	Shahabad	
63	0	Nil											Arrah ...		
91	0	Nil	Nil	0 10	Nil	0·28	−0·28	37·07	41 90	−4·83	0·0	0·4	Gya ...	Gya	South Behar.
53	0	Nil	Nil	0·15	Nil	0·34	−0·34	43·49	41 66	+1·83	0·0	0·5	Bankipore ...	Patna	
84	0	Nil	Nil	0·13	Nil	0·30	−0 30	42·43	43·47	−1 04	0·0	0·4	Bhagulpore ...	South Bhagulpore ... / Monghyr	
62	0	Nil	Nil	0·11	Nil	0·33	−0·33	54·15	51·12	+3·03	0·0	0·4	Doomka ...	Sonthal Pergunnahs ...	
38	0	Nil	Nil	0·25	Nil	0·37	−0·37	43·03	50·83	−7·80	0·0	0·6	Hazaribagh ...	Hazaribagh	
48	0·3	Nil	Nil	0·23	Nil	0·46	−0·46	44 34	49·59	−5·25	0·0	0·6	Lohardugga ...	Lohardugga ... ... / Manbhoom	Chutia Nagpur.
			Nil	0·20	Nil	0·70	−0·70	38·30	47·62	−9·26	0·0	0 6	Ranchi ...		
66	1·0	Nil	Nil	0·21	Nil	0·58	−0·58	48·76	52·16	−3·40	0·0	0·7	Chyebassa ...	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of February 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 18th May 1889.	Average rainfall from 18th May to date.
			Saturday, 8th February.	Sunday, 9th February.	Monday, 10th February.	Tuesday, 11th February.	Wednesday, 12th February.	Thursday, 13th February.	Friday, 14th February.	Number of rainy days.	Rainfall of week.				
Orissa ..	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	90·71	51·79
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	78·57	56·85
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	65·80	40·33
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	77·00	64·26
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Cuttack	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	74·40	47·31
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	52·43	49·84
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	75·18	56·80
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	72·24	53·67
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	57·64	54·13
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore ..	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	55·04	53·00
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·75	57·66	52·45
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	46·05	51·56
		Balasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·81	48·61	58·75
		Jellasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	59·59	54·49
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	54·79	54·17
South-West Bengal.	Midnapore ..	Contai ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·83	58·18	62·10
		Sangor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	56·74	68·00
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·82	49·60	52·02
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	46·26	49 41
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	43 30	55·09
		Kukrahaty ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·84	?
		Bhagwanpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·73	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·01	63·79	59·55
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·85	?
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·85	52·87	56·70
		Barrackpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·86	53 12	50·73
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·69	65·43	52·39
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·86	58·71	50·83
		Bussirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·75	62·41	55·29
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·60	59·64	52·21
		Mohesreka ... (*Ooloberiah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·62	55·04	52·23
	Hooghly ..	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	55·61	50·97
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·85	57·53	49·00
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·92	61 61	55·97
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	41·32	44·98
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 61	47·25	48·45
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·74	48·11	49·53
		Ranegunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	55·90	49·85
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·82	50·86	52·01
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 41	57·49	52·39
		Mahara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·98		53·29
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	56·91	54·90
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·44	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59 17	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·44	?
	Beerbhoom	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·66	59·06	54·27
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	47·07	54·89
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 42	47·74	51·96
		Nolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·04	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53 10	?
	Nuddea ..	Ranaghat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	50·10	47·63
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·71	42·95	46 75
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 63	49·86	51·63
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	53·15	48·06
		Kooshtea ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	56·00	55·02
	Khoolna ..	Satkhira ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	54·54	55·76
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·90	55 48	52·49
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	56·84	55·40
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	52·01	48·68
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	53·90	55·03
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	50·74	53·99
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	56·90	49·71
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·66	47·64	51·43
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	55·36	51·34
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·56	46·28	51·56
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	47·13	51·20
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	?	51·76
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	55·01	49·63
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	59·03	51·84
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·29	?
		Akriguri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·06	?
		Pathabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 24	125·59	126·05
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	77·08	95·00
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·66	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	65·13	84·47
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	67·20	80 74
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·70	87·66	88·55
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·79	73·64	70·81
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	73·21	68·34
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	80·09	82·32

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of February 1890—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 8th February.	Sunday, 9th February.	Monday, 10th February.	Tuesday, 11th February.	Wednesday, 12th February.	Thursday, 13th February.	Friday, 14th February.	Total: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi* ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·31	?
		Bauphal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	93·12	?
	Noakholly ...	Noakholly	......	......	......	......	......	......	......	Nil	Nil	Nil	0·60	102·58	108·40
		Fenny	......	......	......	......	......	......	......	Nil	Nil	Nil	0·68	79·03	107·40
		Harishpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	84·32	?
		Ramganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	80·75	?
	Furreedpore	Madaripore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	62·98	56·01
		Furreedpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·62	65·60	56·88
		Goalundo ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·77	58·05	58·71
	Dacca ...	Munshigunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·70	77·51	70·78
		Dacca ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·63	76·45	59·01
		Naraingunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·87	81·14	60·65
		Manickgunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·56	69·67	50·56
		Joydebpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	68·55	?
	Hill Tipperah	Agartola ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·68	44·38	62·23
	Tipperah ...	Comilla ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·60	62·97	76·71
		Chandpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·51	65·97	76·30
		Brahmunberia	......	......	......	......	......	......	......	Nil	Nil	Nil	0·83	53·12	62·54
		Ramchandrapore.	......	......	......	......	......	......	......	Nil	Nil	Nil	?	60·83	?
		Nasirnagar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	32·39	?
		Daudkandi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	58·78	?
		Kasba ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	62·44	?
		Laksham .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·48	?
	Mymensingh..	Kishoregunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·61	70·80	70·73
		Atia (*Tangail*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·66	62·60	50·00
		Mymensingh	......	......	......	......	......	......	......	Nil	Nil	Nil	0·66	97·94	74·04
		Jamalpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·84	80·01	65·00
		Netrokona ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	120·47	73·15
		Subornakhali	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	150·28	?
		Sherepore Town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	88·17	?
		Dewanganj .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·08	?
NORTH BENGAL.	Pubna ...	Pubna ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	50·20	54·14
		Seraigunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·75	60·51	53·61
	Bogra ...	Sherepore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	62·67	57·88
		Nowkhilla ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	62·44	54·00
		Bogra ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·62	71·33	61·21
		Punchbibi	......	......	......	......	......	......	......	Nil	Nil	Nil	0·37	65·98	56·00
	Rajshahye ...	Beauleah	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	46·34	53·40
		Nattore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·63	58·81	55·55
		Naogaon	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	57·87	51·61
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	30·72	?
		Manda .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·27	?
	Maldah ..	Maldah	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	50·53	52·05
		Chanchal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·37	28·96	57·08
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·77	?
	Dinagepore ..	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·29	53·63	56·68
		Churamon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·25	51·82	52·83
		Raigunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·27	52·37	58·10
		Dinagepore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·35	68·33	63·77
		Balloorghat	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	61·29	51·71
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	Nil	?	87·81	?
	Rungpore ..	Bhawanigunge (*Gyabanda*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·31	88·30	61·97
		Rungpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	74·98	71·78
		Kurigram ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	91·62	73·53
		Bagdogra (*Nilphamari*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	88·49	85·44
		Ulipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	79·10	?
	Julpigoree ...	Julpigoree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·18	123·45	117·18
		Alipore Duar	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	128·23	?
		Debiganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	90·94	?
		Bhagatpore (Nayrakatta).	......	......	......	......	......	......	......	Nil	Nil	Nil	?	139·22	?
	Cooch Behar	Dinhatta	......	......	......	......	......	......	......	Nil	Nil	Nil	0·22	98·83	90·61
		Cooch Behar ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	125·89	118·49
		Mekligunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·19	132·40	101·93
		Matabhanga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·16	118·03	111·80
	Darjeeling Hill.	Buxa ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	192·37	193·24
		Silliguri ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·08	121·02	108·48
		Darjeeling ..	0·01	......	......	......	......	......	......	1	0·01	0·01	0·41	128·28	109·16
		Kalimpong	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	92·15	85·31
		Kurseong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	170·23	?
NORTH BEHAR	Purneah ...	Kissengunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	103·67	70·77
		Arrareah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	70·75	64·09
		Purneah .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	63·47	61·99
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Salarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Matiari ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Kaliaganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	60·85	49·93
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	67·20	48·50
		Protabganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	88·16	?
	Durbhunga ..	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	42·57	43·51
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	50·24	46·19
		Madhubani ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·31	63·56	43·39
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·96	?
		Roshera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·22	55·45	45·36
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·3[illegible]	48·47	45·88
		Hajipore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·34	42·57	[illegible]
		Paru ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·49	?
		Mahua ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·02	?
		Sruhar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Papri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	48·14	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of February 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 8th February.	Sunday, 9th February.	Monday, 10th February.	Tuesday, 11th February.	Wednesday, 12th February.	Thursday, 13th February.	Friday, 14th February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date
North Behar —concluded	Chumparun...	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	73·88	45·16
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	58·57	43·45
		Bagaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·24	?
		Burhurwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	35·48	43·85
		Sewan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	44·20	44·31
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	40·74	40·86
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	47·44	38·86
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	43·60	40·13
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	38·16	41·33
		Sasseram ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	39·41	41·05
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	42·69	40·64
		Mohanish	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	35·42	43·11
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	39·85	43·01
		Nowadah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	39·59	40·56
		Jehanabad ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	33·40	40·43
		Arwel .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Daudnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·69	?
		Sherrghati .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	?
		Rajouli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	?
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna .	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	51·49	42·38
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	45·53	41·78
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	41·08	42·31
		Barrh ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	38·83	40·13
		Buckram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·28	?
		Hilsa .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·21	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	47·62	40·57
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	41·07	46·38
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 34	39·46	43·38
		Gagri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	?
		Shekhpura .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·31	?
	South Bhagulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	45·06	42·32
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	38·54	44·05
		Kalgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·97	?
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmahal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	39·90	39·47
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	49·04	47 85
		Pakour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	78·59	56·64
		Nya Dumka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	56·72	53·70
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	40·40	51·13
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	45·21	49·38
		Mohagama	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	58·41	?
		Nanihat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·87	?
Chutia Nagpore.	Hazaribagh	Pachamba (*Goridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	38·90	47·96
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	49·10	47 67
		Somtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	30·24	47·14
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26		48·36
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 35	49·00	48·18
		Barki ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·36	?
		Chutra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·04	?
		Karagdeha .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·35	?
		Ramghar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Lohardugga ...	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	48·24	51·71
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·75	55 61	53·91
		Palamow	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	34·16	44·71
		Sulia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
		Balumat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hossenabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Gurwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38 77	?
	Singbhoom	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	46·76	42·29
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·80	?
		Ghatsilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	?
		Raharagura...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	43·32	49·71
		Gobindpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·67	53·19	45·62
		Kashinathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Jhalda ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·42	?
		Oass .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	5 8·56	?

Explanation.—Indicates that no rain has fallen If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 18th February* 1890.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 14TH FEBRUARY 1890.

In the report on the meteorology of the previous week it was remarked that conditions had been fairly normal, but that towards the close of that period, the northerly wind current blowing over Bengal was beginning to fall off in force, and light southerly winds and calms were being reported at the southerly stations; so that there was a decided tendency for humidity and temperature to rise. At the commencement of the present week, that is on the 8th, the very light northerly wind current continued, pressure rose, and became generally about a twentieth of an inch above the normal, while temperature also rose distinctly and became on the whole nearly normal; though the western stations recorded temperatures in excess and the eastern stations were in defect of the normal. Conditions remained practically unchanged on the 9th, except that pressure and temperature had again risen slightly, so that generally on this day both temperature and pressure were in excess of the normal On the 10th, winds became less regular in direction, and at some of the southern and western stations south-westerly winds were blowing, pressure and temperature again continued to rise, and were both very considerably in excess of the normal, while also the southerly winds brought up considerable amounts of moisture to the province. On the 11th rather variable and light winds were reported in most districts, and pressure continued to rise at almost all stations; but in the case of temperature there was a rather rapid fall, particularly in Behar, the fall in the mean temperature in several cases in this district equalling from 3° to 5°; but notwithstanding this, both temperature and pressure were both generally distinctly in excess of the normal. On the 12th a rapid fall of pressure commenced, amounting generally to about a twentieth of an inch, and on this date the fall of temperature had spread from Behar to South Bengal and Orissa, where on this day temperature was 2° to 3° below the normal, though in other parts of the province there was a distinct excess. On the 13th variable and light winds were generally reported, pressure again fell rapidly, the fall averaging about three-hundredths of an inch, while temperature had risen over the greater part of the province. On the 14th southerly winds were reported over a considerable part of the province, pressure again fell rapidly, the fall exceeding a twentieth of an inch at many stations, and thus became from about a twentieth to nearly a tenth of an inch below the normal over a considerable part of the province; temperature also again rose and became from about 2° to 7° in excess of the normal for the day, the excess at such stations as Arrah, Buxar, and Dehree averaging more than six degrees.

It will thus be seen that though there have been no very large changes in the meteorological conditions from day to day during the week yet there has been a slow but steady tendency towards the disappearance of the north-east monsoon or cold weather conditions, and to the gradual establishment of the conditions which accompany or immediately precede the transition conditions which obtain between the hot and cold seasons. Throughout the week, therefore, the general tendency has been towards increasing temperature accompanied by rather high humidity at the southern stations and for the gradual establishment of southerly winds over the same area.

Pressure.—Nothwithstanding the low pressures recorded at the close of the week, the mean pressure for the period has been in excess of the normal by amounts which average between two and four hundredths of an inch, this excess pressure being fairly equally distributed over the whole province.

Temperature—Has on the average of the whole week been about 3° in excess of the normal in South Behar and Chutia Nagpur, about a degree above the normal in North Behar, and about 2° above it in North Bengal; while in East and South-West Bengal and in Orissa the average mean temperature for the week has been nearly normal.

The actual temperatures during the week, the range from day to night, and their variations from their normal values are best seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with their normal values. It will be seen that the day temperatures for the week have been generally rather largely in excess of the normal, while the night temperatures have been more nearly normal, and in some cases even below it:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 14th February 1890.

	Normal mean maximum temperature for the week ending 14th February.	Actual mean maximum temperature for the week ending 14th February 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 14th February.	Actual mean minimum temperature for the week ending 14th February 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 14th February.	Actual mean daily temperature for the week ending 14th February 1890.	Variation of actual mean from the normal.
Cuttack	83 6	89·2	+0·6	64·5	64 7	+0·2	76·5	77 0	+0 5
Calcutta	80 3	81·8	+1·5	59 2	55·6	—3·6	69 7	68·8	—1·1
Dacca	80·8	82·0	+1·2	56·9	54 7	—2·2	68·8	68·4	—0 4
Burdwan	81 7	84 4	+2·7	57 4	53·4	—4·0	69·5	68·9	—0 6
Patna	76 0	80 2	+4·2	51·8	51 8	+0 5	63 6	66 0	+2 4
Gya	75·8	83 1	+3 3	55 4	5·7	+0·3	67·6	69 4	+1 8
Purneah	76 7	79 1	+2 4	49·5	47 6	—1 9	63·1	61·4	+0 3
Hazaribagh	76·0	78 8	+3·8	52·7	55 0	+2·3	64·3	67 5	+3 1
Darjeeling	43 9	50·7	+6·4	31·6	38 4	+6·8	37·7	44 5	+6·8

Rainfall.—Except for a few drops of rain at Darjeeling on the 8th, the whole province has been rainless throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of February 1890 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average	Normal average.
Orissa	89·4	53·5	84·2	62·6	73·6	− 0·4	Nil	0·24	−0·24	0·0	0·6	−0·6	Nil	0·48	62·10	53·94
South-West Bengal ...	90·3	47·8	83·5	55·2	69·4	+0·2	Nil	0·26	−0·26	0·0	0·5	−0·5	Nil	0·65	52·81	52·59
East Bengal	84·6	49·0	80·8	53·8	67·3	−0·4	Nil	0·34	−0·34	0·0	0·6	−0·6	Nil	0·62	76 56	74·90
North Bengal*	83 9	46·2	80·0	50·2	65·6	+1·8	Nil	0·21	−0·21	0·0	0·5	−0·5	Nil	0·33	73·54	70 76
North Behar*	87·4	44·9	79·0	47·7	63·3	+1·1	Nil	0·20	−0·20	0·0	0·5	−0·5	Nil	0·31	57·89	49·10
South Behar	86·3	46·9	82·1	52·6	67·3	+3·0	Nil	0·12	−0 12	0·0	0·4	−0·4	Nil	0·29	44·16	44·15
Chutia Nagpur	83·5*	47·5*	80·4*	134·3*	67·4*	+2·8*	Nil	0·24	−0·24	0·0	0·6	−0·6	Nil	0·47	43·08	50·04

* Julpiguri, Chupra and Chyebassa not included.

Meteorological Office, Bengal ; A. Pedler,
The 18th February 1890. *Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th February 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Feb. 1890 ...	9th ...	30·090	70·0	83·1	26·2	56·9	74·6	63·5	·440	55·4	52	Nil
,, ,, ...	10th ...	·140	69·9	82 5	25·2	57·3	74·6	64·6	·477	57·6	56	.....
,, ,, ...	11th ...	·144	68 6	82·1	27·1	55·0	73·6	60·7	·360	49·9	43	.....
,, ,, ...	12th ...	·097	67·4	81·9	29·0	52·9	70·8	60·2	·382	51·5	51	.....
,, ,, ...	13th ...	·058	70·0	84·0	28·1	55·9	74·6	63 5	·440	55·4	52	.....
,, ,, ...	14th ...	29·904	73·4	85·9	25·0	60·9	75·4	67·6	·573	62 8	65	.....
,, ,, ...	15th ...	·926	74·8	84·7	19·8	64·9	72·6	67·6	·510	59 5	76	.....

	Inches.
The mean 10 A.M. pressure of the seven days	30·060
	°
The mean temperature of the seven days	70·6
The extreme variation of temperature	33·0
The maximum temperature	85·9
	%
The mean 10 A.M. relative humidity of the seven days	56
	Inches.
The total fall of rain from 9th to 15th February 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 17th February 1890.

MEMORANDUM.

THE birth and death returns from the principal Municipalities in Bengal afford the following results for the week ending 1st February 1890 :—

1. Births and deaths were registered in the proportions, respectively, of 21·7 and 23·7 per 1,000 of population, against 22·8 and 18·5 per 1,000, respectively, during the preceding week ending 25th January, indicating a falling off in the registration of births and a large increase in that of deaths.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.

	Ratio per *mille.*
Arrah	41·9
Naraingani	37·3
Darjiling	37·0
Serampore	35·3
Bhagulpore	35·3
Comillah	34·7
Chupra	34·2
Monghyr	33·4

Deaths.

	Ratio per *mille.*
Poori	100·7
Serampore	58·9
Jessore	55·1
Hughli and Chinsurah ...	44·3
Naraingani	41·4
Comillah	38·5
Utterpara	37·7
Howrah	33·8
Burdwan	33·6
Midnapore	31·0
Gya	30·7

3. The following table shows that, as compared with the results of the preceding week, there was a noticeable increase in the death-rates from fever and the maladies classed under the head of "Other causes," but only fractional differences in the case of the other diseases :—

	Ratio per *mille* during the weeks ending—	
	1st February 1890.	25th January 1890.
Cholera	2·2	1·8
Small-pox	·6	·3
Fever	9·3	7·9
Bowel-complaints	3·9	3·3
Injury	·4	·5
Other causes	7·3	4·7

4. Of the diseases above named, cholera, fever, bowel-complaints and "other causes" proved conspicuously fatal in the following Municipalities :—

Cholera.

	Ratio per *mille.*
Poori	39·8
Naraingani ...	16·6
Serampore ...	9·8
Howrah ...	3·4
Gya ...	2·7

Fever.

	Ratio per *mille.*
Jessore ...	49·0
Comillah ...	30·8
Poori ...	21·0

Bowel-complaints.

	Ratio per *mille.*
Naraingani ...	16·5
Serampore ...	13·7
Hughli and Chinsurah ...	13·1
Burdwan ...	10·7

Other causes.

	Ratio per *mille.*
Serampore ...	27·5
Midnapore ...	17·0
Gya ...	13·7
Chittagong ...	11·7
Poori ...	10·5

Small-pox continued to rage with virulence in the Poori Municipality, yielding a death-rate of as much as 21 per 1,000 of population.

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	26·4
Females	20·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	130

According to Class.

	Ratio per *mille.*
Christians	22·4
Hindus	24·9
Mahomedans ...	20·8

According to Age.

	Ratio per *mille.*
Under 1 year ...	147·5
1 and under 5 years ...	26·3
5 „ 10 „ ...	10·8
10 „ 15 „ ...	9·2
15 „ 20 „ ...	18·0
20 „ 30 „ ...	12·6
30 „ 40 „ ...	16·3
40 „ 50 „ ...	23·3
50 „ 60 „ ...	23·5
60 years and upwards ...	79·1

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 17th February 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 1st February 1890.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS							MORTALITY ACCORDING TO—																			
												Disease															Sex.				
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.												
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	15,863	16,017	34,080	6	7	13	9·1	10·7	19·8	85	..	...	9	7	...	6	22	...	...	13·7	10·7	..	9·1	33·6	22·9	9	13	25·9	43·2	59
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	4	11	10·8	6·2	17·0	175	...	...	4	5	...	11	20	...	...	6·2	7·7	..	17·0	31·0	12 4	11	9	33·8	28·1	118
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	7	5	12	11·5	8·2	19·7	140	2	...	11	8	1	5	27	3·3	...	13·1	13·1	1·6	8·2	44·3	36·1	16	11	52·5	36·1	144
Serampore ...	Serampore ...	13,559	12,937	26,496	9	9	18	17·6	17·6	35 3	100	5	1	3	7	...	14	30	9·8	2·0	5·9	13·7	...	27·5	58·9	25·5	21	9	80·5	36·2	222
	Utterpara	3,046	2,464	5,510	1	.	1	9·4	..	9·4	No female birth.	...	...	...	2	...	2	4	...	..	...	18·8	...	18·8	37·7	18·9	2	2	34·1	42·2	81
Howrah ..	Howrah	53,153	37,660	90,813	24	16	40	13·7	9·2	22·9	150	6	...	19	17	1	16	59	3·4	...	10·9	9·7	·6	9·2	33·8	18·9	41	18	40·1	24 9	166
	Bali	7,836	6,979	14,815	2	3	5	7·6	10·5	17·8	66	...	...	5	..	...	2	7	...	...	17·8	.	...	7·0	24 6	14 6	6	1	39·8	7·5	557
Nuddea ..	Kishnaghur ...	13,363	14,214	27,477	6	5	11	11·8	9 5	20 8	120	1	...	8	1	...	2	13	1·9	...	15·1	1·9	...	3·8	22·7	13·2	8	4	31·4	14·8	221
	Ranaghat	4,028	4,655	8,683	2	.	2	12·0	..	12·0	No female birth.	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6 0	18·0	1	...	12·9	..	No female death.
	Santipore	13,708	15,979	29,687	2	1	3	3·5	1·7	5·2	200	...	...	1	...	...	...	1	...	...	1·7	...	...	...	1·7	17·5	..	1	...	3·3	N. male death.
Jessore ...	Jessore	4,830	3,665	8,495	...	1	1	.	6 1	6·1	No male birth.	1	...	8	...	...	...	9	6·1	...	49·0	...	...	...	55·1	49·0	4	5	43·1	70·9	ol
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	2	5	7	5·3	13·1	18·4	40	...	...	6	1	1	2	10	...	...	15·8	2·6	2·6	5·3	26·3	10·5	6	4	29·0	23·0	126
Darjiling ...	Darjiling	4,579	2,439	7,018	2	3	5	14·8	22·3	37·0	66	..	...	2	...	...	1	3	...	...	14·8	...	...	7·4	22·2	22·2	2	1	22·7	31·3	105
Dacca ...	Dacca	42,782	37,379	80,161	15	10	25	9·7	6·5	16 2	150	2	..	8	3	...	11	24	1·3	...	5·2	1·9	...	7·1	15·6	16·2	15	9	18·2	12·8	150
	Naraingunj ...	7,605	4,956	12,561	4	5	9	16·8	20·7	37·3	80	4	...	1	4	1	.	10	16·6	...	4·1	16·5	4·1	...	41·4	29·0	6	4	41 0	42 0	97
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	2	5	7 0	4·7	11 7	150	...	..	3	1	..	5	9	...	...	7 0	2·3	...	11·7	21·1	30 5	6	3	23·4	17·7	135
Tipperah ...	Comillah	8,153	5,353	13,506	5	4	9	19·3	15·4	34 7	125	...	...	8	2	...	.	10	...	...	30 8	7 7	...	...	38 5	42·4	6	4	38·3	38·9	160
Patna	Patna City ...	78,762	81,475	160,237	18	25	43	5·8	8·1	14 0	72	...	1	9	4	1	6	21	...	·3	2·9	1·3	·3	1·9	6·8	6·2	9	12	5·9	7·7	72
Gya	Gya	38,290	37,831	76,121	18	11	24	8·9	7·5	16 4	118	4	...	21	...	...	20	45	2·7	...	14·3	...	...	13·7	30·7	24·6	24	21	32·6	28·9	114
Shahabad ...	Arrah	20,960	22,505	43,465	20	15	35	23·9	17 9	41·9	133	...	...	4	2	..		6	...	...	4·8	2·4	...	...	7·2	9·6	4	2	9·9	4·6	225
Mozufferpore .	Mozufferpore ...	23,064	19,658	42,742	6	10	16	7·3	12·2	19·5	60	..	...	2	1	4	5	12	...	..	2·4	1·2	4·9	6·1	14·6	29·1	6	6	13·5	15 9	86
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	10	20	30	7·9	15·7	23·6	50	...	..	15	...	...	11	26	..	..	11·8	...	...	8·7	20·5	20 4	12	14	18·5	22·5	82
Saran	Chupra	25,116	26,554	51,670	11	23	34	11·1	23·1	34·2	47	...		2	2	...	8	12	...	...	2·0	2·0	...	8·1	12·1	19·1	6	6	12·4	11·7	106
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	17	22	39	15·4	19 9	35·3	77	...	...	10	5	...	10	25	...	...	9·0	4·5	...	9·0	22·6	14 5	13	12	23·8	22·6	100
Monghyr ..	Monghyr	28,154	29,366	57,520	19	18	37	17·2	16·3	33·4	105	...	...	15	2	...	8	26	...	...	14·5	1·8	...	7·2	23·5	16·3	16	10	29·6	17·7	170
Purneah ...	Purneah	8,463	6,553	15,016	1	1	2	3·4	3·4	6·9	100	...	...	4	1	...	...	5	...	...	15·9	3·4	...	...	17·3	24·2	4	1	24·6	7·9	343
Poori	Poori	13,247	11,537	24,784	1	4	5	2·1	8·4	10 5	25	19	10	10	4	...	5	48	30·8	21·0	21·0	8·4	..	10·5	100·7	63·0	26	23	102·1	99·2	103
	Total ...	550,966	510,588	1,061,574	213	229	442	10·4	11·2	21·7	93	44	12	190	79	9	150	484	2·2	·6	9·3	3·9	·4	7·3	23·7	15·5	280	204	26 4	20 8	130

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15											16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.											RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	14	6	...	...	...	30·7	46·5	...	...	4	1	1	2	1	2	4	1	2	4		315·2	23·0	22·3	41·3	16·6	13·1	30·2	11·8	42·4	140·4
Midnapore	Midnapore	...	13	7	...	...	...	26·1	50·4	...	...	1	...	...	...	...	1	1	5	3	9		70·0	...	...	...	...	7·1	9·4	69·8	75·6	255·7
Hughli	Hughli and Chinsurah	...	22	5	...	...	...	45·3	42·2	...	...	3	3	2	...	1	4	...	8	4	3		129·5	70·3	36·0	...	20·7	33·5	...	99·7	84·0	75·3
Serampore	Serampore	...	29	1	...	...	...	50·8	55·4	...	...	6	5	1	...	...	4	2	5	2	5		439·4	144·0	30·7	...	...	38·6	20·9	77·1	54·3	186·9
	Utterpara	...	4	...	...	...	...	39·1	...	...	...	1	...	...	...	...	1	...	.	...	2		323·0	...	...	...	...	45·2	...	..	...	400·0
Howrah	Howrah	1	43	15	...	...	27·5	33·8	38·0	..	...	9	7	2	...	2	11	11	9	3	5		226·9	65·7	16·5	...	14·2	25·2	29·7	39·8	23·4	69·3
	Bali	...	6	1	...	...	...	23·5	39·7	...	...	1	1	1	..		1	...	...	2	1		145·6	52·1	48·8	...	...	15·5	...	...	99·2	71·0
Nuddea	Kishnaghur	...	8	4	...	...	...	22·3	25·1	...	...	1	...	1	...	1	...	6	1	...	2		104·8	...	15·1	...	25·3	...	72·9	15·9	...	60·2
	Ranaghat	...	1	...	...	...	...	7·1	...	..	...	...	...	...	...	...	...	1	...	.	...		...	...	...	...	...	...	41·7	...		.
	Santipore	...	1	...	...	...	...	2·5	...	...	...	..	...	...	...	...	...	...	...	1	...		...	...	...	...	...	...	...	...	22·6	...
Jessore	Jessore	1	1	7	...	...	321·0	11·5	95·2	...	...	1	3	...	...	1	...	..	1	2	1		268·0	315·8	...	...	71·0	...	...	49·5	184·7	113·5
Rajshahye	Rampore Beauleah	...	7	3	...	...	...	36·7	15·9	...	...	1	3	2	...	...	...	1	2	...	1		123·1	110·0	50·0	...	...	...	23·9	42·4	...	54·9
Darjiling	Darjiling	...	3	...	...	...	...	34·0	...	...	...	...	1	...	...	...	...	...	...	...	2		...	80·9	...	...	...	...	..	...	...	615·4
Dacca	Dacca	...	14	10	...	...	.	18·1	15·8	...	...	5	1	1	3	6	3	2	2	...	1		137·0	7·1	5·2	19·6	45·7	10·2	8·9	12·4	...	9·3
	Naraingunj	...	8	2	...	...	...	65·8	16·9	...	...	2	...	...	1	1	1	.	3		3		372·8	...	...	45·8	49·8	19·5	...	74·7	...	239·3
Chittagong	Chittagong	...	1	3	...	...	...	9·0	27·2	...	...	2	...	..	...	...	1	2	...	1	3		184·7	...	...	...	...	11·3	31·2	...	47·9	186·0
Tipperah	Comillah	...	4	6	...	...	...	35·0	43·2	...	...	1	...	...	..	1	2	1	...	1	4		175·1	...	...	...	41·3	37·7	26·1	...	64·9	306·8
Patna	Patna City	...	15	6	...	...	...	6·6	7·6	...	...	3	2	1	1	1		2	1	5	5		36·2	7·1	3·1	3·6	4·7	...	4·5	2·8	15·4	18·8
Gya	Gya	...	36	9	...	...	...	31·2	29·1	...	..	7	7	3	1	...	3	4	4	...	16		203·4	57·3	22·3	7·7	...	10·6	16·3	21·3	...	161·6
Shahabad	Arrah	...	5	1	...	...	..	8·4	4·2	...	...	2	..	1	1	...	1	...	...	...	1		80·7	...	10·1	11·3	...	6·6	...	...	...	18·9
Mozufferpore	Mozufferpore	...	8	4	...	...	...	13·9	16·7	...	...	4	1	2	...	...	...	...	2	1	2		217·8	12·9	23·1	...	...	...	...	20·8	16·0	42·7
Durbhanga	Durbhanga	...	21	5	...	...	...	22·6	14·8	...	...	4	1	1	3	1	2	3	...	1	10		133·6	6·6	6·6	23·1	12·9	7·8	14·0	...	11·9	162·8
Sarun	Chupra	...	7	5	...	...	...	9·2	21·8	...	...	2	2	...	...	...	1		2	1	4		73·7	20·1	...	...	..	5·6	...	17·1	12·6	61·1
Bhagulpore	Bhagulpore	1	20	4	...	...	134·7	26·2	12·1	...	...	3	2	...	...	5	1	5	2	1	6		136·7	19·2	...	...	.	62·2	4·6	26·0	16·5	12·2	86·6
Monghyr	Monghyr	...	23	4	...	...	..	25·6	16·5	...	...	6	3	1	1	2	2	3	2	1	9		210·1	25·1	7·4	9·1	27·5	16·1	17·5	16·3	13·1	72·5
Purneah	Purneah	...	2	3	...	...	...	11·3	27·6	...	...	2	..	..	...	...		1	2	.	...		367·5	...	...	...	...	...	18·2	56·1	...	...
Poori	Poori	...	46	...	...	...	...	101·7	...	...	...	2	4	3	4	5	10	6	5	4	5		343·2	115·7	69·6	110·9	139·9	98·4	77·0	78·2	93·2	144·0
	TOTAL	3	363	175	...	...	22·4	24·9	20·8	...	..	72	47	23	17	28	51	55	56	35	100		147·5	26·3	10·8	9·2	18·0	12·6	16·3	23·3	23·5	79·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 17th February 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of November 1889.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG „ 4 „

Number of boats or rafts	DESCRIPTION	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total	Value. Rupees.	PRIVATE. Quantity Tons	Value. Rupees.	REMARKS.
...	1. Grain ...	.....	.....	.....	.....	.....	.....	
...	2 Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	.....	8	8	630	8	630	
2	4. Salt ...	.....	20	20	1,938	20	1,938	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
2	7. Building materials	.....	25	25	60	25	60	
..	8. Miscellaneous ...	.....	.....	.....	.....	.....	.....	
..	9. Fuel ..	.....	.....	.....	.....	.....	.....	
3 rafts	10. Timber No.	.....	43	43	70	43	70	
2 „	11. Bamboos „	.....	2,300	2,300	30	2,300	30	
5 boats 5 rafts.	12. Total ...	....	53 & 2,343 No.	53 & 2,343 No.	2,728	53 & 2,343 No.	2,728	
10 boats 5 rafts.	13. Total of same month last year.	6	52 & 65 No.	58 & 65 No.	4,009	58 & 65 No.	4,009	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	.....	5	5
15. Total number of boats plying passenger No.	5	.....	5
15½. Total empty boats	8	9	17
16. Total registered tonnage, cargo, private Tons	.....	87	87
16½. Ditto ditto, Government Tons	.....	.....	.....
17. Total registered tonnage, passenger Tons	107	.....	107
17½. Ditto ditto, empty Tons	51	140	191
18. Ton-mileage ...	2,279	3,382	5,661
19. Estimated value of cargo Rs.	.....	2,628	2,628
20. Number of passengers ...	127	.....	127
21. Rafts, bamboos No.	.....	2,300	2,300
22. Do., bullahs „	.....	43	43
23. Estimated value of rafts Rs	.....	100	100
24. Tollage on boats „	21-2-0	29-10-0	50-12-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	5-0-6	5-0-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·88
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ..	55 12 6
Total tollage of same month last year ...	133 14 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month „	.....
2. Tollage per month ...	55 12 6
3. Total ...	55 12 6
4. Amount credited in the accounts of the month ...	43 4 6
5. Balance due at the end of the month ..	12 8 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
78	1. Grain ...	213	553	766	39,460	766	39,460	
7	2. Cotton ...	51	19	70	19,650	70	19,650	
4	3. Oilseeds ...	9	19	28	2,210	28	2,210	
13	4. Salt ...	6	30	36	2,870	36	2,870	
2	5. Piece-goods ...	.....	46	46	2,800	46	2,800	
...	6. Metal ...	.....	...	.....	.....	.....	.....	
37	7. Building materials	.....	1,028	1,028	14 130	471	12,160	
98	8. Miscellaneous ...	440	308	748	43,570	748	43,570	
8	9. Fuel ...	19	5	24	160	24	160	
3 rafts	10. Timber ...	.....	1,056 c. ft.	1,056 c. ft.	450	1,056 c. ft.	450	
3 „	11. Bamboos ...	.....	3,550 „	3,550 „	160	3,550 „	160	
247 & 6 rafts.	12. Total ...	738	2,008 & 4,606 c. ft.	2,746 & 4,606 c. ft.	1,25,460	2,189 & 4,606 c. ft.	1,23,490	
345 & 16 rafts.	13. Total of same month last year.	1,083	1,475 & 77,289 No.	2,558 & 77,289 c. ft	3,04,430	2,278 & 77,289 c. ft.	3,01,910	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	114	133	247
15. Total number of boats plying passenger No.	52	57	109
15½. Ditto empty boats „	191	130	321
16. Total registered tonnage, cargo, private Tons	1,402	2,540	3,942
16½. Ditto ditto, Government „	.....	826	826
17. Total registered tonnage, passenger Tons	2,331	1,971	4,302
17½. Ditto ditto empty boats „	1,361	569	1,930
18. Ton-mileage ...	225,132	255,152	480,284
19. Estimated value of cargo Rs.	53,260	71,590	1,24,850
20. Number of passengers ...	1,943	1,736	3,679
21. Rafts, bamboos C. ft.	.....	3,550	3,550
22. Do., timber „	... ..	1,056	1,056
23. Estimated value of rafts Rs.	.....	610	610
24. Tollage on boats „	1,874-7-10	2,875-10-9	4,750-2-7
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	34-2-8	34-2-8
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·9
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-11-10

	Rs.	A.	P.
Total tollage of month— 24 + 25 + 26 ...	4,784	5	3
Total tollage of same month last year ...	4,657	12	8

Memorandum of Tollage.

	Rs.	A	P.
1. Balance not recovered on the 1st of the month ...	4,319	0	11
2. Tollage per month ...	4,784	5	3
Amount erroneously charged now written back	2	7	0
3. Total ...	9,100	15	2
4. Amount credited in the accounts of the month ...	5,057	1	5
5. Balance due at the end of the month ...	4,043	13	9

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
45	1. Grain ...	118	...	118	10,130	118	10,130	
4	2. Cotton ...	8	2	10	3,000	10	3,000	
11	3. Oilseeds ..	51	.....	51	4,150	51	4,150	
46	4. Salt ...	.....	136	136	11,400	136	11,400	
...	5. Piece-goods	...	... ..	.....	.....	.. ...	......	
..	6. Metal ...	.....	.. ...	. ...	.....	.....	.....	
49	7. Building materials	39	387	426	1,750	73	1,470	
38	8. Miscellaneous ...	70	35	105	9,690	105	9,690	
14	9. Fuel ...	110	.. ...	110	310	110	310	
...	10. Timber ...	...	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
207	12. Total ...	396	560	956	40,430	603	40,150	
175 & 4 rafts.	13. Total of same month last year ...	494 & 638 No.	113	607 & 638 No.	42,340	607 & 638 No	42,340	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	106	101	207
15. Total number of boats plying passenger No.	7	6	13
15½. Ditto empty boats „	37	84	121
16. Total registered tonnage, cargo, private Tons	731	469	1,200
16½. Ditto ditto, Government „	.....	499	499
17. Total registered tonnage, passenger Tons	79	76	155
17½. Ditto empty boats „	122	377	499
18. Ton-mileage ...	26,900	29,014	55,914
19. Estimated value of cargo Rs.	22,760	17,670	40,430
20. Number of passengers ...	39	35	74
21. Rafts, bamboos C. ft	.....	.....	.....
22. Do., timber „	.....	.....	.....
23. Estimated value of rafts Rs.	.....	... ..	.....
24. Tollage on boats „	303-0-7	254 14-9	557-15-4
25. Compounded tollage on boats Rs.	... ..	.....	.....
26. Tollage on rafts „	.....	...	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·9
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	557 15 4
Total tollage of same month last year	451 1 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	70 14 6
2. Tollage per month ...	557 15 4
3. Total ...	628 13 10
4. Amount credited in the accounts of the month	327 7 4
5. Balance due at the end of the month ...	301 6 6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
10	1. Grain ..	17	4	21	895	21	895	
2	2. Cotton ...	6	5	11	1,037	11	1,037	
1	3. Oilseeds ..	.....	1	1	14	1	14	
2	4. Salt ...	.....	6	6	770	6	770	
12	5. Piece-goods ...	.....	15	15	4,060	15	4,060	
1	6. Metal ...	3	.....	3	260	3	260	
49	7. Building materials	... ..	434	434	297	4	79	
4	8. Miscellaneous ...	6	9	15	2,345	15	2,845	
1	9. Fuel ...	.....	3	3	9	3	9	
7 rafts	10. Timber ...	.....	1,374 c. ft.	1,374 c. ft.	687	1,374 c. ft.	687	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
82 & 7 rafts.	12. Total ...	32	477 & 1,374 c. ft.	509 & 1,374 c ft.	10,374	79 & 1,374 c. ft.	10,156	
80 & 2 rafts.	13. Total of same month last year.	122	159 & 28 No.	281 & 28 No.	15,767	173½ & 28 No.	15,517	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	10	72	82
15. Total number of boats plying passenger No.	3	3	6
15½. Ditto empty boats „	64	10	74
16. Total registered tonnage, cargo and boat Tons	64	954	1,018
16½. Ditto Govt. boat „	.....	860	860
17. Total registered tonnage, passenger Tons	18	8	26
17½. Ditto ditto empty „	383	31	414
18. Ton-mileage	5,261	11,124	16,385
19. Estimated value of cargo Rs.	1,496	8,191	9,687
20. Number of passengers ...	101	265	366
21. Rafts, bamboos C. ft.	... ..	.....	.....
22. Do., bullahs „	.....	1,374	1,374
23. Estimated value of rafts Rs.	... ..	687	687
24. Tollage on boats „	43-12-3	171-8-9	215-5-0
25. Compounded tollage on boats Rs.	.....	... ..	.....
26. Tollage on rafts „	.....	11-0-9	11-0-9
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·52
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-9

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	226 5 9
Total tollage of same month last year ...	140 12 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	226 5 9
3. Total ...	226 5 9
4. Amount credited in the accounts of the month ...	202 2 3
5. Balance due at the end of the month ...	24 3 6

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1	1. Grain ...	3½	.....	3½	96	3½	96	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
1	4. Salt ...	.....	8½	8½	948	8½	948	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	...	...	...	
22	7. Building materials	.....	218	218	74	.....	.....	
...	8. Miscellaneous ...	.....	.....	.....	.....	.....	.....	
..	9. Fuel ...	.....	...	...	...	.....	.....	
14 rafts	10. Timber ...	.....	2,064 c. ft.	2,064 c. ft	691	2,064 c. ft.	691	
2 „	11. Bamboos ..	..	125 No.	125 No.	3	125 No.	3	
24 & 16 rafts.	12. Total ...	3½	226½ & 2,064 c. ft. 125 No.	230 & 2,064 c. ft. 125 No.	1,812	12 & 2,064 c.ft. 125 No.	1,738	
32 & 7 rafts.	13. Total of same month last year.	62	24 & 159 No.	86 & 159 No.	6,115	86 & 159 No.	6,115	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1	23	24
15. Total number of boats plying passenger No.	... ..	.....	.....
15½. Ditto empty ditto „	24	2	26
16. Total registered tonnage, cargo, including boat Tons	7	453	460
16½. Ditto Govt. ditto „	.. ...	436	436
17. Total registered tonnage, passenger Tons	.....	.....	.....
17½. Ditto empty ditto „	172	2	174
18. Ton-mileage ...	379	632	1,011
19. Estimated value of cargo Rs.	96	1,022	1,118
20. Number of passengers ...	207	220	427
21. Rafts, bamboos No	... ..	125	125
22. Do., bullahs C. ft.	... ..	2,064	2,064
23. Estimated value of rafts Rs.	.....	694	694
24. Tollage on boats „	15-4-6	77-11-6	93-0-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	16-0-9	16-0-9
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-1-5·66
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-4

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	109 0 9
Total tollage of same month last year	49 8 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	109 0 9
3. Total ...	109 0 9
4. Amount credited in the accounts of the month ...	95 1 6
5. Balance due at the end of the month ...	13 15 3

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6¼ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
2	1. Grain .	.. ...	7	7	297	7	297	
1	2. Cotton .	...	2½	2½	700	2½	700	
...	3. Oilseeds ...	...	.....	.....	.....	.....	.....	
...	4. Salt ..	.....	...	.....	.....	..	... ..	
1	5 Piece-goods ...	.....	1	1	500	1	500	
...	6. Metal .	...	.....	.....	.....	.. ...	.. ...	
...	7. Building materials	... ..	.....	.....		.....	.....	
33	8. Miscellaneous ...	.....	16	16	1,769	16	1,769	
1	9. Fuel ...	4	.	4	28	4	28	
7 rafts.	10. Timber ...	.. ...	708 c. ft	708 c. ft.	111	708 c ft.	111	
...	11. Bamboos	. ...	...	.....	...	...	. ...	
38 & 7 rafts.	12. Total ...	4	26½ & 708 c. ft	30½ & 708 c. ft	3,405	30½ & 708 c. ft.	3,405	
7 & 4 rafts.	13. Total of same month last year.	29 & 48 No.	3	32 & 48 No.	1,081	8 & 48 No.	1,039	

		Up.	Down.	Total.
14	Total number of boats plying cargo No.	1	37	38
15.	Total number of boats plying passenger No.	1	2	3
15½.	Ditto empty boats ,,	30	5	35
16.	Total registered tonnage, cargo and boat Tons	8	53	61
16½.	Ditto Govt. boat ,,	4	4	8
17.	Total registered tonnage, passenger Tons	5	10	15
17½.	Ditto, empty boats ,,	39	25	64
18.	Ton-mileage ...	172	511	683
19.	Estimated value of cargo Rs	28	3,266	3,294
20.	Number of passengers ...	30	20	50
21	Rafts, bamboos C. ft.	.. ...	.....	.....
22.	Do., bullahs ,,	.....	708	708
23.	Estimated value of rafts Rs.	.....	111	111
24.	Tollage on boats ,,	3-15-0	9-12-6	13-11-6
25.	Compounded tollage on boats Rs.	.....	.....	.. ...
26.	Tollage on rafts ,,	.....	2-2-6	2-2-6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·85
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-1-3

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ..	15	14	0
Total tollage of same month last year	9	1	4

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	.....		
2. Tollage per month ..	15	14	0
3. Total ...	15	14	0
4. Amount credited in the accounts of the month ..	0	6	0
5. Balance due at the end of the month ...	15	8	0

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES

Number of boats or rafts	Description.	Total Government and Private. Quantity—Tons. Up.	Down	Total.	Value Rupees	Private Quantity. Tons	Value. Rupees.	Remarks.
711	1. Grain ...	3,957	376	4,333	2,42,149	4,333	2,42,149	
2	2. Cotton ...	.....	4	4	1,800	4	1,800	
16	3. Oilseeds ...	90	72	162	15,234	162	15,234	
91	4. Salt ...	.....	437	437	83,845	437	83,845	
9	5. Piece-goods ...	8	106	114	3,10,770	114	3,10,770	
17	6. Metal	102	85	187	1,51,986	187	1,51,986	
20	7. Building materials	120	8	128	904	128	904	
299	8. Miscellaneous ...	877	667	1,544	2,80,994	1,544	2,80,994	
29	9. Fuel ...	54	355	409	4,890	409	4,890	
90 rafts	10. Timber ...	19,520 c. ft.	40 c. ft.	19,560 c. ft.	10,668	19,560 c. ft	10,668	
6 „	11. Bamboos ...	1,798 „	100 „	1,898 „	182	1,898 „	182	
1,194 & 96 rafts.	12. Total ...	5,208 & 21,318 c. ft.	2,110 & 140 c. ft.	7,318 & 21,458 c. ft	11,03,422	7,318 & 21,458 c. ft.	11,03,422	
1,617 & 111 rafts	13. Total of same month last year.	6,317 & 33,598 c. ft.	2,132 & 106 c. ft	8,449 & 33,704 c. ft	10,66,455	8,449 & 33,704 c. ft.	10,66,455	

	Up	Down.	Total.
14 Total number of boats plying cargo No.	895	299	1,194
15. Total number of boats plying passenger No	538	605	1,143
15½ Ditto empty „	439	649	1,088
16. Total registered tonnage, cargo Tons	11,518	4,567	16,085
17. Total registered tonnage, passenger Tons	3,812	3,730	7,542
17½ Ditto empty „	1,898	3,138	5,036
18. Ton-mileage	358,930	207,163	566,093
19. Estimated value of cargo Rs	4,56,942	6,35,630	10,92,572
20. Number of passengers ...	4,957	10,478	15,435
21. Rafts, bamboos C. ft	1,798	100	1,898
22. Do., bullahs „	19,520	40	19,560
23. Estimated value of rafts Rs	10,738	112	10,850
24. Tollage on boats „	5,948-5-3	3,084-3-0	9,032-8-3
25. Compounded tollage on boats Rs	.....	.....	...
26. Tollage on rafts „	323	1	324
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-8-2

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	9,356	8	3
Total tollage of same month last year .	10,992	15	9

Memorandum of Tollage.

	Rs.	A	P.
1. Balance not recovered on the 1st of the month	2,907	14	1
2. Tollage per month ...	9,356	8	3
3. Total ..	12,264	6	4
4. Amount paid into Treasury during the month .	6,953	10	6
5. Balance due at the end of the month ...	5,310	11	10

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	Total Government and Private				Private.		Remarks
		Quantity—Tons.			Value	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
107	1. Grain ...	618	390	1,008	1,08,979	1,008	1,08,979	
...	2. Cotton ...	...	...	.....	.....	.....	...	
5	3. Oilseeds ...	7	7	14	1,100	14	1,100	
22	4 Salt ...	... ..	156	156	17,540	156	17,540	
4	5. Piece-goods ...	.....	7	7	9,600	7	9,600	
1	6. Metal ..	.....	3	3	200	3	200	
9	7. Building materials	11	37	48	392	48	392	
599	8. Miscellaneous ...	628	260	888	82,621	888	82,621	
9	9. Fuel ...	3	74	77	960	44	530	
27 rafts	10. Timber ...	592 c. ft.	3,469 c. ft.	4,061 c ft.	4,130	4,061 c ft	4,130	
...	11. Bamboos ..	.....	.....	.....	... ..	.....	... .	
756 & 27 rafts	12. Total ..	1,267 & 592 c. ft.	934 & 3,469 c. ft.	2,201 & 4,061 c. ft.	2,25,522	2,168 & 4,061 c. ft	2,25,092	
1,107 & 25 rafts.	13. Total of same month last year.	2,431 & 977 c. ft.	488 & 11,932 c ft	2,919 & 12,909 c. ft.	1,90,994	2,919 & 12,909 c. ft.	1,90,994	

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	341	415	756
15.	Total number of boats plying passenger No.	57	59	116
16.	Total registered tonnage, cargo Tons	3,125	3,074	6,199
17.	Total registered tonnage, passenger Tons	436	551	987
18.	Ton-mileage	58,218	65,642	123,860
19.	Estimated value of cargo Rs	86,259	135,133	2,21,392
20.	Number of passengers ...	896	1,527	2,423
21.	Rafts, bamboos C. ft.	.....	.....	.....
22.	Do., bullahs „	592	3,469	4,061
23.	Estimated value of rafts Rs.	610	3,520	4,130
24.	Tollage on boats „	1,018-11-3	1,147-6-9	2,166-2-0
25.	Compounded tollage on boats Rs.	.....	0-5-6	0-5-6
26.	Tollage on rafts „	9-5-3	82-5-0	91-10-3
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-4-1

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,258	1	9
Total tollage of same month last year	2,529	2	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,743	4	9
2. Tollage per month ...	2,258	1	9
3. Total ...	4,001	6	6
4. Amount paid into Treasury during the month	2,364	9	9
5. Balance due at the end of the month	1,636	12	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
7	1. Grain ..	1	79	80	4,812	80	4,812	
...	2. Cotton ...	...	.....	...	...	...	.....	
1	3. Oilseeds ..	.....	17	17	1,812	17	1,812	
4	4. Salt ...	71	.....	71	5,666	71	5,666	
28	5. Piece-goods ..	192	11	203	36,324	203	36,324	
3	6. Metal ..	33	.....	33	2,456	38	2,456	
10	7. Building materials	7	67	74	440	45	200	
42	8. Miscellaneous .	99	253	352	59,346	260	58,992	
...	9. Fuel	...	...	.....	....	.....	.....	
...	Do. ...	.....	33	33	295	33	295	
6	10. Timber ...	99	.....	99	3,520	.....	...	
...	Do. ..	...	52	52	553	52	553	
.	11. Bamboos ...	.....	84	84	1,294	84	1,294	
101	12. Total ...	502	596	1,098	1,16,518	878	1,12,404	
176	13. Total of same month last year ...	474	1,312	1,786	1,85,469	1,403	1,84,333	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	54	47	101
15. Total number of boats plying passenger No.	9	15	24
15½. Ditto empty „	46	38	84
16. Total registered tonnage, cargo Tons	838	664	1,502
17. Total registered tonnage, passenger Tons	140	189	329
17½. Ditto empty „	217	166	383
18. Ton-mileage ...	68,310	61,990	130,300
19. Estimated value of cargo Rs.	55,738	58,638	1,14,376
20 Number of passengers ...	386½	599	985½
21. Rafts, bamboos C. ft.	.....	12,610	12,610
22. Do., bullahs „	.....	6,372	6,372
23. Estimated value of rafts Rs.	.....	2,142	2,142
24. Tollage on boats „	564-0-9	333-6-6	897-7-3
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts „	.....	83-14-3	83-14-3
27. Total tollage on boats per ton-mile Rs	.....	.....	0-0-1·56
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-7-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,131	5	6
Total tollage of same month last year ...	1,760	2	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	135	11	10
2. Tollage per month ...	1,131	5	6
3. Total ...	1,267	1	4
4. Amount credited in the accounts of the month	949	4	0
5. Balance due at the end of the month ...	317	13	4

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
11	1 Grain ...	... ..	149	149	11,789	149	11,789	
...	2. Cotton ...	.....	.....	.....	.....	.. ...	.....	
...	3. Oilseeds ...	1	1	2	492	2	492	
27	4. Salt ...	377	.. ...	377	44,886	377	44,886	
...	5. Piece-goods	24	4	28	39,650	28	39,650	
1	6. Metal ...	5	.....	5	20,640	5	20,640	
7	7. Building materials	.....	84	84	348	77	328	
119	8. Miscellaneous ...	22	889	911	36,787	153	35,560	
8	9. Fuel ..	57	54	111	1,300	54	750	
...	10. Timber ...	2	2	4	435	4	435	
...	Do. ..	...	2	2	415	2	415	
...	11. Bamboos .	.....	23	23	377	23	377	
...	Bullahs ...	.....	8	8	125	8	125	
...	Firewood ...	.....	680	680	4 918	680	4,918	
173	12. Total ...	488	1,896	2,384	1,61,962	1,562	1,60,365	
148	13. Total of same month last year.	590	1,373	1,963	1,92,312	1,547	1,87,489	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	36	137	173
15. Total number of boats plying passenger No.	...	2	2
15½. Total number of empty boats No.	87	7	94
16. Total registered tonnage, cargo Tons	830	2,134	2,964
17. Total registered tonnage, passenger Tons	65	67	132
17½. Total registered tonnage, empty Tons	400	26	426
18. Ton-mileage ...	49,226	79,516	128,742
19 Estimated value of cargo Rs.	1,01,355	54,772	156,127
20. Number of passengers ...	911	856	1,767
21. Rafts, bamboos C.ft.	.....	3,510	3,510
21½. Do, timber „	.....	164	164
22. Do., bullahs „	.....	650	650
22½. Do., firewood „	.....	51,015	51,015
23. Estimated value of rafts Rs.	.....	5,835	5,835
24. Tollage on boats „	273-12-9	370-12-3	644-9-0
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts „	.....	85-4-6	85-4-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·64
28. Total tollage on rafts per 100 cubic feet Rs	.....	.....	0-2-5

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,185 13 6
Total tollage of same month last year ...	1,502 4 11

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	296 10 9
2. Tollage per month ...	1,185 13 6
3. Total ...	1,482 8 3
4. Amount credited in the accounts of the month	1,246 3 6
5. Balance due at the end of the month ...	236 4 9

BUXAR CANAL SYSTEM

LENGTH OF CANAL OPEN, 67 MILES

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
12	1. Grain ...	66	178	244	15,168	244	15,168	
..	2. Cotton ...	2	1	3	4,350	3	4,350	
1.	3. Oilseeds ...	.....	6	6	400	6	400	
...	4. Salt ...	1	.....	1	340	1	340	
...	5. Piece-goods ...	1	1	2	2,900	2	2,900	
...	6. Metal ...	3	1	4	10,310	4	10,310	
1	7. Building materials	1	7	8	274	8	274	
22	8. Miscellaneous ..	9	191	200	13,968	200	13,968	
...	9 Fuel ...	... ..	... .	.....	.. ...	.....	...	
...	10. Timber ...	...	94	94	1,102	94	1,102	
...	11. Bamboos ...	... ..	299	299	7,077	299	7 077	
36	12 Total ..	83	778	86	55,889	861	55,889	
54	13. Total of same month last year.	39	847	886	1,08 234	879	1,07,984	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3	33	36
15. Total number of boats plying passenger No.	7	9	16
15½. Ditto empty „	25	4	29
16. Total registered tonnage, cargo Tons	104	896	1,000
17. Total registered tonnage, passenger Tons	189	206	395
17½. Ditto empty „	115	10	125
18. Ton-mileage ...	9,828	9,244	19,072
19. Estimated value of cargo Rs.	19,225	28,485	47,710
20. Number of passengers ...	460	670	1,130
21 Rafts, bamboos C. ft.	.....	44,887	44,887
22. Do., bullahs „	.....	7,049	7,049
23. Estimated value of rafts Rs.	.....	8,179	8,179
24 Tollage on boats „	82-0-3	135 8-6	217-8 9
25 Compounded tollage on boats Rs	107-0-0	107-0-0	214-0-0
26. Tollage on rafts „	.....	204-11-3	204-11-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·34
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-3

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ..	636 4 0
Total tollage of same month last year ..	601 13 6

Memorandum of Tollage.

	Rs A. P.
1. Balance not recovered on the 1st of the month ...	21 9 0
2. Tollage per month ...	636 4 0
3. Total ..	657 13 0
4. Amount credited in the accounts of the month ...	656 1 9
5. Balance due at the end of the month ...	1 11 3

ABSTRACT FOR THE MONTH OF NOVEMBER 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1889-90.		Traffic, 1888-89.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	55 12 6	2,690 14 7	133 14 0	1,408 0 9	
Kendrapara Canal System	4,784 5 3	30,500 13 7	4,657 12 8	29,426 3 1	
High Level, Range I ...	557 15 4	4,525 0 7	451 1 9	3,824 15 6	
Ditto, „ II ...	226 5 9	1,928 7 3	140 12 3	1,605 1 6	
Ditto, „ III ...	109 0 9	922 9 3	49 8 6	765 3 6	
Jajepore Canal ...	15 14 0	66 3 8	9 1 4	48 6 10	
Total Orissa Circle ...	5,749 5 7	40,634 0 11	5,442 2 6	37,077 15 2	
South-Western Circle.					
Midnapore Canal ...	9,356 8 3	95,279 12 6	10,992 15 9	88,077 7 6	
Hidgellee Tidal Canal ...	2,258 1 9	33,420 11 6	2,529 2 3	42,330 1 6	
Total South-Western Circle	11,614 10 0	1,28,700 8 0	13,522 2 0	1,30,407 9 0	
Sone Circle.					
Patna Canal System ..	1,131 5 6	16,732 15 0	1,760 2 6	18,049 1 6	
Arrah ditto ...	1,185 13 6	12,452 15 2	1,502 4 11	13,676 15 5	
Buxar ditto ...	636 4 0	4,734 0 5	601 13 6	6,256 15 6	
Total Sone Circle ...	2,953 7 0	33,919 14 7	3,864 4 11	37,983 0 5	
Grand Total ...	20,317 6 7	2,03,254 7 6	22,828 9 5	2,05,468 8 7	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1889-90.						Traffic, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	700	538	1,940 12 4	4,621	4,806	6,105 10 3	733	694	873 0 10	3,194	1,963	3,601 12 4
Total Orissa Circle ...	700	538	1,940 12 4	4,621	4,806	6,105 10 3	733	694	873 0 10	3,194	1,963	3,601 12 4

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1889-90.		Earnings, 1888-89.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	7,690 1 11	46,739 10 14	6,315 3 4	40,679 11 6	
Midnapore Canal ...	9,356 8 3	95,279 12 6	10,992 15 9	88,077 7 6	
Hidgellee Tidal Canal ...	2,258 1 9	33,420 11 6	2,529 2 3	42,330 1 6	
Sone Canals ...	2,953 7 0	33,919 14 7	3,864 4 11	37,983 0 5	
Total ...	22,258 2 11	2,09,360 1 9	23,701 10 3	2,09,070 4 11	

Calcutta,
The 18th February 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of December 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
486	1. Grain ...	833 50	3,417·00	4,250·50	2,67,739	4,250·50	2,67,739	
...	2. Cotton ...	.....	.....	.....	... ..	...	. ...	
66	3. Oilseeds ...	5 00	844·50	849·50	94,900	849 50	94,900	
318	4. Salt ...	2,921 00	.....	2,921·00	2,49,056	2,921·00	2,49,056	
..	5. Piece-goods ...	.....	.	..	.....	...	.....	
19	6 Metal	119·75	21·00	140·75	71 575	140·75	71,575	
21	7. Building materials	6 00	39·00	107·00	1,069	107 00	1,069	
1,050	8. Miscellaneous ...	2,326·37	7 978·63	10 305·00	17,37,375	10,305·00	17,37,375	
74	9. Fuel ...	833 00	133·37	966 37	12,633	966·37	12,633	
33 rafts	10 Timber ...	445 c.ft.	10,845 c. ft.	11,290 c. ft	32,962	11,290·00 c.ft.	32,962	
2 „	11. Bamboos ...	10 „	2·0 „	210 „	17	210·00 „	17	
2,034 & 35 rafts.	12. Total ...	7,106·62 & 455 c. ft	12,433·50 & 11,045 c. ft.	19,540·12 & 11,500 c ft.	24,67,326	19,540·12 & 11,500 c ft	24,67,326	38 rounds passed up on Matabhanga river.
2,113 & 43 rafts	13. Total of same month last year	7,448 & 432 c. ft.	13,138 & 9,141 c. ft.	20,586 & 9,573 c. ft.	30,42,721	20,586 & 9,573 c. ft.	30,42,721	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	906	1,128	2,034
14a. Ditto empty boats, steamers &c. No.	355	190	545
15. Total number of boats plying passenger No.	488	750	1,238
15a. Ditto empty boats „	32	28	60
16. Total registered tonnage, cargo Tons	17,636	26,440	44,076
17. Total registered tonnage, passenger Tons	241	371	612
18. Ton-mileage	.....	.....	.....
19 Estimated value of cargo Rs	8,39,765	15,94 582	24,34,347
20. Number of passengers No.	1,153	1,435	2,588
21. Rafts, bamboos C. ft.	10	200	210
22. Do., bullahs „	445	10,845	11,290
23. Estimated value of rafts Rs.	758	32,221	32,979
24 Tollage on boats „	4,258-10-0	6,849-2-6	11,107-12-6
25. Compounded tollage on boats Rs.	.....	.... .	.....
26. Tollage on rafts „	3-9-0	200-2-6	203-11-6
27. Total tollage on boats per ton mile* ...	.....	.....	.....
28. Ditto on rafts per 100 cubic feet ... Rs.	.....	.....	1-12-4

	Rs. A. P.
Total tollage of month—24+25+26 ...	11,311 8 0
Total tollage of same month last year ...	11,481 7 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	368 15 0
2. Tollage per month ...	11,311 8 0
3. Total ...	11,680 7 0
4. Amount paid into Treasury during the month ...	11,223 5 6
5. Balance due at the end of the month ...	457 1 6

* Boats in these rivers do not pay per mile.

Abstract for the month of December 1889 *as compared with the corresponding month of the previous year.*

	1889-90. During the month.	1889-90. To end of the month.	1888-89. During the month.	1888-89. To end of the month.
	Rs. A. P.	Rs. A P.	Rs. A. P.	Rs. A. P.
Tollage	11,311 8 0	1,57,412 11 9	11,481 7 0	1,65,633 12 2

CALCUTTA,
The 18th February 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97¾ MILES.

Statement showing quantities of Goods carried during the month of December 1889.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up	Down.	Total.	Rupees.	Tons.	Rupees.	
156	1. Grain ...	1,190	440	1,630	64,422	1,630	64,422	
...	2. Cotton ...	... ..	.....	.....	.....	... ..	... ..	
8	3. Oilseeds ...	55	.....	55	4,940	55	4,940	
23	4. Salt ...	.....	209	209	24,525	209	24,525	
6	5. Piece-goods ...	.....	36	36	6,300	36	6,300	
2	6. Metal ...	1	... ..	1	115	.....	...	
8	7. Building materials	16	5	21	163	15	143	
634	8. Miscellaneous ...	658	511	1,169	1,29,151	1,168	1,29,056	
16	9. Fuel ...	20	91	111	858	93	733	
9 rafts.	10. Timber ...	1,118 c. ft.	.....	1,118 c. ft	1,094	1,118 c. ft.	1,094	
2 „	11. Bamboos ...	.....	250 c ft.	250 „	24	250 „	24	
853 and 11 rafts	12. Total ...	1,940 & 1,118 c. ft.	1,292 & 250 c. ft	3,232 & 1,368 c. ft.	2,31,592	3,206 & 1,368 c.ft.	2,31,237	
1,043 and 7	13. Total of same month last year	2,014 & 303 c. ft.	575 & 43 c. ft.	2,589 & 346 c. ft.	1,61,741	2,589 & 346 c.ft.	1,61,741	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	452	401	853
15. Total number of boats plying passenger No.	71	68	139
16. Total registered tonnage, cargo Tons	4,322	3,660	7,982
17. Total registered tonnage, passenger Tons	816	788	1,604
18. Ton-mileage ...	152,315	151,863	3,04,178
19. Estimated value of cargo Rs.	98,773	1,31,701	2,30,474
20. Number of passengers No.	1,579	2,024	3,603
21. Rafts, bamboos C. ft.	.....	250	250
22. Do., bullahs „	1,118	.....	1,118
23. Estimated value of rafts Rs.	1,094	24	1,118
24. Tollage on boats „	2,690-1-3	2,672-15-3	5,363-0-6
25. Compounded tollage on boats Rs.	3-2-0	3-12-0	6-14-0
26. Tollage on rafts „	32-12-0	1-14-0	34-10-0
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·3
28. Ditto on rafts per 100 cubic feet Rs.	.....	.....	2-8-5

	Rs. A. P.
Total tollage of month—24+25+26 ...	5,404 8 6
Total tollage of same month last year ...	3,876 8 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	4,402 10 0
2. Tollage per month ...	5,404 8 6
3. Total ...	9,807 2 6
4. Amount paid into Treasury during the month ...	3,295 9 3
5. Balance due at the end of the month ...	6,511 9 3

Abstract for the month of December 1889 as compared with the corresponding month of the previous year.

	1889-90.		1888-89	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	5,404 8 6	43,233 9 0	3,876 8 0	46,019 12 0

CALCUTTA,
The 18th February 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of December 1889.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
473	1. Grain ...	6,366	.....	6,366	6,21,880	6,366	6,21,880	* For details, see next page.
1	2. Cotton ...	1	.....	1	450	1	450	
20	3. Oilseeds ..	330	3	333	37,537	333	37,537	
860	4. Salt ...	436	6,293	6,729	6,35,850	6,729	6,35,850	
.....	5. Piece-goods ..	.....	.....	.....	.....	.....	.....	
10	6. Metal ...	10	50	60	13,850	60	13 850	
171	7. Building materials	5,600	91	5,691	88,187	5,691	88,187	
3,690	8. Miscellaneous* ...	39,010	2,204	41,214	52,45,120	41,214	52,45.120	
512	9. Fuel ...	9,456	3,910	13,366	1,02,774	13,366	1,02,774	
... ..	10. Timber ...	.....	.....	.. ...	.....	..	.....	
2 rafts	11. Bamboos ...	64 c. ft	.....	64 c. ft.	10	64 c. ft	10	
5,237 & 2 rafts.	12. Total ...	61 209 & 64 c. ft	12,551	73,760 & 64 c ft.	67,45,658	73,760 & 64 c. ft.	67,45,658	
5,876 & 1 raft.	13. Total of same month last year.	61,033	12,976 & 40 c. ft	74,009 & 40 c. ft.	62,41,524	74,009 & 40 c. ft.	62,41,524	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4,614	623	5,237
14a. Ditto empty boats „	2,054	1,336	3,390
15. Total number of boats plying passenger No.	367	8	375
16. Total registered tonnage, cargo Tons	149,965	38,700	188,665
17. Total registered tonnage, passenger Tons	669	31	700
18. Ton-mileage ...	1,391,880	387,000	1,778,880
19. Estimated value of cargo Rs.	58,18,485	9,27,163	67,45,648
20. Number of passengers No.	1,273	39	1,312
21. Rafts, bamboos C. ft.	64	.....	64
22. Do., bullahs „	.. ...	.....	.....
23. Estimated value of rafts Rs.	10	... ..	10
24. Tollage on boats „	34,641-12-3	9,489-9-0	44,131-5-3
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	0-8-0	.....	0-8-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4 76
28. Ditto on rafts per 100 cubic feet Rs.	.....	.....	0-12-6

	Rs. A. P.
Total tollage of month—24+25+26 ...	44,131 13 3
Total tollage of same month last year ...	45,276 6 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	1,295 11 9
2. Tollage per month ...	44,131 13 3
3. Total	45,427 9 0
4. Amount paid into Treasury during the month ...	44,299 1 3
5. Balance due at the end of the month ...	1,128 7 9

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of trains or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,558	(*a*) Jute ...	33,332	77	33,409	42,09,525	33,409	42,09,525	
76	(*b*) Jaggery ...	548	41	589	57,750	589	57,750	
3	(*c*) Sugar ...	36	.....	36	9,000	36	9,000	
2	(*d*) Tobacco ...	.....	8	8	1,575	8	1,575	
1,230	(*e*) Fish ...	185	2	187	52,361	187	52,361	
22	(*f*) Hides ...	28	.....	28	6,388	28	6,388	
50	(*g*) Poultry ...	5	.....	5	4,392	5	4,392	
87	(*h*) Hay and straw ...	487	.....	487	11,935	487	11,935	
111	(*j*) Oil ...	.....	1,769	1,769	2,47,625	1,769	2,47,625	
41	(*k*) Earthenware ...	90	7	97	1,359	97	1,359	
510	(*m*) Other miscellaneous ...	4,299	300	4,599	6,43,210	4,599	6,43,210	
3,690	Total Miscellaneous...	39,010	2,204	41,214	52,45,120	41,214	52,45,120	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of December 1889.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
5,709	1. Grain ...	11,687	.....	11,687	10,82,967	11,687	10,82,967	
15	2. Cotton ...	117	.....	117	58,950	117	58,950	
11	3. Oilseeds ...	163	.....	163	18,650	163	18,650	
65	4. Salt ...	541	353	894	84,459	894	84,459	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
291	7. Building materials	2,846	.....	2,846	14,359	2,846	14,359	
985	8. Miscellaneous* ...	5,923	97	6,020	5,15,068	6,020	5,15,068	
160	9. Fuel ...	1,943	18	1,961	15,524	1,961	15,524	
2 rafts	10. Timber ...	7,732 c. ft.	.....	7,732 c. ft.	19,330	7,732 c. ft.	19,330	
3 „	11. Bamboos ...	213 „	.....	213 „	35	213 „	35	
7,236 & 5 rafts.	12. Total ...	23,220 & 7,945 c. ft	468	23,688 & 7,945 c. ft.	18,09,342	23,688 & 7,945 c. ft.	18,09,342	
5,788 & 3 rafts.	13. Total of same month last year ...	19,296 & 2,150 c.ft.	563	19,859 & 2,150 c. ft.	14,52,588	19,859 & 2,150 c.ft.	14,52,588	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	7,162	74	7,236
14*a*. Ditto empty boats „	1,125	289	1,414
15. Total number of boats plying passenger ... No.	398	6	404
16. Total registered tonnage, cargo ... Tons	64,306	3,633	67,939
17. Total registered tonnage, passenger ... Tons	850	15	865
18. Ton-mileage	596,365	58,128	654,493
19. Estimated value of cargo Rs.	17,43,629	46,348	17,89,977
20. Number of passengers No.	2,411	17	2,428
21. Rafts, bamboos C. ft.	213	.....	213
22. Do., bullahs „	7,732	.....	7,732
23. Estimated value of rafts Rs.	19,365	.....	19,365
24. Tollage on boats „	10,384-15-9	876-12-6	11,261-12-3
25. Compounded tollage on boats ... Rs.	.....	.....	.....
26. Tollage on rafts „	38-4-0	.....	38-4-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·30
28. Ditto on rafts per 100 cubic feet ... Rs.	.....	.....	0-7-8

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	11,300	0	3
Total tollage of same month last year ..	11,477	9	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	233	11	0
2. Tollage per month ...	11,300	0	3
3. Total	11,533	11	3
4. Amount paid into Treasury during the month ...	11,140	13	9
5. Balance due at the end of the month ...	392	13	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons			Value.	Quantity.	Value	
		Up	Down.	Total.	Rupees.	Tons.	Rupees.	
24	(*a*) Jute ...	186	12	198	24,975	198	24,975	
99	(*b*) Jaggery ...	618	.....	618	60,602	618	60,602	
1	(*c*) Sugar ...	.....	1	1	180	1	180	
18	(*d*) Tobacco ...	152	20	172	33,600	172	33,600	
211	(*e*) Fish ...	16	1	17	4,649	17	4,649	
1	(*f*) Hides ...	4	.....	4	1,000	4	1,000	
4	(*g*) Poultry ...	1	.....	1	368	1	368	
266	(*h*) Hay and straw...	3,071	.....	3,071	13,086	3,071	13,086	
47	(*j*) Oil ...	459	5	464	65,000	464	65,000	
102	(*k*) Earthenware ...	97	3	100	1,398	100	1,398	
212	(*m*) Other miscellaneous.	1,319	55	1,374	3,10,210	1,374	3,10,210	
985	Total Miscellaneous...	5,923	97	6,020	5,15,068	6,020	5,15,068	

ABSTRACT FOR THE MONTH OF DECEMBER 1889, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1889-90.				Traffic, 1888-89.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	
Calcutta and Eastern Canals ...	44,131 13 3		2,35,334 1 6		45,276 6 0		2,80,654 3 6	
Tolly's Nullah	11,300 0 3		67,373 4 9		11,477 9 6		92,840 3 6	
Total ...	55,431 13 6		3,02,707 6 3		56,753 15 6		3,73,494 7 0	

Calcutta,
The 18th February 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 15th February 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 15th February 1890.			Week ending Saturday, the 16th February 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,850	3,71,195	6,429	1,556	4,39,270	7,869
Jute	199	1,33,325	2,401	193	93 725	1,738
Firewood	153	1,04,250	1,458	194	1,25,125	1,851
Other articles	1,038	2,47,710	3,669	1,125	2,30,470	3,653
Total ...	3,240	8,56,480	13,957	2,998	8,88,590	15,111

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks and three days ending 31st December 1889, as compared with the same period of 1888.

Staples.	1889.		1888.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living: Horses, ponies, and mules	No. 213	8,714	No. 372	18,592	do.	... ..	No. 159	9,878
Animals, living: Cattle	,, 366	1,764	,, 352	3,042	,, 14	... ..	,, ...	1,278
Animals, living: Sheep and goats	,, 6,548	5,304	,, 4,207	2,976	,, 2,341	2,328	,, ...	... ..
Animals, living: Other kinds	,, ...	.....	,, ...	... ..	,, ...	...	,, ...	... ..
Borax	1,680	1,030	620	248	1,060	782	.....	... ..
Canes and rattans	.....	.....	.....	.....	.....	.....	.....	... ..
Caoutchouc (Indian-rubber)	11	10	9	17	2	... .	.....	7
Chinese and Japanese ware	22	14	46	60	.....	.....	24	46
Coal and coke, up	7,82,277	1,93,726	9,84,837	3,30,006	... ..	.....	2,02,560	1,36,240
Ditto, down	29 84,961	3,07,539	35,72, 61	4,91,369	...	...	5,87,600	93,830
Cotton, raw	3,98,977	2,26,635	2,84,689	2,21,083	1,14,288	5,473	... ..	.....
Cotton, manufactured: Twist and yarn (European)	11,144	13,309	11,036	13,423	98	.....	... ..	114
Cotton, manufactured: Ditto (Indian)	17,328	11,549	20,499	13,779	.....	.....	3,171	2,230
Cotton, manufactured: Piece-goods (European)	1,62,448	1,73,378	1,89,325	2,10,838	... ..	.....	26,877	37,460
Cotton, manufactured: Ditto (Indian)	54,119	19 105	53,918	20,466	151	.....	.....	1,361
Drugs and medicines: Asafœtida	316	196	1,389	903	.....	.....	1,073	707
Drugs and medicines: Other sorts, not intoxicating	2,185	2,923	2,838	3,146	... .	... ..	653	223
Drugs and medicines: Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c)	932	682	771	833	161	.....	.....	151
Dyeing materials: Indigo	68,555	1,05,019	1,08,706	1,35,508	.....	.....	20,351	30,489
Dyeing materials: Madder or manjit	3	1	24	4	.....	.....	21	3
Dyeing materials: Safflower	87	151	87	121	... .	30	.....	.....
Dyeing materials: Turmeric	11,410	6,529	10,031	5,649	1,379	880	.. .	... ..
Dyeing materials: Other kinds	8,009	5,340	12,509	7,839	.....	.....	4,500	2,499
Earthenware and porcelain	985	1,938	1,075	2,048	.....	.....	90	150
Fibrous products: Jute, raw	88,183	17,044	1,46,982	28,996	... .	... ..	58,799	11,952
Fibrous products: Do., manufactured (gunny bags and cloths)	1,01,467	55,090	85,351	45,410	15,996	10,580	.....	.....
Fibrous products: Other fibres, raw	43,031	13,596	41,759	9,992	1,293	3,604	.....	.....
Fibrous products: Ditto, manufactured	2,851	1,249	3,481	1,520	.....	... ..	630	271
Fruits & Nuts: Cocoanuts	9,213	4,512	8,842	4,324	371	188	.....	.....
Fruits & Nuts: All other kinds	71,137	52,921	64,343	54,079	6,794	...	.....	1,758
Grain & Pulses: Wheat	3,16,870	1,07,437	2,72,700	92,657	43,080	44,740	... ..	... .
Grain & Pulses: Gram and pulses	4,54,730	1,20,785	2,50,950	65,495	2,01,770	55,400	.....	.....
Grain & Pulses: Rice, husked	10,62,436	1,48,609	10,00,026	2,30,328	62,610	.. ..	... ..	81,720
Grain & Pulses: Do., unhusked	6,175	2,402	30,755	4,702	...	... ..	30,580	2,300
Grain & Pulses: Other rain and spring crops	1,97,474	34,642	1,27,494	18,332	69,980	16,310	... ..	.....
Gums and resins	5,856	4,675	6,514	3,685	.....	990	658	.....
Hides & Skins: Hides of cattle	67,828	36 443	94,403	56,173	.....	... ..	26,575	19,730
Hides & Skins: Skins of sheep, goats, and small animals	18,424	8,725	19,442	10,378	.....	... ..	1,018	1,653
Horns	823	175	903	454	.....	... ..	330	279
Lac: Lac, dye	314	242	592	216	282	26	.....	... ..
Lac: Do., shell	18,855	12,782	21,472	15,573	... .	... ..	2,617	2,791
Lac: Do., stick and other kinds	23,156	7,193	31,274	9,897	.....	... ..	8,118	2,704
Leather: Leather, unmanufactured	2,327	4,612	2,502	5,302	.....	.....	275	670
Leather: Ditto, manufactured	3,003	5,001	3,749	6,143	.....	... ..	656	1,142
Liquors	20,148	21,829	23,906	20,072	.....	1,757	3,848	.....
Mats	576	340	693	306	.....	..	117	17
Metals and Manufactures of: Brass and copper	34,426	23 557	23,094	13,127	11,332	10,430	.....	.....
Metals and Manufactures of: Iron	1,56,801	98,729	1,51,824	89,608	4,977	9,121	.....	.....
Metals and Manufactures of: Other metals	8,807	7,707	7,537	6,432	1,270	1,275	.....	.....
Oils	1,46,062	81,341	97,600	51,540	49,062	29,801	... ..	.....
Opium	88,528	90 925	68,802	70,775	20,326	20,150	.....	.....
Paints and colours	10,879	2,337	2,779	2,236	8,100	41	.....	.....
Provisions: Ghee	44,558	28,768	40,907	24,900	3,651	3,859	.....	.....
Provisions: Other kinds	8,8..3	9,094	9,491	9,638	... ..	.....	638	544
Railway materials, Construction Account	46,342	2,151	1,04,387	5,072	... ..	... ..	58,045	2,921
Railway materials, Ditto ditto, Foreign	1,14,643	60,216	1,77,455	69,470	.....	... .	62,913	9,254
Salt	6,26,807	1,18,080	6,08,074	1,13,063	18,728	4,976	.. ..	.....
Saltpetre, &c: Saltpetre	85,100	35,415	1,00,824	40,200	.....	... ..	15,724	4,765
Saltpetre, &c: Other saline substances	12,337	4,170	14,700	4,312	.....	... ..	2,363	142
Seeds: Oil-seeds: Linseed	2,38,771	70,991	5,27,151	1,53,233	... .	... ..	2,88,380	84,242
Seeds: Oil-seeds: Mustard and rape	2,47,489	49,770	1,57,749	30,986	1,09,740	18,910	.....	... .
Seeds: Oil-seeds: Til or ginjelly	56,138	11,204	23,548	5 134	27,590	6,070	... .	.....
Seeds: Oil-seeds: Other oilseeds	77,7 0	23,444	96,020	28,704	.	... .	18,926	5,330
Seeds: Other seeds: Indigo seed	53,675	11,714	28,125	6,204	25,550	5,420	... ..	.....
Seeds: Other seeds: Tea seed	60	44	77	47	.. ..	... ..	17	3
Seeds: Other seeds: Other kinds	1,04,507	25,318	59,107	17,568	45,340	7,750	... ..	.....
Silk: Silk, raw	2,174	1,285	1,672	983	502	302	... ..	.....
Silk: Do., manufactured (European)	.....	.....	... ..	.....	.....	.....	.....	.....
Silk: Do., ditto (Indian)	140	34	593	471	... .	.....	423	437
Spices	14,373	10,305	11,028	8,709	2,445	2,006	... .	.....
Stone and marble	2,09,974	24,129	1,32,491	19,934	77,483	4,195	... ..	.....
Sugar: Sugar, refined	99,340	16,051	1,25,454	24,207	.	... ..	26,114	8,176
Sugar: Do., unrefined	5,50,603	99,779	3,20,608	66,264	2,29,995	33,515	... ..	.....
Tea: Tea, Indian	5,580	4,936	6,742	7,639	... .	.....	1,162	2,673
Tea: Do., Foreign	6	1	... ..	... ..	6	1	.....	.....
Tobacco	42,902	22,587	30,407	21,283	3,555	1,305	... ..	.....
Wood: Timber	65,420	11,094	29,190	5,847	36,210	5,457	.....	.....
Wood: Firewood	42,756	3,878	27,661	2,079	15,095	1,299	.....	.....
Wool: Wool, raw	4,275	4,091	1,043	1,250	2,033	2,841	... ..	.....
Wool: Do., manufactured (European)	1,995	2,460	2,063	2,602	.....	... .	68	142
Wool: Wool, manufactured (Indian)	2,842	3,193	3,644	4,372	.....	.....	802	1,182
Wool: Shawls	8	41	10	40	.....	... ..	2	8
All other articles of merchandise	5,38,823	1,94,513	4,55,038	1,85,480	... .	9,033	1,16,215	.....
Bones	47,214	12,893	25,777	6,269	21,437	6,627	.....	.....
Potatoes	1,11,969	56,373	90,572	50,332	14,007	5,951	.....	.....
Minerals	1,92,319	31,489	1,24 700	23,630	67,623	7,859	.....	.....
Government stores	32,457	58,378	30,497	5 ,910	1,960	7,448	.....	... ..
Total	1,09,53,123	31,68,580	1,13,18,246	33,53,223	13,07,511	8,40,428	15,73,035	5,34,971

General remarks on the fluctuation of principal staples carried over the East Indian Railway during month ended 31st December 1889.

INCREASES.

Cotton.—The increase under this head was due to increased despatches to Bombay and to Calcutta.

Gunny.—This increase was due to an improved market for gunny for bagging rice and baling cotton, and was principally in despatches from Howrah to Sahebgunge, Cawnpore, and the Great Indian Peninsula and North-Western Railways.

Government stores.—Due to fluctuations in Government requirements; the increased despatches were principally from Howrah and Chitpore.

Minerals.—Principally in kunkur from Rajbandh to Burdwan and other stations, and in lime from Raneegunge to the jetties for the Kidderpore Docks.

Brass and copper.—The increase was chiefly in the unmanufactured articles from Howrah, owing to cheaper prices than in 1888.

Iron.—The increase was principally due to the carriage at a specially reduced rate of a large quantity of old iron rails sold for delivery in Howrah, and also to increased despatches from Howrah to Agra and Allahabad for the new Water Works.

Oil.—This increase was entirely in kerosine oil from Howrah.

Opium.—Due to despatches of opium from the Government factories having been kept back during the previous month owing to unsettled weather.

Ghee.—Principally in despatches from stations in the North-Western Provinces to Howrah

Salt.—The principal fluctuations were in country salt crossing this Railway at Cawnpore, Agra, and Delhi.

Stone.—Principally in short distance despatches from Asansol, Durgapur, Pakur, Bindhachal, Agra.

Sugar and jaggree.—Chiefly in despatches from stations on the Gya line.

Timber.—Principally in sleepers from Howrah to Mokameh.

Bones.—Principally in bones from stations in the North-Western Provinces to Rally for the crushing mills.

Potatoes.—The increase was chiefly in hill potatoes from the Rohilkhund-Kumaon Railway, and in despatches from Dinapore and Digha Ghât.

Wheat.—Due to a slight demand for export to Europe during the early part of the month.

Grain and pulses.—The increase was due to considerable despatches from stations on the loop line and on the Dinapore district; also from the Oudh and Rohilkhund Railway *vid* Mogul Serai; and from stations between Allahabad and Agra to Howrah and Bombay.

Other rain and spring crops.—Due partly to a good demand in Calcutta supplied from stations on the Dinapore district and the Oudh and Rohilkhund Railway; but the principal increase was in despatches from Cawnpore and Mankar to Agra for local consumption.

DECREASES.

Coal and coke.—There was a decrease both in the upward and downward despatches. In downwards traffic the decrease was principally in coal for export.

Horses.—Due to an exceptional horse traffic having been carried last year.

Piece-goods.—The decrease was principally in despatches from Howrah to Cawnpore, Delhi, and other stations in the North-Western Provinces and the Punjab.

Indigo.—The decline follows a large increase in November 1889.

Jute.—The decrease was principally from the Purneah district *vid* Sahebgunge owing to poor crops.

Hides.—Supplies are reported to be scarce, and there is little demand from Europe.

Lac.—The traffic in shell and stick lac has shown a decline throughout the half year.

Railway material, Foreign.—Due to limited despatches for the Bengal-Nagpore and Delhi-Umballa-Kalka Railways.

Saltpetre.—The falling off was in despatches from the Tirhoot State Railway.

Seeds.—The decrease was entirely in linseed owing to exhaustion of stocks.

Rice (husked and unhusked).—There was an increase in the weight carried attended with a decrease in the freight earned, and this was due to short lead traffic.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, 12*th February* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8*th February* 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	269,943	3,01,366 2 0	26,68,851 0	6,30,700 2 6	20,261 15 0	9,52,328 3 6	66,190	97,401½	161,591½
Or per mile of railway ...	.....	197 8 10	.....	413 7 0	13 4 6	624 4 4	.....	.....	.....
For previous 5 weeks of half-year	1,200,108	13,66,340 4 0	1,16,33,098 20	26,03,992 14 6	91,461 14 0	41,21,795 0 6	301,658	413,576	715,234
Total for 6 weeks ...	1,470,051	16,67,706 6 0	1,43,01,949 20	32,94,693 1 0	1,11,723 13 0	50,74,123 4 0	367,848	508,977½	876,825½
COMPARISON.									
Total for corresponding week of previous year	277,103	3,17,671 15 4	20,03,018 0	6,08,020 15 6	15,849 7 3	9,36,451 6 1	68,771	97,633	166,404
Per mile of railway corresponding week of previous year ..	.....	208 2 10	.....	395 4 9	10 6 3	613 13 10	.....	.....	.....
Total to corresponding date of previous year	1,427,207	16,94,644 13 5	1,62,45,787 30	35,55,699 7 3	86,919 0 5	53,37,263 5 1	379,803	569,099	948,902

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 9th February 1889.			Receipts for week ending 8th February 1890.			Total receipts from 1st April 1888 to 9th February 1889.			Total receipts from 1st April 1889 to 8th February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,16,451	614	1,525½	9,52,328	624	1,525½	3,78,76,988	553	1,525½	3,76,35,190	548	.....	2,41,798

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 8th February 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P	Mds. s	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ...	12,061	6,983 2 0	37,864 30	2,391 14 0	52 0 0	9,427 0 0	1,807	603	2,410
Or per mile of railway	211	122 1 4	662 0	41 13 1	0 14 6	164 12 11	.....	.....	.....
For previous 5 weeks of half-year	59,120	30 584 6 0	1,61,080 20	10 931 11 0	272 8 0	41,750 9 0	8,061	3,440	11,510
Total for 6 weeks ...	71,181	37,567 8 0	1,98,945 10	13,325 9 0	284 8 0	51,177 9 0	9,868	4,053	13,920
Comparison									
Total for corresponding week of previous year	13,457½	6,991 1 6	22,102 10	1,634 8 0	39 5 3	8,264 14 9	1,931	463	2,394
Per mile of railway corresponding week of previous year ...	218	115 8 8	388 0	28 9 2	0 11 0	144 7 10	... ..	... ..	.....
Total to corresponding date of previous year	70,293	37,154 5 6	1,77,389 20	10,176 4 0	200 6 9	47,531 0 3	11,018	3,350	14,368

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th February 1889.			Receipts for week ending 8th February 1890.			Total receipts from 1st April 1888 to 9th February 1889.			Total receipts from 1st April 1889 to 8th February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	8,265	144	57½	9,427	165	57½	4,16,289	139	57½	4,33,609	168	17,320	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th February 1890, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	24,561	5,274 6 0	19,664 20	561 0 0	7 11 0	5,845 1 0	890	78	968
Or per mile of railway ...	.....	237 0 10	.....	25 4 10	0 5 6	262 11 2	.. ..	.....	.....
For previous 5 weeks of half-year	88,041	22,305 1 0	81,463 20	2,096 8 0	33 15 0	24,345 8 0	4,119	319	4,438
Total for 6 weeks ...	113,202	27,579 7 0	73,128 0	2,569 8 0	41 10 0	30,190 9 0	5,009	397	5,406
Comparison.									
Total for corresponding week of previous year .. .	20,748	5,419 0 9	7,878 30	270 11 0	10 12 0	5,700 7 9	925	43	968
Per mile of railway corresponding week of previous year	.....	243 8 10	.....	12 2 8	0 7 9	256 3 8	.....	.....	.....
Total to corresponding date of previous year	111,516	28,213 2 4	52,470 10	1,821 1 0	41 15 9	30,076 3 1	5,159	363	5,522

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th February 1889.			Receipts for week ending 8th February 1890.			Total receipts from 1st April 1888 to 9th February 1889.			Total receipts from 1st April 1889 to 8th February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs.
22½	5,700	256	22½	5,845	263	22½	2,56,988	237	22½	2,54,187	234	.....	2,771

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 1st February 1890, on 747 miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings	Traffic Train-miles run		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s	Rs. A. P	Rs. A. P	Rs. A. P.			
Total traffic for the week ...	147,780	80,670 0 0	6,83,760 0	1,29 940 0 0	26 620 0 0	2,37,430 0 0	22,981	33,487	56,468
Or per mile of railway	198	108 0 0	915 0	174 0 0	*13 0 0	295 0 0	... ..	...	.
For previous 4 weeks of half-year	556,510	2,74,260 0 0	25,12,320 0	5,37,600 0 0	57,190 0 0	8,69,050 0 0	82,143	132,118	214,261
Total for 5 weeks	704,290	3,54,930 0 0	29,96,080 0	6,67,540 0 0	84,010 0 0	11,06,480 0 0	105,124	165,605	270,729
COMPARISON									
Total for corresponding week of previous year ..	129,004	79,325 0 0	5,40,724 0	87,188 0 0	25,290 0 0	1,91,803 0 0	23,185	24,430	46,615
Per mile of railway corresponding period of previous year .	193	118 0 0	803 0	130 0 0	*12 0 0	260 0 0	.....	.....	.....
Total to corresponding date of previous year	654,769	3,38,364 0 0	24,26 800 0	5,22,488 0 0	78,157 0 0	9,39,009 0 0	103,018	135,537	238,555

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway

Receipts for week ending 2nd February 1889			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to 2nd February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,91,803	285	747	2,37,430	318	673	91,81,398	316	725	*97,32,715	305	5,51,317	.....

* Audited up to week ending 14th December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st February 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated)	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds s.	Rs A. P.	Rs. A. P.	Rs. A P.			
Total traffic for the week ...	24,840	11,850 0 0	53,140 0	2,830 0 0	90 0 0	14,770 0 0	3,736	1,936	5,672
Or per mile of railway	198	95 0 0	425 0	23 0 0	1 0 0	118 0 0		.....	.....
For previous 4 weeks of half-year	98,490	37,080 0 0	1,68,100 0	9,470 0 0	270 0 0	46,820 0 0	13,143	6,916	20,268
Total for 5 weeks ...	123 330	48,930 0 0	2,01,24) 0	12,300 0 0	360 0 0	61,590 0 0	17,078	8,852	25,930
COMPARISON.									
Total for corresponding week of previous year	24,856	9,113 0 0	55 622 0	2,454 0 0	76 0 0	11,643 0 0	3,789	1,941	5,680
Per mile of railway corresponding period of previous year	199	73 0 0	444 0	19 0 0	1 0 0	93 0 0	....	.....	.. ...
Total to corresponding date of previous year	122,906	44,005 0 0	2,20,033 0	10,668 0 0	3,675 0 0	58,348 0 0	17,685	9,138	26,773

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 2nd February 1889			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1889 to 2nd February 1889.			Total receipts from 1st April 1889 to 1st February 1890			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,643	93	125	14,770	118	125	6,04,503	110	125	*6,31,795	115	27,292	.....

* Audited up to week ending 14th December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st February 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	16,930	5,490 0 0	30,850 0	2,870 0 0	250 0 0	8,610 0 0	2,482	622	3,104
Or per mile of railway	197	64 0 0	359 0	33 0 0	3 0 0	100 0 0	.....	.....	.....
For previous 4 weeks of half-year	61,300	22,880 0 0	1,31,100 0	13,470 0 0	700 0 0	37,050 0 0	8,854	3,498	12,352
Total for 5 weeks ...	78,230	28,370 0 0	1,61,950 0	16,340 0 0	950 0 0	45,660 0 0	11,336	4,120	15,456
Comparison.									
Total for corresponding period of previous year	16,745	4,778 0 0	15,567 0	1,515 0 0	237 0 0	6,550 0 0	2,482	622	3,104
Per mile of railway corresponding period of previous year ...	195	55 0 0	181 0	18 0 0	3 0 0	76 0 0	.....	.....	.....
Total to corresponding date of previous year	73,704	22,092 0 0	59,642 0	6,336 0 0	690 0 0	29,118 0 0	11,727	2,939	14,666

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 2nd February 1889.			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to end February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,550	76	86	8,610	100	86	2,52,592	67	86	*3,30,582	87	77,990	.....

* Audited up to week ending 14th December 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th February 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs A. P.			
Total traffic for the week ...	3,160	1,132 0 0	10,972 0	641 0 0	15 0 0	1,788 0 0	509	254	763
Or per mile of railway	123	42 0 0	403 0	23 0 0	1 0 0	66 0 0	.....	.....	.....
For previous 4 weeks of half-year	13,304	4,839 0 0	85,457 0	4,036 0 0	65 0 0	8,940 0 0	2,327	1,161	3,488
Total for 5 weeks ...	17,164	5,971 0 0	76,409 0	4,677 0 0	80 0 0	10,728 0 0	2,836	1,415	4,251
Comparison.									
Total for corresponding week of previous year	3,400	1,431 0 0	18,155 0	1,035 0 0	12 0 0	2,478 0 0	509	636	1,145
Per mile of railway corresponding week of previous year ...	125	53 0 0	666 0	38 0 0	.....	91 0 0	.....	.....	.....
Total to corresponding date of previous year	18,334	6,913 0 0	92,864 0	4,917 0 0	97 0 0	11,927 0 0	2,908	3,274	6,182

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 9th February 1889.			Receipts for week ending 8th February 1890.			Total receipts from 1st April 1888 to 9th February 1889.			Total receipts from 1st April 1889 to 8th February 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,478	91	27¼	1,788	66	27¼	87,168	74	27¼	86,536	74	.....	632

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th February 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	77,541	a36,163 0 0	2,41,587 0	28,645 0 0	4,898 0 0	69,706 0 0	7,302	8,328	15,630
Or per mile of railway ...	284	133 0 0	885 0	105 0 0	3 0 0	241 0 0*	.....	.....	.....
For previous 4 weeks of half-year	206,211	91,397 0 0	11,30,650 0	1,26,813 0 0	23,578 0 0	2,41,788 0 0	28,066	39,750	67,816
Total for 5 weeks ...	283,752	127,560 0 0	13,72,237 0	1,55,458 0 0	28,476 0 0	3,11,494 0 0	35,368	48,078	83,446
Comparison.									
Total for corresponding week of previous year	40,973	16,777 0 0	1,51,932 0	14,391 0 0	3,319 0 0	34,457 0 0	5,973	6,497	11,476
Per mile of railway corresponding week of previous year ...	150	61 0 0	557 0	53 0 0	1 0 0	115 0 0*	.....	.....	.....
Total to corresponding date of previous year	218,467	81,718 0 0	7,81,376 0	72,173 0 0	17,730 0 0	1,71,611 0 0	31,900	31,203	63,109

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
a Increase is due to *Maghi Purnamashi* Mela.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 9th February 1889.			Receipts for week ending 8th February 1890.			Total receipts from 1st April 1888 to 9th February 1889.			Total receipts from 1st April 1889 to 8th February 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	34,457	126	273	69,706	255	264·87	14,21,114	135	273	17,96,480	153	3,77,316	.....

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WEDNESDAY, FEBRUARY 26, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 167A.

GENERAL.—*The 12th February* 1890.—Mr. Nilkanto Sircar, Deputy Collector, is appointed to perform the functions of a Collector under section 4 of the Public Demands Recovery Act VII (B.C.) of 1880 in the district of Beerbhoom.

The 20th February 1890.—Mr. W. C. Macpherson, Officiating Magistrate and Collector, Purneah, is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the 5th proximo.

Mr. E. W. Collin, Joint-Magistrate and Deputy Collector, is appointed to act as Magistrate and Collector of Purneah, during the absence, on leave, of Mr. W. C. Macpherson, or until further orders.

Mr. D. B. Allen, Officiating Magistrate and Collector, Pooree, is allowed furlough for nine and a half months, under article 340 of the Civil Service Regulations, with effect from the 28th instant.

Mr. F. W. Duke, Officiating Joint-Magistrate and Deputy Collector, Pooree, is appointed to act, until further orders, as Magistrate and Collector of that district.

The 22nd February 1890.—Baboo Bejoy Madhub Mookerjee, Deputy Magistrate and Deputy Collector, Narail, Jessore, is allowed leave for two months and fifteen days, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Baboo Ganendra Nath Pal, Deputy Magistrate and Deputy Collector, on leave, is appointed to have charge of the Narail sub-division of the district of Jessore, during the absence, on leave, of Baboo Bejoy Madhub Mookerjee, or until further orders.

The 24th February 1890.—Mr. A. W. B. Power, Officiating Magistrate and Collector, Chumparun, is allowed furlough for seven months, under article 340 of the Civil Service Regulations, with effect from the 22nd proximo, or such subsequent date as he may be relieved.

Mr. W. D. Blyth, Inspector-General of Registration, is appointed to act, until further orders, as Magistrate and Collector of Chumparun.

Mr. B. G. Geidt, Joint-Magistrate and Deputy Collector, Sarun, is allowed furlough for eight months, under article 340 of the Civil Service Regulations, with effect from the 31st March 1890, or such subsequent date as he may avail himself of it.

Mr. J. Posford, Officiating District and Sessions Judge, Tipperah, is allowed furlough for nine months, under article 340 of the Civil Service Regulations, with effect from the 11th March 1890, or such subsequent date as he may avail himself of it.

Mr. S J. Douglas, Joint-Magistrate and Deputy Collector, Gya, is appointed to act, until further orders, as District and Sessions Judge of Tipperah.

Mr. A. A. Wace, Magistrate and Collector, Bhagulpore, is allowed furlough for eight months, under article 340 of the Civil Service Regulations, with effect from the 7th March 1890, or such subsequent date as he may avail himself of it.

Mr. R. M. Waller, Officiating Magistrate and Collector, Futteedpore, is appointed to act as Magistrate and Collector of Bhagulpore, during the absence, on furlough, of Mr. A. A. Wace, or until further orders.

Mr. H. Beveridge, Additional District and Sessions Judge, 24-Pergunnahs and Hooghly, is allowed leave for one month, under article 306 (*b*) of the Civil Service Regulations, with effect from the 20th proximo.

Mr. C. A. Wilkins, District and Sessions Judge, Bhagulpore, is appointed to act as Additional District and Sessions Judge of the 24-Pergunnahs and Hooghly, during the absence, on leave, of Mr. H. Beveridge, or until further orders.

Mr. F. W. Badcock, Officiating District and Sessions Judge, Rajshahye, is appointed to act as District and Sessions Judge of Bhagulpore, during the absence, on deputation, of Mr. C. A. Wilkins, or until further orders.

Mr. F. E. Pargiter, Joint-Magistrate and Deputy Collector, is appointed to act, until further orders, as District and Sessions Judge of Rajshahye.

The 25th February 1890.—Baboo Kedar Nath Dutt, Deputy Magistrate and Deputy Collector, Cuttack, is allowed leave for two and a half months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Mr. C. Johnston, Assistant Magistrate and Collector, Kandi, Moorshedabad, is transferred to the Sudder station of the district of Cuttack.

Baboo Mohendra Nath Gupta, Deputy Magistrate and Deputy Collector, on furlough, is posted to Gya, and appointed to have charge of the Aurungabad sub-division of that district.

Baboo Sree Nath Bhudder, Deputy Magistrate and Deputy Collector, Chittagong, is allowed furlough for one year, under article 371 of the Civil Service Regulations.

Mr J. F. Bradbury, Officiating District and Sessions Judge of the first grade, is confirmed in that grade, with effect from the 20th instant, *vice* Mr. J. R. Hallett, retired.

Mr. A. W. Mackie, Officiating District and Sessions Judge, Rungpore, is appointed to be a District and Sessions Judge of the second grade, with effect from the 20th instant, *vice* Mr. J. F. Bradbury.

Mr. C. S. Bayley, substantive *pro tempore* Joint-Magistrate and Deputy Collector of the first grade, is confirmed in that grade, with effect from the 20th instant, *vice* Mr. A. W. Mackie, but will continue to be seconded.

Mr. S. J. Douglas, Joint-Magistrate and Deputy Collector, Gya, is promoted substantively *pro tempore* to the first grade of Joint-Magistrates and Deputy Collectors, with effect from the 20th instant, *vice* Mr. C. S. Bayley.

Mr. G. A. Grierson, Officiating Magistrate and Collector, Gya, is allowed leave for one day, under article 291 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 11th October 1889.

Mr. F. H. Barrow, Magistrate and Collector, is appointed to act, until further orders, as Magistrate and Collector of Gya.

Mr. C. A. Radice, Assistant Magistrate and Collector, Moorshedabad, is transferred to Tipperah.

Mr. B. De, Officiating Magistrate and Collector, Khoolna, is appointed to act, until further orders, in the second grade of Magistrates and Collectors, with effect from the 19th instant, *vice* Mr. D. B. Allen, on furlough.

POLICE.—*The 21st February* 1890.—Mr. A. R. G. Hampton, Officiating Assistant Superintendent of Police, Mymensingh, is transferred to Serajgunge in Pubna.

The 24th February 1890.—Mr. R. F. Guise, District Superintendent of Police, Khoolna, is transferred to Balasore.

The 25th February 1890.—Mr. O. S. Stack, Deputy Inspector-General of Police, is allowed special leave for six months, under article 348 of the Civil Service Regulations, with effect from the 1st April next, or such subsequent date as he may avail himself of it.

Mr. A. H. Giles, District Superintendent of Police, is appointed to act as a Deputy Inspector-General of Police, during the absence, on special leave, of Mr. O. S. Stack, or until further orders.

REGISTRATION.—*The 25th February* 1890.—Munshi Hadi Ali Khan, Special Sub-Registrar, Gya, was on leave from the 9th to the 15th September 1889, both days inclusive, under article 291 of the Civil Service Regulations.

Moulvie Fazalullah, Rural Sub-Registrar, Jehanabad, Gya, acted as Special Sub-Registrar, Gya, from the 13th to the 15th September 1889, both days inclusive, *vice* Munshi Hadi Ali Khan, on leave.

Baboo Bepin Behary Sircar, who was under orders, dated the 20th August 1888, appointed on probation for six months to be Rural Sub-Registrar of Kandi, in the district of Moorshedabad, is confirmed in that appointment.

Moulvie Syed Abdur Raub, Special Sub-Registrar, Burrisal, is appointed to be Special Sub-Registrar of Bogra.

Moulvie Syed Mahomed Hossein, Officiating Special Sub-Registrar of Burrisal, is confirmed in that appointment.

EDUCATION.—*The 25th February* 1890.—Mr. S. C. Hill, Principal, Krishnaghur College, is appointed to act as Inspector of Schools, Behar Circle, during the absence, on furlough, of Dr. C. A. Martin, or until further orders.

Mr. W. Billing, Officiating Professor, Hooghly College, is appointed to act as Principal, Krishnaghur College, during the absence, on deputation, of Mr. S. C. Hill, or until further orders.

MEDICAL.—*The 25th February* 1890.—Apothecary Isaac Burnett, House Surgeon, Mitford Hospital, Dacca, is appointed to act as House Surgeon, Howrah General Hospital, during the absence, on furlough, of Apothecary W. A. Williams, or until further orders, with effect from the afternoon of the 20th January 1890.

Surgeon-Major H. W. Hill, Civil Surgeon of Manbhoom, is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

The following notifications are republished from the *Assam Gazette*:—

No. 965*G.*—*The 8th February* 1890.—In consequence of the return to duty of Mr. R. R. Pope, C.S., Assistant Commissioner, first grade, the following Assistant Commissioners reverted to the grades of Assistant Commissioners noted against their names, with effect from the 7th January 1890:—

Mr. W. Teunon, C.S., to second grade. | Mr. W. H. Cossins, C.S., to third grade.

No. 1121*G.*—*The 14th February* 1890.—Mr. J. T. Rivett-Carnac, Officiating Commandant, Military Police, Garo Hills Battalion, and Mr. L. St. J. Brodrick, Assistant Superintendent of Police, Naga Hills, are posted for duty with the Surma Valley Military Police Battalion.

No. 1122*G.*—Mr. S. N. Walker, Assistant Superintendent of Police, whose services were placed at the disposal of the Chief Commissioner in Home Department Notification No. 69, dated the 22nd January 1890, is posted for duty with the Surma Valley Military Police Battalion.

No. 377*R.*—*The 13th February* 1890.—The Chief Commissioner invests Mr. W. Teunon, C.S., Assistant Commissioner, with the powers of a Collector under Act X of 1870 (an Act for the acquisition of land for public purposes), to be exercised within the district of Sylhet.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT—(FORESTS).

NOTIFICATION.

The 18th February, 1890.—The following temporary promotions are ordered with effect from the 30th December, 1889:—

Mr. G. A. Richardson, Deputy Conservator of Forests, third grade, to officiate as Deputy Conservator of Forests, second grade.

Mr. C. A. G. Lillingston, Deputy Conservator of Forests, fourth grade, to officiate as Deputy Conservator of Forests, third grade.

Mr. C. G. Rogers, Assistant Conservator of Forests, first grade, to officiate as Deputy Conservator of Forests, fourth grade.

Mr. H. D. D. French, Assistant Conservator of Forests, second grade, to officiate as Assistant Conservator of Forests, first grade.

P. NOLAN,
Secretary to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 18th February, 1890.—Mr. P. J. Luard, Sub-Deputy Opium Agent, Benares Agency, is allowed furlough for six months, under article 371 of the Civil Service Regulations, with effect from the 12th April, 1890, or any subsequent date from which he may avail himself of it.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 18th February, 1890.—Mr. W. H. T. Howey, Assistant Sub-Deputy Opium Agent, Benares Agency, is allowed leave on private affairs for six months, under article 370 of the Civil Service Regulations, with effect from the 10th April, 1890, or any subsequent date from which he may avail himself of it.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 25th February, 1890.—With reference to the Government notification, dated the 11th December, 1889, published at page 1036, Part I of the *Calcutta Gazette* of the 18th idem, Baboo Kali Sunker Sen is hereby appointed, under rule 1, chapter VI of the rules made by Government under the Bengal Tenancy Act, to be Settlement Officer of Pergunnah Serail in the district of Tipperah.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 25th February, 1890.—With reference to the Government notifications dated the 14th January, 1890, under section 3 of Act V (B C.) of 1875, regarding the survey of certain lands in the districts of Cuttack and Pooree, the Lieutenant-Governor is pleased to appoint the following officers to be Assistant Superintendents of Survey, under section 4 of the same Act, for the purpose of carrying out such survey :—

Mr. W. H. Paterson.
„ R. B. Smart.
Mr. R C. D. Ewing.
„ C. S. Kraal.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 19th February, 1890.—The following Resolution of the Government of India, in the Military Department, regarding the formation of Volunteer Reserves, is published for general information.

P. NOLAN,
Secretary to the Govt. of Bengal.

GOVERNMENT OF INDIA.

MILITARY DEPARTMENT.

Extract from the Proceedings of the Government of India, in the Military Department,—(No. 541-B, under date Fort William, the 12th February 1890).

READ the undermentioned papers :—

Letter from North-Western Provinces Government, No. 862-III—4542, dated 27th November 1884, and enclosures.
Letter to North-Western Provinces Government, No. 586-E, dated 13th March 1885.
Letter to Madras Government and others, No. 587-E, dated 13th March 1885.
Letter from Chief Commissioner, Burma, No. 269-21-V, dated 13th August 1885, and enclosures.
Letter from Bombay Government, No. 4605, dated 26th August 1885, and enclosures.
Letter to Bombay Government No. 212-E, dated 22nd September 1885.
Letter from Bengal Government, No. 1117, dated 9th December 1885, and enclosures.
Letter from Bengal Government, No. 1118, dated 9th December 1885, and enclosures.
Letter from Adjutant-General in India, No. 1161-D, dated 29th March 1889.
Letter to Bombay Government, No. 1131-B, dated 6th May 1887.
Letter to Bengal Government, No. 1132-B, dated 6th May 1887.
Letter to Bengal Government, No. 1133-B, dated 6th May 1887.
Letter to Bombay Government, No. 1134-B, dated 6th May 1887.
Letter to Chief Commissioner, Burma, No. 263-B, dated 31st January 1888.
Letter from Punjab Government, No. 145, dated 2nd August 1888, and enclosures.
Letter to Punjab Government, No. 1969-B, dated 15th August 1888.
Letter to Madras Government, No. 1994-B, dated 18th July 1888.
Letter from Madras Government, No 4493, dated 4th July 1888, and enclosures.
Letter to Madras Government, No 1564-B, dated 19th July 1888.
Letter to Madras Government, No. 2035-B, dated 24th September 1888.
Letter to Bombay Government, No. 799-B, dated 20th March 1889.
Letter to Bengal Government, No. 800-B, dated 20th March 1889.
Letter to Chief Commissioner, Burma, No. 801-B, dated 20th March 1889.
Letter from Chief Commissioner, Burma, No. 156-8-V, dated 5th April 1889, and enclosures.
Letter to Chief Commissioner, Burma, No. 1091-B, dated 29th April 1889.
Letter to Madras Government, No. 2149-B, dated 26th August 1889.
Letter to Punjab Government, No. 2150-B, dated 26th August 1889.
Letter to Bengal and Bombay Governments, No 2151-B, dated 26th August 1889.
Letter from Bengal Government, No. 85-TG, dated 23rd October 1889, and enclosures.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 26, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 12th February 1890.—It is hereby notified for general information that, in exercise of the power vested in the Local Government by section 351 of Act III (B.C.) of 1884, and on the recommendation of the Commissioners of the Lohardugga Municipality, made at a meeting, the Lieutenant-Governor confirms the bye-laws set forth below, which have been framed by the Commissioners of the said Municipality, under section 350 of the said Act.

I.—For regulating business at meetings.

1. Meetings shall be either ordinary or special.

2. An ordinary general meeting of the Commissioners shall be held on the last Saturday of every month, unless the Chairman for any special reasons shall fix any other day

3. A special meeting may be called at any time by the Chairman or the Vice-Chairman.

4. All such meetings shall be convened by the Chairman, or in his absence by the Vice-Chairman, by notice to be served on each Commissioner not later than three days preceding the date of the meeting.

5. Notices of motions must be sent to the Chairman or Vice-Chairman at least two days before the meeting convened by the Chairman or Vice-Chairman. Notices received too late will be inserted in the list of business of the next succeeding meeting.

6. Meetings shall be held at the office of the Commissioners or at such place as the Commissioners in a general meeting may from time to time determine.

7. A notice-book shall be kept by the Chairman, in which all notices shall be entered. All such notices shall be dated and numbered as received.

8. Every notice convening a meeting shall be accompanied by a list of the business to be brought forward at such meeting, signed by the Chairman or Vice-Chairman.

9. At ordinary meetings the business shall be transacted in the following order, unless the President, with the consent of the majority of Commissioners present, determine otherwise:—

(*a*) The minutes of last ordinary meeting and of any special meeting held since shall be read, and if approved of as correctly entered, shall be confirmed and signed by the Chairman of the meeting.

(*b*) All correspondence of importance from higher authorities.

(*c*) Any business postponed from the last ordinary meeting shall be considered.

(*d*) The business contained in the notice of the meeting prescribed by rule 4 above shall be considered in the order in which it appears in the notice paper, unless the President, with the consent of the majority of the members present, determine otherwise.

10. No business shall be considered or proposition received at any meeting if it does not appear in the list of business, except with the consent of the majority of the Commissioners present.

11. Every motion or amendment duly made must be seconded, and until seconded no discussion on it shall take place.

12. After a motion has been moved and seconded, an amendment may be moved at any stage of the debate thereon.

13. When a motion or an amendment has been declared by the Chairman to be duly carried, no further proposal for amending the motion or amendment can be entertained.

14. Unless not less than two-thirds of the Commissioners consent by signing a requisition, no subject once finally disposed of can be reconsidered within six months.

II.—For regulating the conduct of persons employed by the Commissioners.

15. The Commissioners may fine, suspend or degrade any officer or servant engaged by them for neglect of duty or misconduct. The fine not to exceed one month's pay.

16. The Municipal officers or servants shall be liable to a fine, in addition to a forfeiture of their pay, for absence without leave; the fine not to exceed the amount of their pay for the day or days they are so absent.

17. The Commissioners may grant leave of absence to the officers or servants engaged by them either with or without pay.

18. As to the leave granted to Municipal officers, the Government rules shall apply as far as practicable.

III.—For regulating traffic in the streets.

19. No owner of any cart, carriage, or other vehicle shall allow it to be driven by a driver under 16 years of age.

20. No long bamboos shall be carried through the streets after sunset and before sunrise either by men or carts.

21. No person shall leave or keep any truck, cart or carriage or other vehicle standing on any public road except only when engaged in taking up and setting down passengers or in loading or unloading goods.

22. No person shall make a shop over any public road or drain, or in any way occupy any culvert, bridge or platform which may have been placed over any public drain, except with the permission of the Commissioners.

23. No person shall slaughter animals on or by the side of a public road.

24. No procession accompanied by beat of drum or by a band of music shall be allowed on a public road without the written permission of the Commissioners previously obtained.

25. All owners and drivers of carts laden with bricks or other materials shall be responsible for their being so secured that the contents may not fall on the road.

26. No person shall, without the permission of the Commissioners, take more than ten head of cattle at one time along any of the public roads within the limits of the Municipality, except by such routes as shall be fixed for the purpose from time to time by the Municipal Commissioners.

27. No person shall let loose or allow to be let loose or allow to get loose any diseased or worn-out animals, or use or cause to be used any such animal for the purpose of drawing any cart or other conveyance within municipal limits.

28. No person shall allow any pig to be at large or keep them otherwise than in closed styes.

29. No person shall let off any fire-balloon, firework or firearms in or near the public roads or lanes within the Municipality without the permission of the Commissioners, nor otherwise than as the Commissioners shall direct.

30. No person shall accumulate straw, jute, timber, bricks or any other materials on any public road without the permission of the Commissioners.

31. Any person required by the Act or by any bye-law under it to take out a license shall produce and show his license when required to do so by any person empowered by the Commissioners to make such requisition.

The penalty for the infringement of any one of the bye-laws from Nos. 19 to 31 shall be a fine not exceeding Rs. 20, and for continued infringement after sentence a daily fine not exceeding Rs. 5.

IV.—General bye-laws.

32. No person shall put or cause to be put on any house or other building any spout or other thing intended for the conveyance or discharge of water in such a manner that the water discharged therefrom shall be thrown into or fall upon any public road or thoroughfare.

33. No person shall keep filth, dirt, dung, ashes, bones, dead bodies, rubbish or other matter of a noxious kind on any public road, street or lane, or within close proximity to such public roads or lanes, except for the purpose of immediate removal.

34. No person shall, without the written permission of the Commissioners, set up any obstruction in any drain or water-course, and the Commissioners may order the removal of any such obstruction. (Spreading fishing nets and placing fishing traps in a drain or water-course come under the definition of obstruction)

35. No person shall deposit or cause to be deposited any carcass of any animal in any place other than those appointed by the Commissioners.

36 No refuse resulting from any business, trade or profession shall be removed by the Municipal Commissioners except on payment for removal at the rate to be fixed by the Commissioners from time to time, and any expense incurred on this account shall be recoverable as a debt due to the Commissioners

37. The Commissioners may require the owner or occupier of any pit, cesspool or other excavation to fill it up within a fixed time, if it appears to them to be injurious to public health. If such owners or occupiers do not comply with the order or requisition as mentioned above, the Commissioners may, instead of imposing any penalty, fill up the pit, cesspool or excavation at their own cost, to be realized from the owner or occupier under section 360 as a debt due to the Commissioners.

38. When the owners or occupiers of any land have been ordered, under section 200 of the Act, to cleanse any water-course, private tank or pool therein, they may, in addition, be ordered to remove the weeds instead of accumulating them on the slopes or banks of the tank, water-course or pool.

39. The owner or occupier of any part of the bank of any water-course or tank which is used by the public or any section of the community, or of the bank of a public drain or a private drain leading to a public drain, shall keep it free from filth, jungle and weeds; and the Commissioners may give notice, in writing, to the owner of any trees or shrubs overhanging such water-course or tank, and likely to foul the water thereof, to cut or trim the same in such a manner as the Commissioners shall direct. The Commissioners may also give a like notice to the owner of trees or shrubs overhanging any public drain or private drain leading to a public drain, and likely in any way to injure such drains and obstruct the clearing of them, to cut or trim them in such a manner as the Commissioners may think proper.

40. No person suffering from a contagious skin disease shall bathe in any tank used as a public bathing-place

41. No washerman or other person shall wash clothes in any tank or water-course except those which the Commissioners shall set apart for the purpose.

42. No person shall erect or place over a public road any kind of structure or obstruction without the written permission of the Commissioners previously obtained.

43. No person shall, without the permission of the Commissioners, cut sods or grass or remove any earth or grass from any public road or from the margin or slopes of any road or drain.

44. No person shall dig or remove from or deposit earth or any other substance in or make any alterations whatever in any public drain, or throw or place any offensive matter or rubbish on such drains without the permission of the Commissioners.

45. No person shall enlarge or deepen any existing tank or other excavation or dig a new one without the permission of the Commissioners.

46. No person shall quarry kunker, cut timber or grass or damage trees, or remove or damage any property, or deface the blocks on which the names of any road or street are engraved, or remove any boundary marks or pillars being the property of the Commissioners and within municipal limits.

47. No person shall break or cause to be broken any wall, fence, rail or post constructed for the protection of any public well, tank, drain or other excavation.

48. When any person erects any hut or building in contravention of the provision of section 236 and the bye-laws framed under it, the Commissioners shall have power to issue notice on such person to remove the external covering of his hut or building made of inflammable materials within one month, and on his failure to execute the work, the Commissioners shall have power to execute it by their own men or otherwise at their own cost, and recover the same from the owner or occupier of such house or hut as a debt due to the Commissioners.

49. No person desiring to construct a pucca privy shall do so, except with the permission of the Municipal Commissioners and according to the plan approved of by them.

50. No person shall build or cause to be built or keep after prohibition by the Commissioners any tattee, privy or urinal within 10 feet of any public road or street. In case there is no wall at least 5 feet high between a privy and a public road, the distance from the former to the latter is to be at least 30 feet.

51. No person shall burn or cause to be burnt a corpse, or build or dig or cause to be built or dug a grave in any other place than those set apart or recognized by the Commissioners.

52. No grave once used shall be opened for the burial of another, and no grave shall be dug or built having less than 5 feet depth.

53. No person when burning or causing to be burnt any corpse in any burning ground shall permit the same to remain without being completely reduced to ashes, or shall permit the clothes or other articles connected with the burning of such corpse to remain at or near such burning-ground unless the same be completely reduced to ashes.

The penalty for infringement of any one of the bye-laws from numbers 32 to 53, both inclusive, shall be a fine not exceeding Rs. 20, and for continued infringement a daily fine not exceeding Rs. 5.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 19th February 1890.—Whereas a notification, dated the 24th November 1889, announcing the intention of the Lieutenant-Governor to extend the provisions of the Bengal Vaccination Act V (B.C.) of 1880 to the Tangail Municipality, in the district of Mymensingh, was published at page 261, Part IB of the *Calcutta Gazette* of the 27th idem, and whereas no objection has been raised to the proposal within six weeks from the date of the publication of the notification within the Municipality, it is hereby notified for general information that, in exercise of the power conferred on him by section 1 of the said Act, the Lieutenant-Governor extends the provisions of the Act to the said Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 19th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Puna Lal to be a Commissioner of the Daudnagar Municipality, in the district of Gya, *vice* Baboo Lalji Pershad, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 19th February 1890.—It is notified for general information that the declaration, dated the 21st November 1887, published at page 282, Part IB of the *Calcutta Gazette* of the 23rd idem, for the acquisition of a plot of land required by the Dacca Municipality for the excavation of new tanks for the water-works of the town, is hereby cancelled.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 22nd February 1890.—It is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 4 of Act XX of 1887, the Lieutenant-Governor has been pleased to declare that the provisions of section 3 of the said Act with respect to wild birds shall apply, so far as regards the rules that may be framed by the Commissioners of the Cuttack Municipality with the approval of Government, to deer, hares and antilope.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th February 1890. It is hereby notified for general information that, in the exercise of the power vested in the Local Government by section 221, Act III (B.C.) of 1884, and in accordance with the recommendation of the Commissioners of the Naihati Municipality, made at a meeting, the Lieutenant-Governor sanctions the extension of the provisions of sections 220 to 225, 229, 231, 234, 235, 245 to 251, 254 to 262, 265, 266, 268, 269, 270 with the exception of clause 4, 271, 272, 273 with the exception of clause 4, 274 and 277 of Part VI of the said Act, to the whole of the said municipality except the villages of Bhatpara, Kantalpara, Naihati, and Gorifa, to which the above provisions have already been extended by notification dated 3rd December 1889, published at page 269 of Part IB of the *Calcutta Gazette* of the 4th idem. The Lieutenant-Governor further sanctions the extension of the provisions of sections 237, 238 and 241 clauses 1 and 2, to the whole municipality, except the villages of Bhatpara, Kantalpara, Naihati, and Gorifa, to which the above provisions have already been extended by the aforesaid notification and excepting also the premises occupied by the Eastern Bengal Railway Company for the purposes of the Kanchrapara and Shamnagar railway stations.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Tara Prasanna Ghose to be the Chairman of the Raghunathpore Municipality in the district of Manbhoom, *vice* Baboo Nanda Lall Koondoo, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that, under section 19, clause (3) of the Bengal Local Self-Government Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Moulvi Abdul Haq Khan to be a member of the District Board of Noakhally, in the place of Munshi Amzad Ali, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Abhilash Chandra Mukerjea to be a Commissioner of the Rampore Beaulcah Municipality, in the district of Rajshahye, *vice* Baboo Preonath Chatterjea who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Burdwan Local Board, in the district of Burdwan, under section 25 of Act III (B.C.) of 1885, of Baboo Nalinaksha Bose to be their Chairman.

H. J. S. COTTON,
Offg Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Culna Local Board, in the district of Burdwan, under section 25 of Act III (B. C.) of 1885, of Baboo Narendranath Barat to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Cutwa Local Board, in the district of Burdwan, under section 25 of Act III (B. C.) of 1885, of Baboo Brojendranath Sen to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th February 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Chaudhuri Mohamed Omur Uddin Ahmed to be a member of the District Board of Rungpore, *vice* Munshi Samiruddin Ahmed, B.L., deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 26, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Annual assessment.	Upset price.	Boundaries.	Remarks.
				B. K. CH	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahalispara in Bartoil.	Mohamedshahye.	31 7 14	12 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Banesh Chandra Sarkar of Belgachi and dwelling-house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi ...	Aujongachi ...	Taragooniah	304 1 10	93 0 0	3,936 11 0	West of the dwelling-houses of Chuni Sheikh and Nabin Mandal Ghose and others, ryots of the zemindars of Chitna; north of the nij-jote lands of the aforesaid zemindars; east of the confines of Khairpur; south of the nij-jote lands of the aforesaid zemindars.	Mourashi jote of Banesh Chandra Sarkar of Belgachi.
3	Dak Adda ...	Kulberia ...	Plassey ...	1 4 8	2 1 6	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Panchanan Rai; west of jote lands of Bani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. Bose, for Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B C) of 1868, and Act II (B C.) of 1871, that the undermentioned dependent tenures in the Town Khas Mehal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 3rd day of March 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Khas Tehsil Office, Town Circle.

Serial No.	No. of tenures in register No. I.	Names of tenures and their situation.	Annual Rental.		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cess.	Rent.	Cess.	Total.	
		Thana town mouzah Bakalya, mehal Noabad.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	887	20134/559 Taluq Manindra Chandra Ghose and others.	3,373 6 0	226 9 0	843 0 0	56 11 0	899 11 0	
		Mouzah ditto, thana ditto.						
2	893A	20134/559(ক) Taluq Khetra Moni Dasi and others.	1,135 11 9	44 6 0	234 0 0	11 1 0	295 1 0	The entire taluqs will be sold.
		Thana Fatikchhir, mouzah Jouskhola, mehal Noabad.						
3	4518	23678/568 Taluq Obedar Rahaman Khan	2,344 0	103 9 0	693 0 0	5 5 9	698 5 9	

Chittagong, the 14th January 1890. C. H. ALLEN, for Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Bajitpur.	2,124 4 7	..	Share No.1, 3as. 3g. 2a 16t.	Shital Nath Bhanga and others	420 2 8	.....	28 8 0
127-1	Kismut pergunnah Bhaluka	14,943 15 8	. ....	Share No. 1, 4g. 13-6-8-1	Grijanath Ray Chowdhury and others	124 13 5		31 10 5
159-4	Kismut Ramdanga, pergunnah Barpanjpur.	649 13 8	.	Share No. 4, 2as. ...	Haran Chandra Majumdar and others.	68 11 8	... .	15 5 2
170-2	Kismut pergunnah Silimated	5,784 6 0	...	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 9½		210 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banamch Mahadev Mukhopadhya.	10,768 0 1½	.....	Residue share' . Hisya 2a. 13g. 1kr. 1kt.	Hara Sundari Chaudhurani and others.	8,973 5 4½	... ..	3,624 7 4½
					Monindra Nath Mukhopadhya and others.	1,794 10 9	... ..	738 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hydorabad Khachak Pitrush market.	688 5 4½	Entire estate.	. ..	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	69 12 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen Chakla Nurpur Hurannessa.	703 9 11½	.....	Residue share	Husni Khanam and others	261 13 6½		78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	..	Hisya 2g 8kr. 3dt.	Durga Sunker Sen ...	5 7 9	.....	2 8 1
272	Pergunnah Shahebabad May Peshkosh Dewani, Banamch Mirza Hyderali.	533 5 4	..	Residue share ... Hisya 1a. 11½g. ...	Rajendra Narain Bandapadhya.	133 5 1	.....	83 7 1
					Ditto ditto .	52 1 4	... ..	32 9 9
325	Tuppeh Mohesswardi, Banamch Saha Newaj Khan, Rishi Newaj Khan.	14,133 5 4½	.. ...	Hisya 15g. 1kr. 1kt. 6f. Ananda Mohon, Hari Mohon and Krishna Mohon Das	Ananda Mohon Das and others.	677 2 6	.....	193 3 9
392	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Radha Madhav.	1,452 9 1	.	Residue share ..	Nanda Kumar Guha ..	425 6 1½	.....	150 11 6
393	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Raj Kishore Sen.	1,452 9 1	.....	Ditto ...	Rup Lal Raghu Nath Das and others.	554 10 2½	... ..	145 8 7
534	Pergunnah Bhawal Jawar Nalnakot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	544 0 0	.	Ditto .	Joy Chandra Chaudhury and others.	74 15 9½	....	43 12 2½
				Hisya 1a Banga Chandra, Har Chandra Chakraverty	Banga Chandra Chakraverty and others.	34 0 0	..	14 5 0½
				Hisya 9g. 2kr. 1kt. Bramya Mayi Debya	Brahmya Mayi Debya	16 4 8	..	14 1 1
552	Pergunnah Mobarak Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	384 6 9½	.. ...	74 13 2
562	Shahar Chandina May Peshkosh Chandina, Maulvi Abdul Ali.	1,898 10 8	.....	Ditto .	Protap Chandra Das and others.	661 8 2	.....	170 4 0
569	Pergunnah Bikrampur, taluq Ram Gunga Bosu.	684 3 0	.....	Ditto	Sitamani and others	256 9 0	..	93 0 0
4319	Pergunnah Patpashar, taluq Golam Hosen Chaudhuri.	930 3 11½	..	Ditto ..	Amiranessa Khatoon, Manager for Maulvi Abdul Hye and others.	359 1 9	.....	86 15 11
				Hisya 1½a. Najbannessa and others.	Najbannessa and others.	37 3 5	.....	8 9 10
				Hisya 3a. 2g. 1kr. 1½kg. Hamidannessa and others.	Hamidannessa Khatoon and others.	181 12 2	.....	55 11 11
5849	Pergunnah Hashara Raja Ram Chandhuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	.....	6 12 0	..
6551	Pergunnah Rajnagar, taluq Debi Prosad Ghosh.	643 2 1½	....	Residue share .	Kala Chand Shaha and others.	545 1 8½	. ...	40 1 5
8434	Char Buktabali	584 0 0	Entire estate.	.....	Pran Nath Pare and others.	.. ..	183 0 0	.. ..
8660	Tuppeh Amirabad, Estate No. 234.	760 4 1½	Ditto	... ..	Abhaya Charan Das and Brojendra Kumar Rai Chaudhuri.	...	72 14 3	.....
9069	Char Fukurhati within Char Krishnapura.	519 0 0	Ditto	. ....	Kripa Mayi Debya and others.	.....	7 2 0	.....
9083	Mouzah Golara Haluchari within Char Jalua Kamta.	752 0 0	Ditto	.....	A. M. Bhoogy Shaheb, Receiver.	.....	149 0 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	.....	Kailash Bashini and Bindhu Bashini Chaudhurani and others.	.....	299 0 0	... .
9762	Pergunnah Burdakhat Char Delwarpur.	4,190 0 0	Ditto ..	.....	Joharuddin Hyder and others.	.....	1,023 0 0	... ..

Dacca Collectorate, the 8th February 1890.

L. HARE, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
		A. R P.	Rs.
98	Kismut Jot Kusturi, pergunnah Kotuali	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs A. P
53	Shahapur, pergunnah Joynugal.	3,490 7 0	.....	2*a*. 13*g*. 1*k*. 1 *krasti*	Choudhuri Mahomed Ichcha and others.	581 11 8	..	4 7 0
75	Turigram, pergunnah Shahajapur.	1,508 0 0	The whole	.....	Shekh Tarikulla ...	.....	0 2 0	.....
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0	.....	8*a*.	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	13 1 6
109	Daurka, pergunnah Ichchapukhuria.	1,803 1 0	.....	13*a*. 17*g*. 2*k*. ...	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy, minor, and others.	1,503 9 2		3 10 1
122	Bajitpur, pergunnah Akbarshahi.	2,906 1 0	.....	9*a*. 8*g*. 1*kag*. 8 *til*.	Nil Madhab Roy and others.	1,700 12 11	.....	14 4 6
936	Palitpur Basantapur, pergunnah Dadshahi.	751 10 0	The whole	.....	Ratan Kumari Bibi and others.	.....	218 8 0	

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Durbhunga will be put up to public and unreserved sale at the Collector's Office of that district on the 15th March 1890, corresponding with 9th Chait 1297 F., on Saturday, at 12 o'clock, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

Serial No.	Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.		Rs. A. P.
1	437	Erazi Gang Barar Hurdaspore, pergunnah Bala Gutch.	547 2 10	.....	Patti ijmali 9 annas 12 gundas.	Mosamat Jasoda Koer, mother and guardian of Adyia Parshad Singh, Baboo Sital Parshad Singh, Shew Gulam Singh, Singhes n Parshad Singh, Nar Singh Parshad, Chitar Narain Singh, Kunj Narain Singh and others.	303 8 8	.....	306 8 4

Durbhunga Collectorate, the 12th February 1890. A. AHMAD, Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Chaitra 1296 (B S), for the kist ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs A. P.	Rs A P.
1	Tuppeh Azimpur, hissa 8a. 19g	2,431 4 4½	.. ...	Joint share, 6a. 10g. 3k. 1½ 10.	Asmat Ali Khan Choudhury and others.	917 7 6½		6 10 10
1416	Taluq Bancha Ram Bosu, hissa 8a., pergunnah Bozergomedpur	1,550 5 3	.....	3a under separate account.	Dinabandhu Sen ..	290 5 10½	.....	45 6 4½
1467	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Durga Narayan Roy, and Mrityunjaya Mukherjee taluq, pergunnah Bozergomedpur	2,295 9 5½	.....	6a 16½g 1½kt. Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½		24 13 1
1548	Taluq Mohammad Hamza, pergunnah Bozergomedpur	1,159 3 8	.....	8a. Ijmali share .	Grish Chandra Mukhapadhyaya and others.	579 9 10		28 4 11
1578	Panioty Alexander taluq pergunnah Bozergomedpur	4,853 12 0½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	604 3 2½	..	115 2 11½
1585	Radha Krishna, Haranand Roy, and Kalidas Siddhanta taluq, pergunnah Bozergomedpur	24,036 10 10	...	5a 1½g 1½k Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	...	43 15 1½
1628	Ramna Bamna Joar Mohammud Safi taluq pergunnah Bozergomedpur	19,487 10 8	.. ..	8a 15½g 10-15-6½-1. Ijmali share.	Golam Asad Choudhuri and others	10,676 12 1		2,119 11 7
1633	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ..	Jagadiswari Debya	257 12 2½	...	51 13 5½
1633	Ditto ditto ..	2,062 2 11½	....	3a. under separate account.	Taramani Debya	386 10 7	. ...	76 6 2
1761	Radha Kanta Sen taluq pergunnah Chandradwip	906 10 8	....	18a Ijmali share	Kali Mohan Mohanta and others.	453 5 4	...	2 13 9½
1764	Pergunnah Dakhin Shahabazpur, 8a. 1½g. 1kt share.	8,543 6 8	Whole estate		Mr Alexander Toms, executor of estate J. P. Wise and others.	..	5,332 10 8½	.. ...
1916	Hawli Selimabad tappeh, hissa 10g	1,045 7 9½	.. ...	5a. 10g Ijmali share	Bama Sundari Gupta and others	359 5 5½	.. ..	72 1 11½
1916	Ditto ditto	1,045 7 9½	..	6a. 15g. share under separate account.	Kailash Chandra Sen Majumdar and others	441 1 8½	..	89 13 0½
3255	Pergunnah Ratandi Kalikapur, hissa 2a.	3,154 11 5	.....	7a 6½g. 2kts. Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,415 14 5	..	403 9 7
3257	Pergunnah Ratandi Kalikapur, hissa 4a.	6,309 6 10	...	10g. Ijmali share ...	Jagadiswari Debya	197 2 6	...	67 5 5
3258	Ditto ditto	6,309 6 10		6½g. 2kts Ijmali share	Ditto	151 7 4	.	43 15 11
4.46	Padma *alias* Ramjanpur, pergunnah Kashimpur Sitapatti.	5,383 0 0	Whole estate.	..	Abinash Chandra Ghosa and others.	.	421 8 8	
4550	Kukua Khag Dom, Domingo Manual, D'Silva, Braja Mohan Sen, Durga Mohan Das, Muammat Krishna Mohini Gaat taluq, pergunnah Bozergomedpur.	9,796 0 0	Ditto	..	Jagadeswari Debya and others.	..	For 1888-89 3,269 4 4, 1889, kist September 153 0 0, 1890, kist January 1,274 0 0	... .
							9,646 4 4	
4767	Madanpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ..	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others		371 1½ 6	...
4897	Tinkhali, pergunnah Chandradwip	533 14 3	... ..	10a. 5g. Ijmali share	Nistarini and others	342 0 4	. ....	32 0 6
4897	Ditto ditto ...	533 14 3	... ..	1a. 15g share under separate account.	Tarini Charan Somoddar	88 6 4	... ..	5 7 6
5008	Chak Barguna, Haola No. 10.	668 0 0	Haoladari right of the whole Haola.	... .	Ramjan Haoladar and others.	..	167 0 0	...
5163	Ramdeb Datta taluq, mouzah Barahipur, pergunnah Gopalpur Mirjanagar	609 0 0	Whole estate.	.. ...	Jearuddin Haoladar and others.	... ..	0 10 0	. ..
5231	Kumaria Chur, hissa 13a 18½g 1kt, pergunnah Uttar Shahabazpur	1,169 0 0	....	3a 8g. 2kt 11½tl Ijmali share.	Durga Proonna Roy and others.	239 5 0	..	178 0 1
5286	Chhota Lumchi Dhali Chur.	1,233 0 0	.....	3a 8½g 1kt. Bodhar. Ijmali share	Mr A. Toms, executor of estate of J. P. Wise and others	262 11 7	.....	107 7 0
6449	Tappeh Sultanabad, hissa 7½g, Asmannessa Khatun and others.	542 1 6	Whole estate.	....	Moulvie Abdul Wasad and others.	....	5 10 6	.

Backergunge Collectorate, the 15th February 1890. POORNO CHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Furreedpore will be put up for sale at the Collector's Office of that district on the 25th March 1890, corresponding to 13th Choitra 1296 (B S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
249	Panchashasari, pergunnah Chandpratap.	744 0 0	Whole	.....	Iswar Chandra Saha and others.	.....	198 0 0	.....
284	Panchashasari, pergunnah Shajpur.	1,531 0 0	Do.	.....	Jadub Chandra Bagchi and others.	.....	300 11 0	...
3555	Taluq Ratneswar Pal Choudhury, pergunnah Nasirat Shahi.	2,559 13 8	.....	Hissa 4 annas ...	Uma Prosonno Pal Choudhury and others.	639 15 0	..	61 11 6
3670	Taluq Ram Prosad Rai, pergunnah Khaisgpur.	534 12 9½	Whole ...	.....	Abhoy Coomer Rai and others.	.....	27 15 8½	.....
4004	Taluq Kali Sanker Sen, pergunnah Rajnagore.	1,140 4 3½	Do. ...	.....	Kumadini Kant Baruiya Choudhuri and others.	.....	128 5 11	.....
4028	Zemindari Basudev Rai, pergunnah Rajnagore.	4,119 4 9½	.....	Hissa 10 annas excepting the specific share bearing a revenue of Rs. 63-1.	Soshi Mohan Pal Choudhuri and others.	2,574 9 9½	.....	810 5 10
4028	Ditto ditto ...	4,119 4 9½	.....	Hissa 6 annas, ditto.	Gopi Mohan Rai Choudhuri and others.	1,481 10 0	.....	185 13 6
6220	Hissa Nilmoni Sen, pergunnah Rajnagore.	597 12 3	Whole ...	.....	Raj Coomer Pal and others.	.....	82 8 7½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa 7½ annas	Raj Coomer Pal and Mohima Chandra Pal.	280 3 1½	.....	74 0 9½
6220	Ditto ditto ...	597 12 3	Whole ...	.....	Haro Lal Pal and others.	.....	5 7 4½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa ½ anna ...	Haro Lal Pal ...	18 11 0	...	4 14 1½
6305	Gashai char, appertaining to char Madan Sankar.	670 12 0	Whole ...	.....	Kripa Moyee Debya, Poorna Chandra Bandopadhya and others.	.....	11 7 3	.....

Furreedpore Collectorate, the 15th February 1890. PURNO CHANDRA RAI, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fasli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
261	Ibraheempoor, pergunnah Brail.	535 0 9	.....	12a. 5g. 12r. 1k. ...	Raisakhi Lall and others.	410 3 9	.....	51 4 0
307	Akhta, pergunnah Babra Chumparun.	1,173 5 9		3a. 12g. 2c. 2k. 12r. ...	Babu Salookat Deo Narayan.	206 8 1	.....	141 8 0½
921	Hazidpoor Dowlat, pergunnah ditto.	4,450 12 8	.....	8a. 1g. 1k. 1d.	Rajcoomar Babu, Deo Nunden Singh and others.	2,240 13 2	.....	113 8 6½
296	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a. 1c. 1d.	Babu Shumbhoo Pershad, Chundika Pershad and others.	1,642 14 5	.....	449 8 11½
1099	Maksoodpoor Kasrish, pergunnah ditto.	1,067 11 9	.....	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others.	483 13 1	... ..	25 1 9½
3494	Bidupoor, pergunnah Hajipoor.	1,707 8 8	The whole estate.	.....	Ramkishun Pandey ..	1,707 8 8	150 12 0	.....
3528	Joorawanpoor, pergunnah ditto.	719 10 7	.....	16g. 2c. 2k. 5r.	Harbuns Singh ..	37 7 8	.....	8 0 8
3528	Ditto	719 10 7	.....	8g. 3c 3r. ...	Deo Narayan Singh ...	19 11 0	.....	3 7 5
3528	Ditto	719 10 7	.....	19g. 3c. 2k. 2d. 15r. ...	Patul Kuer	45 0 0	.....	4 11 11
3528	Ditto	717 10 7	...	2a. 14g. 1k. 5r.	Upnet Narayan ...	121 10 8	.	17 8 6
3639	Maniarpoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,303 5 11	295 1 4	.....
5402	Shariffpoor, pergunnah Nanpoor	506 9 1	.....	5a 6g. 2c. 2k.	Sher Bahadur Singh and others.	337 12 8	.....	20 14 5
9462	Erazee Nowberrar-Bungra, pergunnah Gudah Sand.	865 5 0	..	1a. 6g. 2c. 2k. ...	Mangul Pershad .	73 2 2	... .	9 0 4
9462	Ditto.	865 5 0	... .	2a. 13g. 1c. 1k. 1d. .	Debi Dut Singh ..	144 5 4	. ..	8 0 4
9462	Ditto	865 5 0	.... .	5a 6g. 2c 1k. 2d .	Kashh Pal Singh .	288 7 0	.. ..	0 1 4
9462	Ditto	865 5 0	.....	6a. 13g. 1c. 1k.	Brajnam Deo Narayan Singh.	360 6 6	... .	30 0 6
9894	Raja Pakurchakia, Gurjowl, pergunnah Bisarah.	968 2 8	The whole estate.	... .	Nawnidh Lall and others.	968 2 8	63 0 0	.....

Mozufferpore Collectorate, the 15th February 1890. E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Hooghly will be put up to public and unreserved sale at the Collector's office of that district on the 24th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
3	Mukoondopore, pergunnah Chowmaha.	14,550 2 9	The whole estate.	.....	Rajindra Narain Nundy and others.	..	450 9 11	..
10	Radhakantobati, pergunnah Pandooa.	624 11 11	...	The entire estate except the share of which separate account has been opened.	Brechurry Nundy and others.	596 13 11	...	58 6 0
11	Chhalalpore, pergunnah Pandooa.	707 6 2	...	Ditto ditto	Aisa Khaton *alias* Abadonnessa Bibee and others.	235 13 2	...	25 14 7
26	Malikapore, pergunnah Baligari	10,895 3 8	...	Ditto ditto	Nil Komul Mitter and others.	4,507 14 8	...	1,581 7 4
49	Hatuala, pergunnah Chowmaha.	11,569 5 0	...	Ditto ditto	Raja Peary Mohun Mookerjee and others.	7,712 14 0	...	1,009 10 0
54	Thaipara pergunnah Pandooa.	1,066 1 0	...	7*a.* 19*g* 1*k.* 8*ti* 6½ *kag.* share of seventeen mouzahs, "Thaipara and others" of which separate account has been opened and marked A.	Woomadotonnessa Bibee.	476 0 0	...	5 0 0
56	Champahati, pergunnah Pandooa.	805 7 2	...	The entire estate except the share of which separate account has been opened.	Bidhoomoni Dassee and others.	595 8 6½	...	170 0 0
65	Nundingram, pergunnah Pandooa.	1,975 9 0	...	8 Annas share of the estate of which separate account has been opened and marked A.	Kesub Chandra Chatterjee.	987 13 0	...	30 0 0
117	Rajhat, pergunnah Khosalpore.	726 0 3		The entire estate except the share of which separate account has been opened	Jeebunkristo Gossain and others.	365 11 3	..	35 11 3
159	Chatra Baday, pergunnah Boro.	740 9 5	...	Ditto ditto	Bhola Nath Mitter and others.	43 15 1	...	0 1 10
159	Ditto ditto	740 9 5	...	2*a.* 13*g.* share of the estate of which separate account has been opened and marked A.	Chandra Kanto Mookerjee and others.	145 9 4	...	4 10 0
191	Haripore, pergunnah Chowmaha.	851 3 2	...	The entire estate except the share of which separate account has been opened.	Suthdoyal Banerjee and others.	728 3 2	...	87 4 10
2074	Joerut Chur, pergunnah Hatkanda.	532 5 6	The whole estate.	.....	Joy Kristo Mookerjee	...	266 0 0	...
3321	Digra, pergunnah Boro.	530 3 5	The whole estate.	.....	Ramdoyal Banerjee ...		198 0 0	..
3541	Khar Sarai, pergunnah Boro.	1,311 10 0	...	The entire estate except the share of which separate account has been opened.	Ramdoyal Banerjee ...	655 13 6	...	163 8 0
3994	Ramkristopore, pergunnah Boro.	563 14 9	...	8 Annas share of the estate of which separate account has been opened and marked A.	Ranee Surnomoyee Dassee.	281 15 0	...	103 0 0
4085	Sheikpore, pergunnah Bara.	10,443 11 0	...	The entire estate except the share of which separate account has been opened	Girish Chundra Roy and others.	1,740 3 0		649 7 3

Hooghly Collectorate, the 14th February 1890. MAHOMED ISRAIL, for Collector of Hooghly.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Satkania Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad

Serial No.	Nos. of tenures on Register No. 1.	Names of tenures and their situations.	ANNUAL RENTAL		THE AMOUNT OF ARREARS FOR WHICH THE TENURES TO BE SOLD.			REMARKS.
			Rent.	Cesses.	Rent.	Cesses.	Total.	
	6	*Thanna Satkania, mouzah Napora.*	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	1823	Taluk Raj Kumar Roy and Brojeshwari, haboot taluk Bisheshwari Nuba Kumar, No 541–468.	1,017 2 0	44 8 6	310 0 0	13 7 0	323 7 0	The entire taluks will be sold.
	20	*Thanna Satkania, mouzah Chambal.*						
2	430	Taluk Tajanmissa Chowdhuranee ..	1,193 4 10	176 13 6	745 4 10	110 6 6	855 11 4	

C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
425	Payerpore, pergunnah Futtehjungpore.	Rs. A. P. 3,414 9 6	.....	5a. 10g. 2k. 17½il share bearing No. 425-0.	Kala Chand Biswas and others	Rs. A. P. 1,175 6 11	Rs. A. P.	Rs. A. P. 1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole estate.	.....	Messrs. Robert Watson and Co. and others.	.....	7,681 6 0	.....
815	Ditto ditto ...	1,160 5 0	Ditto ..	.. ...	Sreekrishna Bhowmik and others.	.....	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, and under Act VII (B.C.) of 1868, that the undermentioned estates or shares of estates in the district of Mymensingh will be put up for sale at the Collector's Office of that district on the 25th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
9	Zemindari pergunnah Attiah, hissa 2½ annas.	Rs. A. P. 6,729 2 0	.. ...	Ejmali share exclusive of the separate accounts opened under sections 10 and 11 of Act 11 of 1859.	Nazamon Nessa Khanum Chowdhurain and others.	Rs. A. P. 2,418 6 0	Rs. A. P.	Rs. A. P. 36 6 6
70	Zemindari pergunnah Juanshaye.	10,535 14 0	.....	Separate share 2 annas 5 gds. 2 cr. 6 dips.	L. M. Pogose, L. G. Mary Pogose and others.	1,503 12 0	.....	372 15 5
96	Zemindari hissa 4½ annas with bejabeta taluq, pergunnah Nasirujial.	7,197 10 0	.. .	Separate share 11 gds. 2cr. 2 kg. 10 til. of Kismut Singdha.	Sheik Hazari and others.	1 10 0	.....	1 4 0
96	Ditto ditto ...	7,197 10 0	.....	1das. of taluq Dip Chandra Rai.	Mohim Chandra Roy Chowdhuri	204 5 0	.... .	70 0 0
96	Ditto ditto ...	7,197 10 0	.....	12½gds. share of the estate.	Muhamed Mafidar Rohoman.	230 12 0	... .	79 13 0
121	Thaneswar Badia, pergunnah Nasirujial.	729 10 0	.....	14ans. 10gds. 2cr, 2kg. ejmali share.	Afsanllah Bhuya and others.	711 2 0	.....	275 4 0
124	Payandabeg, hissa 13 as. 6 gds. 2 cr. 3 kranta tuppeh Hasradi.	1,796 2 0	.....	7as. share of Kismat Patua Bhanua, 6as. share of Nagor Hazradi, 2as. of Bir Mauza, 8 gds. of chakley Maha atpur and 16as. of other mouzas.	Upendra Kishore Roy Chowdury and others.	368 15 0	... ..	24 9 0
137	Zemindari pergunnah Susung.	1,988 4 0	.....	15gds. 1cr. 2kranta and 16til share of the estate.	Joy Nath Roy ..	98 1 0	.....	33 5 0
	Ditto ditto ...	1,988 4 0	.....	8gds. 1cr. 2kranta 1 til share of the estate.	Biswesvari Debia and others.	58 5 0	.....	29 1 0
144	Zemindari pergunnah Sherepur, hissa 1a. 5g.	2,643 8 0	.....	Joint share exclusive of separate account opened under Act XI of 1859.	Dharani Kanta Chowdhuri and others.	1,614 1 0	... .	3 14 6
144	Ditto ditto ...	2,643 8 0	.....	2a. 14g. 3cr. 3 dips separate share of the estate.	Har Kumar Chowdhuri.	453 3 0	. ...	143 9 0
5600	Char Ghugra Kandi, pergunnah Sherepur.	765 15 0	Whole ..	.....	Radha Ballav Chowdhuri and others.	.....	2 0 0	.....
6179	Juar Jagat Char, pergunnah Bardakhat, tuppeh Kurikhayl.	754 8 0	.....	1 anna separate share of the estate.	Ram Keshab Shaha and others.	47 3 0	.....	23 5 0
7868	Taluq Nuruneesa Khanum with ejmali mouzah Taratia Digar, tuppeh Ranbhawal.	1,208 0 0	Whole ...	.....	Administrator General of Bengal and others.	.....	140 9 8	.....
				Second class.				
3613	Chak Shakchura, Tuppeh Ranbhawal.	511 0 0	.....	15ans. 17x. share of the estate.	Goloke Chandra Bhattacharjya.	506 4 0	.....	136 6 0
3808	Char Jungldi and others, pergunnah Sherepur.	1,290 0 0	Whole ...	.....	Kishori Mohan Chowdhuri and others.	... ...	104 13 9	.....

Mymensingh Collectorate, the 14th February 1890. JUGGOBONDHU KHAN, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
26	Kismat 1*a.* 6*g* 2*c.* 1*k.* 4*d*t., pergunnah Bardakhat.	Rs. A. P. 13,319 4 9	.....	3*a.* 1*kahara* share	Srimati Barni Khanam and and others.	Rs. A. P. K. 2,508 0 8 2½	Rs. A. P.	Rs. A. P. K. 1,157 1 7 5 due up to Agrahayan 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859.
26	Ditto ...	13,319 4 9	...	14*g.* 1*kara* 6 *kr.* share.	Nabin Chandra Das Roy and others.	599 9 2 14½	...	64 9 5 2 ditto.	Remaining portion that has not been separated.
36	Kismat 3*a.*, pergunnah Choudhagano.	1,360 0 6	....	4*a* share	Amirka Charan Lashker and others.	340 0 0 17½	.....	46 2 0 12½ ditto.	Ditto ditto.
296	Taluk Ramdhan Majumder, pergunnah Mohabutpur.	1,189 13 10	.....	10*a.* 13*g.* 1*kara* 1*kt.* share.	Alam Rajah *alias* Idhangasi Chowdry and others.	793 3 11 0	.....	93 9 11 0 ditto.	Ditto ditto.
295	Taluk Shahazadi Khanam, pergunnah Narayanpur.	746 10 8	.....	3*a.* 11*g.* 1*kara* 2*d*t. share.	Srimati Shafaranessa Bibi and others.	165 14 9 9½	.....	0 3 0 0 ditto.	Ditto ditto.
372	Mouzah Ahamudpur, pergunnah Bardakhat.	1,228 6 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ishan Chandra Roy.	409 7 4 0	.....	139 5 4 0 for kist November 1889.	Ditto ditto.
401	Jowar Bistarah, pergunnah Bardakhat.	3,141 3 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ditto	1,047 1 0 0	.....	356 5 8 0 ditto.	Ditto ditto.
464	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,560 0 0	Whole	.	Golam Moula	...	110 0 0 for kist November 1889.	.....	.....
1965	Chur Nagarerkandi, No. 211, pergunnah Utter Shahapur, resumed under Regulation 2 of 1819	1,296 10 9	Do.	..	Dr. George Manock and others.	.....	296 3 11 ditto.	.....	Property of individuals settled for 11 years from 1294 to 1304 B.S
1963	Mouzah Gangercost, pergunnah Bardakhat.	895 0 0	Do	.....	Braja Nath Roychowdry and others.	.....	76 14 5 ditto.	.....	Meadi taluk settled for 17 years from 1288 to 1304 B.S.
1963	Jowar Tinchitta, pergunnah Bardakhat.	603 13 3	Do.	.....	Durga Charan Das Majumder and others.	.....	210 5 3 ditto.		Meadi taluk settled for 18 years from 1287 to 1304 B.S.
1963	Mouzah Dalarah Charpara, pergunnah Bardakhat.	1,451 1 3	Do.		Kali Das Bhadra and others.	.	277 13 0 ditto.	... ..	Meadi taluk settled for 14 years from 1291 to 1304 B.S.
1939	Jowar Rasulabad, pergunnah Bardakhat.	3,969 14 11	Do.	.....	Kamalakanta Padder and others.	.....	1,364 10 6 ditto.	.....	Meadi taluk settled for 13 years from 1292 to 1304 B.S.
1963	Jowar Daulatpur, tappah Kurikhal, pergunnah Bardakhat.	1,436 12 0	Do.	.. ..	Former owner—Ram Gopal Chakraborty and others. Auction purchaser—Mohesh Chandra Chakravarti. Sale not yet confirmed.	..	493 14 0 ditto.	.	Meadi taluk settled for 50 years from 1261 to 1310 B.S.

Tipperah Collectorate, the 15th February 1890. R. T. GREER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates in the district of Moorshedabad will be put up for sale at the Collector's office of that district on 21st March 1890, corresponding with 9th Choitro, Friday, 1296 (B.S.), for arrears of revenue due up to 13th January 1890.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS
9	Kismut pergunnah Kasipore, pergunnah Kasipore.	Rs. A. P. 8,074 3 0	.. ..	1*a.* 8*g.* 9*krs.* ...	Srinath Roy Chowdhury, &c.	Rs. A. P. 720 7 0	Rs. A. P.	Rs. A. P. 83 0 4	Of the entire estate, 1*a.* 8*g* 9*krs.* share belonging to Srinath Roy Chowdhury, &c., the sudder jumma of which is Rs. 720-7, will be sold.
208	Kismut Huda Barnagar, pergunnah Muraripore.	4,063 13 1 Police 73 2 4		8*a.* 19*g.* 2*karas*	Moharanee Brojo Sundari Debya	2,277 10 11 Police 40 8 0	.	963 8 10 Police 10 14 0	Of the entire estate, joint property (ijmali) of 8*a.* 19*g.* 2*karas* belonging to Brojo Sundari Debya, the sudder jumma of which is Rs. 2,318-2-11 will be sold.
		4,134 15 5				2,318 2 11		974 6 10	
467	Kismut mouzah Syud Kulutia, pergunnah Fatehsinah	870 11 1	Entire mehal	...	Syud Fazlel Karim, &c.		15 14 5	...	
557	Kismut Gunj Jangipore, pergunnah Gonkur	714 8 11	Ditto	... ..	Bepin Behari Nath	.... .	179 14 10	.....	
1486	North of kismut Jangipore char Enayenagar, Bulukhata and Khiderpore.	528 2 0	Ditto	...	Proprietress and settlement-maker, Rukshmini Barmanya.	.....	Current 396 0 0 Arrear 1,436 9 6 1,832 9 6		The proprietary and settlement right of the estate from 1st April 1887 up to 31st March 1894 will be sold.

Moorshedabad Collectorate, dated Berhampore, the 18th February 1890. J. G. RITCHIE, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Midnapur will be put up to public and unreserved sale at the Collector's Office of that district on 25th March 1890, Tuesday, corresponding with Bengali 1296, 13th Chaitro, a d Amli 1297, 14th Chaitro, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Lowji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
41	Pergunnah Khandar, mehal Amra *alias* Bonai (thana Sabung and Midnapur).	1,265 13 2	Entire ..	... ..	Gopinath Masanto, Nando Lall Masanto and others.	.....	21 15 8	.....
45	Pergunnah Khandar, mehal Amon pur (thana Midnapur and Naraingur).	1,356 2 10	.....	9*a*. 12*g*. 8 are of the joint property.	Baboo Kedarnath Bandopadhya, head assistant, on behalf of the minor of Turka estate, Radha Gobindo Pal, and the Collector of Midnapur on behalf of Haripado Masanto under the Court of Wards.	813 11 4	.....	46 13 10 (Minor has share in the estate.)
73	Pergunnah Kelle: Moinachor, mehal Anondopur (thana Sabung).	5,857 4 9	.....	Separate account— *A. g. k.* Anondopur... 6 5 0 Duboraipur 6 5 0 Madhubchuk 6 5 0 Kolagechoa... 5 2 2 Masomchuk 3 2 2 Shamsundurpur ... 3 2 2	Srimotya Dassi, Moni Dasi, mother and guardian of Sripoti Charan De, minor.	1,795 8 8	.....	613 9 5
80	Pergunnah Moyna, mehal Ankhuachuk Dakhin *alias* Dakhin Ankhua (thana Sabung).	873 13 6	Entire ...	.....	Khem Chandra Bandopadhya, self and Srimotya Nistarini Debya, mother and guardian of Panchanan and Lalit Mohon Bandopadhya, minors	.....	301 15 6	.....
124	Pergunnah Kelle: Midnapur, mehal Badar, thana Kospur.	906 6 1	Do. ...	.....	Brojo Das Datta	.....	310 3 9	.....
143	Pergunnah Sabung, mehal Bohbulpur (thana Sabung, Panskura).	2,696 3 1	.....	Separate account, 3*a*. 2*g*. 2*k*. share of the mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripati Charan De, minor.	526 15 11	.....	181 6 11
204	Pergunnah Khandar, mehal Barikbar *alias* Bargones (thana Sabung, Midnapur and Naraingur).	3,496 0 3	.....	Joint property— *A. g. k.* Damudarbar Kelle: ... 4 0 0 Barikbar ... 4 0 0 Beaudpur ... 4 0 0 Chowdhrychuk ... 4 0 0 Holodhorchuk 4 0 0 Mohonnondichuk ... 4 0 0 Babon Doluichuk ... 4 0 0 Ram Chandra chuk ... 4 0 0 Anondodoluichuk ... 4 0 0 Jibunchuk ... 4 0 0 Abhiram Bar 4 0 0 Ochubar . 4 0 0 Damudarchuk 4 0 0 Arjunchuk ... 4 0 0 Kotai .. ... 4 0 0 Bishtuchuk 4 0 0 Joosagerea... 4 0 0 Srimontopur 4 0 0 Mawa: Kelle: 4 0 0 Daoa ... 4 0 0 Ewazchuk ... 4 0 0 Mednichukbar 4 0 0 Raghudoluichuk ... 4 0 0 Khordabad chuk ... 4 0 0 Chuk Basdeb 4 0 0 Jeaserea ... 4 0 0 Krorda ... 4 0 0 Biswanath chuk ... 4 0 0 Dordra . 2 6 1 Dordra chuk Kelle: ... 2 6 1 Lal chuk ... 2 6 1 Salukea ... 2 6 1 Gopal Sing chuk ... 2 6 1	Srimotya Prossono Moyi, Dinabundu Pardi and others.	780 15 6	.....	94 12 9
231	Pergunnah Batitaki, mehal Bural (thana town, Sabung, Naraingur).	1,213 7 5	.....	8*a*. of the joint mehal 8*a*. of the separate account mehal.	Jibun Kristo Ghose ... Administrator-General, Calcutta of the estate of Srikristo Ghose.	606 11 8 606 11 9	.....	199 7 7 199 8 1
271	Pergunnah Kelle: Moyna, mehal Borisa *alias* Borisa Ramchuk, (thana Sabung).	2,077 9 5	Entire ..	.....	Ramhari Mondul and Sodanand Mondul and others.	... .	834 13 5	.....
328	Pergunnah Egrachor, mehal Bhatda, thana Egra.	3,614 13 4	.....	Joint property— Mouza Tetulea 1, Ke: Naroranga, 2*a*. 7*g*. 3*k*.	Nundo Kumar, Satrughon Acharyya and others.	1,170 13 7	.....	4 11 6

18*k*.; Bhatda, 8*a*, 9*g*. 2*k*.; Mirzapur 1; Karokpara 1; Noripur 8*a*; Jhurea 1 mouza; Gopinathpur 1 mouza; Sundurpur 1 mouza, Ke: Kamardeyan 3*a*. 12*g*.; Norohoripur 1 mouza.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
364	Pergunnah Kelle: Moynachor, mehal Chonura Chuk, thana Sabung.	Rs. A. P. 546 15 8	Entire...	.....	Dinabundhu Jana, Kartik Prosad Jana and others.	Rs. A. P.	Rs. A. P. 0 2 4	Rs. A. P. .....
366	Pergunnah Kasijora, mehal Dahnapukur, thana Panskura.	618 13 3 with police.	Do.	.....	Nemaichand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	.....	129 0 3 with police.	.....
367	Pergunnah Shahapur, mehal Dingel, thana Debra.	2,906 3 1	.....	8a. share of the joint mehal.	Jibun Kristo Ghose	1,453 1 7	.....	484 3 1
				No. 1. 8a. of the separate account.	Administrator-General, Calcutta, estate Srikristo Ghose.	1,453 1 6	.....	484 2 8
391	Pergunnah Kedar Kund, mehal Duyan (thana Debra).	1,135 8 3	Entire ..	.....	Sridhorcharan Nundi ...	.....	390 8 3	.....
504	Pergunnah Kelle, Kasijora, mehal Gopalnagur, (thana Panskura).	1,511 0 9	.....	10a. 13g. 1k. 1kr. of the joint mehal.	Doyal Chondra Jana, Bisambur Jana and others.	1,007 5 10	.....	85 14 0
562	Pergunnah Gaganapur, mehal Ghosepur, thana Panskura.	1,206 1 8	.....	8a, share of the entire joint estate.	Joint share Jibun Kristo Ghose.	604 0 10	.....	197 1 10
				No. 1, separate account 8a. share.	Administrator-General, Calcutta, estate Srikrishna Ghose.	604 0 10	.....	197 1 10
600	Pergunnah Sabung, mehal Horihurpur, thana Sabung.	2,427 11 0	.....	9a. 15g. share of the entire joint mehal.	Nemaichand Dey ...	1,479 5 11	.....	507 14 1
				No. 1, separate account, 6a 5g. share of the entire mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	948 5 1	.....	325 4 1
627	Pergunnah Chetna, mehal Horirampur, thana Daspur.	25,920 3 9 with police.	.....	8a. share of the mehal.	Joint share Nobolal Khan, Koralipodo Khan and others.	12,960 1 11 with police.	.....	4,895 7 1 with police.
639	Pergunnah Moynachor, mehal Ankhapurbo (thana Tamluk).	1,901 7 8	.....	8a, share of the joint mehal.	Dina Nath Bhuttacharjya	500 11 7	.....	173 1 4
648	Pergunnah Amarsi, mehal Jadubar *alias* Narabasan, thana Pataspur.	907 13 3	.....	9a. 11g. 3k. 2kag share of the entire joint mehal.	Premchand, Ishan Chandra Sera and others.	541 4 5	.....	16 6 9
651	Pergunnah Kelle: Kasijora, mehal Janabar, thana Panskura.	1,282 9	Entire		Kamda Charan Pal, Aiman Nessa Bibi and others.	.....	1 1 3	.....
695	Pergunnah Taruf Jamna, mehal Jamna, thana Sabung.	1,598 14 3	.....	6a. 1g. 3k. 2 kag share of the entire mehal.	Joint share Nemai Charan Dey.	607 14 4	.....	211 2 4
740	Pergunnah Sabung, mehal Khelnachota, thana Sabung.	715 5 10	Entire ..	.....	Nemai Chand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	... .	149 7 10	.....
804	Pergunnah Kasijora, mehal Kolagechya (thana Panskura Tamluk).	1,149 8 7	....	Joint property 12a. share of mouza Kellagechya.	Chandhori Nando ...	780 2 10	.....	268 14 10
840	Pergunnah Kelle: Kasijora, mehal Kesapat, thana Panskura.	800 6 2	Entire...	.....	Brojo Das Dutta	.....	275 5 5	.....
841	Pergunnah Moynachor, mehal Kripanandopur, thana Sabung.	673 5 7	Do.	.....	Natabur Das Adhikary, Godadhur Das Adhikary and others.	.....	230 15 11	.....
889	Pergunnah Moynachor, mehal Kherai, thana Sabung.	5,981 4 5	... ..	14a. 8g. 5k. share of the joint mehal.	Dinabundhu Nandi, Nemai Chand De and others.	5,370 1 5	.....	1,076 11 11
				No. 1, separate account, 1a. 11g. 1k. share of the entire mehal.	Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	581 2 10	.....	199 4 10
1064	Pergunnah Kasijora, mehal Nohna Kuwar Chuk, thana Panskura.	1,178 13 0 with police.	Entire ..	. ....	Nemai Chand Dey and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.. ...	402 9 0	.....
1046	Pergunnah Sabung, mehal Nandobar, thana Sabung.	667 9 11	Do. ...	.....	Rajiblochon, Madhusudhon Sabud and others.	... .	1 8 11	. ..
1118	Pergunnah Shahapur, mehal Poponhori Choron *alias* Papon (thana Debra).	571 1 6 with police.	Do. ...	....	Sridhor Charan Nandi	....	195 15 5 with police	.....
1870	Pergunnah Kelle: Kasijora, mehal Ratalea (thana Panskura).	1,135 12 11 with police.	Do. ...	.....	Ditto ditto ...	.....	380 13 11 with police.	.
1880	Pergunnah Moynachor, mehal Ramchondropur, thana Sabung.	1,300 13 9	...	No. 1, separate account, 10a. 13g. 1k. 1kr. share of the mehal.	Brojo Das Dutta	867 3 10	...	298 15 10
1881	Pergunnah Kasijora, mehal Sridhorbosan *alias* Dhuleara, thana Panskura.	1,456 13 6 with police.	.....	Separate account, mouza Sridhorbasan 1, mouza Dhuleara 8a.	Rishi Kesh Bose ..	593 13 8 with police.	.....	250 3 8 with police

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1436	Pergunnah Uttor Behar, mehal Shahrdahat *alias* Shahrda, thana Datoon.	Rs. A. P. 2,171 4 6	.....	8a. 13g. share of the joint mehal.	Gopinath, Nando Lall Masanto and others.	Rs. A. P. 1,173 13 7	Rs. A. P.	Rs. A. P. 29 11 6
1500	Pergunnah Kasijora, mehal Uttorusutpur, thana Panskura and Tamluk.	2,605 3 1	.....	No. 8, separate account, 8a. share of mouza Uttor usutpur.	Nemai Chand Dey and Dasi Moni Dasi, mother and guardian of Sripoti Charan De, minor.	640 0 0	.. ..	184 1 6
	Temporarily-settled estate.							
46	Pergunnah Pataspur, mehal Dehat Gokulpur.	23,683 16 3	Entire...	.....	Gopendro Nondon Das Mohapatro.	...	307 16 8	.. ..
	Jalpai mehal.							
15	Pergunnah Taruf Biswan, mehal Gorahar, thana Khedgree.	814 0 0	Do. ...	.....	Proprietor Government tenant Durga Prosad Mirdha.	.....	279 13 0	..

Dated Midnapur, the 21st February 1890. G. W. PLACE, for Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the undermentioned mehals and tenures borne in the towji of the district of Noakholly will be put up to public and unreserved sale at the Collector's office of that district, on Wednesday, the 26th March 1890, corresponding with 14th Choitra 1296 B S., for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1551	No. 14, Gayer makarari meadi (temporary) howla Abdul Rahaman in chur Shulukya, *alias* Sunya, chur pergunnah Bhoolooah.	Rs. A. P. 503 15 11	Whole ...	....	Wasuddin Maghi ...	Rs. A. P.	Rs. A. P 241 11 6	Rs. A. P. .....
1603	No. 80, Gayer makarari meadi (temporary) howla Asmatullah, Shubal Chandra Guha in chur Magdhara, pergunnah Sundip.	708 14 7	Do. ...	.....	Uma Charan Guha	...	26 0 0	...
1671	No. 1, Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, Gayer makarari meadi (temporary) abadkari howla Anwaruddin, Kali Das, Modan Nath in chur Gazi, pergunnah Jazira.	1,649 5 9	Do. ...	.....	Ismail Maghi ..	. ..	670 4 6	.....
1671	Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, No. 3, Gayer makarari meadi howla Mohammed Manwar, Mohammed Kalim, Akramaddin, in chur Gazi, pergunnah Jazira.	1,283 9 0	Do.	..	Srimati Halimennesa Chowdhurany.	.....	519 10 6	.....
1671	No. 45, Gayer makarari meadi howla Sarfaddin, Kalimaddin, Sua Gazi, Kachim No. 279 Dakhal in chur Gazi, pergunnah Jazira.	555 9 7	Do.	.....	Asimaddin Patwari, Amirzan Bibi, mother and guardian of Aminullah and Mofzil, minors, Chuny, Moti Miah, Kachim	....	102 2 1	.. ..
					Karimunnessa, Munsarali, Samadali, Tazumaddin, Umedali, Manoo Meah, Abdul Meah, Fazarally, Halimennessa, Kadirbaksh, Sabakah Ahmad, Asabaddy Monharali.			

Noakhally Collectorate, the 16th February 1890. C. R MARRIOTT, Offg Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned mehal, borne in the towji of the district of Noakholly, will be put up to public and unreserved sale at the Collector's Office of that district on Wednesday, the 26th March 1890, corresponding with 14th Chaitra 1296 B S., for arrears of revenue recoverable under the law in force due for kist 28th September 1889:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate is to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
45	Kishmut Mohendra Narayan, pergunnah Sundeep.	Rs. A. P. 637 1 11	Whole ..	.	Chandra Mohan Nandy.	Rs. A. P.	Rs. A. P. 109 7 8	Rs. A P. ....

Noakholly Collectorate, the 16th February 1890. M. M. CHUCKERBUTTY, Dy Collr., for Offg Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Sarun will be put up for sale at the Collector's Office of that district on the 17th March 1890, corresponding with 11th Cheyt 1297F. (Monday), for arrears of revenue and other demands due on 28th September 1889, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
78	Deopur, pergunnah Ander.	3,309 12 10½	.....	*Ijmali.*—16*a.* in mouzah Izara; 4*a.* in Patar; 4*a.* in Pachhemia; 16*a.* in Deopur; 4*a.* in Seari.	Rampria Saru ...	1,048 7 3½	... .	338 0 6½
242	Siswa, pergunnah Ander.	831 5 4½	.....	*Ijmali.*—16*a.* in mouzah Hoosaina; 16*a.* in mouzah Siswa; 16*a.* in mouzah Kandh Paker; 16*a.* in mouzah Bowandih; 16*a.* in mouzah Kesila; 4*a.* in mouzah Meerpur Jitwar; 16*a.* in mouzah Uperwar; 16*a.* in mouzah Moglaripur; 16*a.* in mouzah Harnathpur; 4*a.* in mouzah Chandouli Pati.	Sheikh Goolam Hoosein and others.	623 14 10½	.....	25 2 11½
334	Umdha Phakooli, pergunnah Bal.	1,040 0 0	.....	*Ijmali.*—7*a.* in mouzah Umdha; 7*a.* in mouzah Phakooli.	Ram Govind Sahoo and others.	975 0 0	....	182 11 5
386	Bolesra, pergunnah Bal.	811 2 10½	.....	*Ijmali.*—14*a.* 8*p.* 5*k.* 4*m.* 2*d.* 19*kag.* in mouzah Belesra.	Kerat Chand Mohto.	744 11 10½	.....	4 0 9½
687	Khaira Kuchnar, pergunnah Bal.	5,048 12 9½	Whole estate.	.....	Gunga Parshad Singh and others.	.....	0 2 3	.....
729	Mirzapur, pergunnah Bal.	1,546 10 8½	.....	*Ijmali.*—16*a.* in mouzah Mirzapur; 16*a.* in mouzah Narown Narainpur Mirapur Gopalpur; 16*a.* in mouzah Bunwari Basunt; 16*a.* in mouzah Ramgadha; 16*a.* in mouzah Bakunthpur; 16*a.* in mouzah Gungajul.	Dil Raj Singh and Barmha Singh and others.	1,138 1 8½	.....	0 1 5½
830	Rusulpur, pergunnah Bal.	1,396 0 0	.....	*Ijmali.*—16*a.* in mouzah Belkunda; 8*a.* 6*p.* in Bahunpur; 1*a.* in Parsa; 16*a.* in Chandpura; 8*a.* 6*p.* in Chhitrowlia; 16*a.* in Rampur Nurnagar; 8*a.* 6*p.* in Rusulpur; 8*a.* 6*p.* in Saria; 8*a.* 6*p* in Kotma; 1*a.* 6*p.* in Mirzapur; 8*a.* 6*p.* in Manikpur.	Baboo Chandreswur Persad Narian Singh.	606 9 5½	.....	28 8 10½
1781	Shampur, pergunnah Baral.	1,013 3 3	.....	*Ijmali.*—12*a.* in mouzah Semerdeh; 8*a.* in mouzah Shampur; 16*a.* in mouzah Shampur Talah Doem; 8*a.* in mouzah Balapati; 16*a* in mouzah Sultanpur; 8*a.* in mouzah Sheikhpur.	Shunker Parshad and others.	547 7 2	.....	34 10 10
2715	Karar Mahamedpur, pergunnah Goa.	724 15 0	Whole estate.	....	Ram Parshad Sahoo, Gunga Parshad Sahoo and others	.....	330 9 9	.....
2763	Sagoni *alias* Burghi, pergunnah Goa.	1,536 0 0	.. ..	*Ijmali.*—13*a.* 9*p.* in mouzah Sagoni; 12*a.* 9*p.* in mouzah Burghi; 12*a.* 9*p* in mouzah Chandpara; 12*a.* 9*p.* in mouzah Harakhpara; 16*a.* in mouzah Lorna; 13*a.* 9*p.* in mouzah Rajmara Mokimpur; 13*a.* 9*p.* in mouzah Sonepatia.	Ram Namaj Kuer and Ram Sarun Singh, &c.	1,394 7 11½	.....	7 2 7
2872	Sondhani, pergunnah Goa.	6,866 1 11	.....	*Ijmali* share	Durga Singh and Jado Lal.	857 5 5	.....	218 10 0 2 *powa.*
2035	Kharika, pergunnah Kasmir.	612 2 4½	Whole estate.	....	Sugao Ali Khan and Jamao Ali Khan and others	.....	100 11 4½	.....
3175	Salehpur, pergunnah Kasmir.	1,119 0 0	Ditto ..	.....	Ram Parsun Singh, auction purchaser.	.....	201 13 0	.. ..
3176	Ditto	619 0 0	.....	*Ijmali.*—16*a* in mouzah Salehpur Dara-Sikah; 16*a.* in mouzah Chander Chanpur; 16*a.* in mouzah Chak Chhiter Madhooker.	Padaruth Tewari, auction purchaser.	604 0 0	.....	118 4 0
3177	Ditto	650 0 0	.....	*Ijmali.*—16*a.* in mouzah Salehpur Dara-Sikah; 16*a.* in mouzah Chander Chanpur; 16*a.* in mouzah Chak Chhiter Madhooker.	Shoo Karun Singh, auction purchaser.	605 0 0	.....	113 6 11½
3472	Doomria, pergunnah Madhul.	533 5 4	Whole estate.	. . . .	Thakur Parshad Singh and others.	. ....	53 13 6	.....
3543	Indai, pergunnah Manjhi.	633 9 7	.....	*Ijmali.*—13*a.* 16*g.* 1£. in mouzah Indai.	Ram Anagrah Rai and Ram Baran Rai, and others.	546 15 8	.. ...	32 12 0
3689	Lachhipur, pergunnah Narhun.	2,026 10 8	Whole estate.	.....-...	Laloo Singh and Fetch Narain Singh and others.	.....	0 0 4½	.....
3932	Jira-Dih, pergunnah Pachlukh.	624 1 3½	Ditto	....	Mossamut Raghoobunsi Kuer and others.	.....	7 3 1	.....
3938	Hasoonpur Mehna, pergunnah Sipah.	777 15 2½	Ditto .	.....	Baboo Janki Parshad Sahee and Bhairo Parshad Sahee and others	.....	0 2 2½	.....

Sarun Collectorate, the 22nd February 1890.

RAGHU NATH SHAHI, Dy. Collr., for Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Cuttack will be put up for sale at the Collector's Office of that district on the 7th April 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors.	If a share is to be sold, the sudder jumma of such share or shares.	If the whole estate is to be sold, the arrears due from it.	If a share is to be sold, the arrears due from such share or shares.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Kismut talook Kalimegha, pergunnah Jajpoor.	1,198 7 4	.....	Out of the estate kismut, 11*a.* 9*p.* 15*k.* 2*b.* 10*g.* share of Ananta Panda and others.	Ananta Panda, Kanhai Panda and others.	891 2 0	.....	9 0 5
656	Kismut mouzah Nagnapur, pergunnah Suhang.	923 13 7½	.....	Out of the estate kismut, 15*a.* 2*p.* 9*k.* 2*b.* 12*g.* 3*kauri* share of Chaudhari Juggernath Santra Mahapater and others.	Kripa Sindhu Chaudhari and others.	882 11 0	.....	1 5 7½
742	Kismut mouzah Barahipur, pergunnah Sughunda.	531 4 10	Whole estate	.....	Gobind Chandra Paharaj and others.	.....	16 7 7	.....
744	Talook Manda, pergunnah Sughunda.	1,015 14 1	Ditto ...	.....	Juggernath Santra Mohapater and others.	.....	23 6 2	.....
1328	Talook Upper Barnan, pergunnah Barnan.	590 4 0	Ditto ...	.....	Daya Nidhi Dubai and others.	.....	20 7 10	.....
1981	Kismut mouzah Aitpur, pergunnah Kodinda.	655 10 6	.....	Out of the estate kismut 14 annas share of Radha Madhob Santra and others.	Radha Madhob Santra and others.	573 11 2	.....	81 3 3
2034	Kismut talook Rajhungsa, pergunnah Kodinda.	1,695 3 10	Whole estate	.....	Radha Madhob Santra, Hurra Kristo Mohanty and others.	.....	211 14 3	.....
2071	Talook Sree Sanderpur, pergunnah Silo.	980 2 0½	.....	Out of the estate kismut 13 annas share of Kasi Nath Das and Surja Mani Die and others.	Syed Abdul Kadar and others.	796 5 7½	.....	20 7 4½
2496	Talook Bisnabar, pergunnah Bakhrabad.	2,886 1 1½	Whole estate.	.....	Radha Madhob Santra and others.	.....	250 11 8½	.....
2737	Mouzah Kantimal, pergunnah Kata.	505 10 2	Ditto ...	.....	Kanhoo Charan Chaudhary and others.	.....	3 5 4	.....
3595	Kismut mouzah Narigan, pergunnah Katia.	729 14 7	Ditto ...	.....	Janardan Mahapater and others.	.....	1 14 11	.....
3844	Talook Balabhadra, pergunnah Tikan.	1,106 12 4½	Ditto ...	.....	Chaudharanee Madhu Doi, grandmother and guardian of Madan Mohan Das, minor.	.....	191 12 8½	.....

Cuttack Collectorate, the 20th February 1890. A. C. SEN, for Collector.

Notice.

PURSUANT to the orders of Government, dated the 29th June 1881, particulars of the undernoted items of articles held by the Port Commissioners as Receivers of Wrecks, each article being of value above Rs. 100, are published for general information in accordance with the provisions of section 76, Act VII of 1880.

Date.	Recovery number.	Description of articles.	Weight.	Approximate value.	Where recovered.	Where lying.
		Port Approaches.	Cwt. qr. lbs.	Rs.		
16th August 1889 ...	10 P. A.	One country anchor	45 0 0	225	Poojally Creek	Port Commissioners' Works and Anchor yard.
22nd ,, ,, ...	11 ,,	One Rodgers' patent anchor	15 0 0	260	Ditto ...	Ditto.
27th ,, ,, ...	12 ,,	One chain 1⅜" of 30 fathoms	37 2 8			
4th September ,, ...	13 ,,	One Rodgers' patent anchor	50 0 0	150	Shibsaria ...	Ditto.
		One English anchor	27 0 0	215	Budge-Budge	Ditto.
11th ,, ,, ...	14 ,,	One chain 1⅛" of 15 fathoms	16 1 10			
27th November ,, ...	17 ,,	One anchor	60 0 0	300	Binelipatam .	Ditto.
		One English anchor	40 0 0	330	Kulpee ..	Ditto.
3rd December ,, ...	19 ,,	One chain 1⅜" of 15 fathoms	26 3 26			
		One country anchor	23 0 0	240	Do. ...	Ditto.
27th ,, ,, ...	21 ,,	One chain 1⅜" of 33 fathoms	35 3 23			
		One Rodgers' patent anchor	30 0 0	390	Saugor ...	Ditto.
27th ,, ,, ...	22 ,,	One chain 1⅛" of 32 fathoms	48 3 0			
		One country anchor	50 0 0			
		One wooden stock...	.....	1,000	Ditto ...	Ditto.
		One chain 1⅜" of 80 fathoms	162 3 12			
27th ,, ,, ...	23 ,,	One country anchor	38 0 4			
		One chain 1⅜" of 86 fathoms	154 2 25	960	Ditto ..	Ditto.
8th January 1890 ...	26 ,,	One country anchor	18 0 0			
		One chain 1⅛" of 66 fathoms	34 1 24	245	Ditto ...	Ditto.
10th ,, ,, ...	27 ,,	One Rodgers' patent anchor	36 3 8			
		One stock	.. ...	1,585	Ditto ...	Ditto.
		One chain 1⅛" of 135 fathoms	274 3 8			
18th ,, ,, ...	28 ,,	One English anchor	43 1 23			
		One stock	8 2 0	1,530	Ditto ...	Ditto.
		One chain 2⅛" of 135 fathoms	255 3 26			
10th February ,, ...	31 ,,	One country anchor	12 0 0			
		One chain 1⅛" of 62 fathoms	49 0 26	305	Ditto ...	Ditto.
10th ,, ,, ...	32 ,,	One country anchor	13 0 0			
		One chain 1⅛" of 12 fathoms	9 2 8	110	Ditto ...	Ditto.
10th ,, ,, ...	33 ,,	One English anchor	42 0 0			
		One chain 1⅜" of 10 fathoms	17 3 27	290	Ditto ...	Ditto.

Port Commissioners' Office, Calcutta, the 11th February 1890. E. J. BEAUMONT, Asst. Conservator.

Excise.

NOTIFICATION.

1. The right of retail sale of the Liquors and Drugs specified below will be put up to auction at the Opium Sale-room, Board of Revenue, 2, Bankshall Street, on Tuesday, the 4th March 1890, and subsequent days, in the following order :—

Name of article.	Date of sale.
Ganja, Siddhi, Charas, Majum ...	Tuesday, the 4th March 1890.
Opium, Madak, Chandu	Wednesday, the 5th ditto.
Tari	Saturday, the 8th ditto.
Country Spirit, Rum and Imported Liquor by glass.	Monday, Tuesday, and Wednesday, the 10th, 11th and 12th March 1890.

2. A complete list of all the shops for which licenses will be offered and a copy of each form of license are open to general inspection at the Office of the Superintendent of Excise Revenue, 4, Bankshall Street, and the number of these shops is not under any circumstances to be increased during the term of three years ending the 31st March 1893, except under the Board's sanction in each case. The Superintendent of Excise Revenue, however, reserves to himself the right, in case of combination, or for other cause, to transfer (subject to there being no objection on police grounds), either before or after its settlement, any shop from the site specified in the list to some other site, provided that the new site, if it is more than 100 yards from the advertised one, does not bring the shop within a quarter of a mile of any other similar shop whose term of license is unexpired.

3. It is not at present intended to open any other shop during the term of the license; but the Superintendent of Excise Revenue does not absolutely bind himself in this respect. On special cause shown, and with the sanction of the Board of Revenue in each case, the number of shops may be increased: provided, however, that, whenever a new shop is opened, it will be optional to the holder of a similar license for the sale of Liquor or Drugs, if his shop is within a quarter of a mile of the new shop, to surrender his license without forfeiting his advance, when the Superintendent of Excise Revenue is to re-settle the shop by auction or otherwise.

4. The right of retail sale of the Liquors and Drugs is to be put up to auction at the sanctioned upset prices.

5. The right of retail sale of the Liquors and Drugs is to be put up to auction in separate lots of one or more shops, either in the order specified in the list, or in such other order as the officer conducting the sale may deem fit. When one lot has been sold, the next lot is not to be put up until the sum payable in advance on account of the lot already sold has been actually paid: provided, however, that, where the sum payable exceeds Rs. 25, a promissory note may be taken from any respectable and well-known purchaser in lieu of cash payment.

6. The purchasers of the right of retail sale of Country Spirit, Rum, and Imported Liquors are entitled to sell Imported Liquors by the glass only, the liquor to be drunk *on* the premises.

7. The auction is to be held subject to the following conditions :—

(*a*)—That the Superintendent of Excise Revenue does not bind himself to accept the highest or any bid.

(*b*)—That the settlement with each accepted purchaser will, in Calcutta and the Suburbs, be contingent on the production by him of the usual Police certificate or license, as the case may be, viz.—

For Excise licenses for— Doasta ... ... Rum ... ... Imported Liquors by glass ... ... Tari ... ... Ganja ... ... Siddhi ... ... Charas ... ... Majum	If to be held in Calcutta, a Police certificate in the form prescribed by section 36, Act IV (B.C.) of 1866, must be produced; and if to be held in the Suburbs, a Police certificate in the form prescribed by section 19, Act II (B.C.) of 1866, must be produced.
For Excise licenses for— Opium ... ... Madak ... ... Chandu	If to be held in Calcutta, a Police license in the from prescribed by section 39, Act IV (B.C.) of 1866, must be produced; and if to be held in the Suburbs, a Police license in the form prescribed by section 22 of Act II (B.C.) of 1866, must be produced.

(*c*)—That the person accepted as the purchaser is to state in writing, within seven days from the date of settlement, in what building he purposes to open his shop, and is at the same time to submit a plan showing clearly and distinctly what building or portion thereof he desires to be covered by the license, it being understood that the removal of shops to other premises than those named in the list attached to this notification will be contingent on the approval of both the Excise and Police authorities, and that any sum which has been paid as an advance of the license fee under the provisions of clause (*d*) of these conditions will be returned to any person to whom a license may be subsequently refused for Police reasons.

(*d*)—That the term of the license is to be for three years ending the 31st March 1893, and that, except in the case of Tari, the license fee for that period is to be paid in advance in the following instalments:—namely, the sum equivalent to the fee for two months, at the time of sale, and one month's fee on the date on which the currency of the license commences, and one month's fee on the 1st day of every succeeding month, until the whole of the fee due on the license shall have been paid. In the case of Tari only one month's fee

is to be paid in advance at the time of sale, and fifteen days' fee on the date on which the currency of the license commences, and the rest of the fee in half-monthly instalments, viz., on the 1st and 16th day of every month, until the whole of the fee due on the license shall have been paid. This condition is to be strictly enforced in future, and failure to comply with it is to be met by immediate cancelment of the license.

(*e*)—That the purchaser is not to be entitled to receive back any portion of his advance in the event of his shop being closed before the expiration of the term of the license on violation of any of the conditions of the license, or his being convicted of a non-bailable criminal offence, or of any offence against the Excise laws or rules; and in the case of the surrender of a license under Act VII (B.C.) of 1878, the licensee is to give fifteen days' previous notice in writing to the Superintendent of Excise Revenue, and pay a sum equal to the license fee for fifteen days, over and above the amounts already paid in advance; and in the case of the surrender of a license under Act I of 1878, the licensee is to give one month's previous notice in writing to the Superintendent of Excise Revenue, and pay such fine not exceeding six months' license fees as the Superintendent of Excise Revenue may adjudge, over and above the amounts already paid in advance.

(*f*)—That the currency of the license is to commence on the 1st April 1890, on which date the purchaser is to open his shop, in all respects prepared for the accommodation of customers, to be certified by an Excise Officer—failure to comply with this condition is to be met by the immediate cancelment of the license, the forfeiture of the deposit, and the levy of the fees for the month except in the case of delay caused by the non-issue of the Police certificate or Police license, for which a reasonable extension of time may be allowed upon application and cause shown to the Superintendent of Excise Revenue.

(*g*)—That where the amount of the sum payable in advance is required to be paid at once in cash, and the bidder fails to make such payment, the officer conducting the sale is either immediately to put up the lot again for sale, or after the other lots in the list have been disposed of, or he may postpone the sale to such future date as he shall then and there notify; and the defaulting purchaser is to be debarred from bidding for such lot, or for any other lot, and he is not to be allowed to remain in the auction-room; and that the defaulting purchaser will be liable for any loss that may accrue to Government in case it becomes necessary to re-sell a lot at a lower rate, either in consequence of his failure to deposit the sum payable at the time of sale, or to redeem his promissory note on or before 4 P.M. on the day following that on which the note was signed.

(*h*)—That the purchasers are to adhere to all the provisions of the Opium, Excise and Police laws, and of the rules which have been or may from time to time be prescribed by the Board of Revenue.

8. All sales subsequent to the date of the triennial sale in March are to be held subject to the conditions contained in this notification, so far as they may be applicable.

9. Any further information regarding the auction may be had on application at the Office of the Superintendent of Excise Revenue.

D. G. BONNERJEE,
Superintendent of Excise Revenue,
Calcutta, the Suburbs, Howrah, and Bally.

OFFICE OF THE SUPDT. OF EXCISE REVENUE; 4, BANKSHALL STREET, CALCUTTA, *the 14th February* 1890.

Statement of the Affairs of the Bank of Bengal for the week ending 18th February 1890.

LIABILITIES.				ASSETS.			
	Rs.	A.	P.		Rs.	A.	P.
Capital paid up	2,00,00,000	0	0	Government Securities	20,25,957	8	0
Reserve Fund	58,00,000	0	0	Other authorized Investments	71,51,776	0	0
Public Deposits at Head Office Rs. 1,05,12,898 13 1				Loans on Government and other authorized Securities	1,92,98,639	0	9
Ditto ditto at Branches „ 94,66,405 7 2	1,99,78,804	4	3	Accounts of credit on ditto ditto	1,06,58,969	4	9
Other Deposits at Head Office and Branches	3,02,51,538	13	0	Bills discounted and purchased	1,92,88,542	8	6
Bank Post Bills, &c.	4,27,782	6	4	Balances with other Banks	7,66,833	2	11
Sundries	6,50,373	3	5	Bullion	54,029	3	11
				Dead Stock	12,25,904	5	11
				Stamps	14 367	6	0
				Sundries	3,02,438	4	3
					6,07,87,456	13	0
				Cash and Currency Notes at Head Office Rs. 56,06,475 10 5			
				Cash and Currency Notes at Branches „ 1,07,14,566 3 7	1,63,21,041	14	0
Rupees	7,71,08,498	11	0	Rupees	7,71,08,498	11	0

BANK OF BENGAL,
Calcutta, 20th February 1890.

F. T. LEWIS, Offg. Chief Acctt
Rate for Demand Loans 10 per cent.
Percentage 31·8.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.

(3564—1)

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Feb. 12	12 Sleepers, I S R	Order ...	S. S. "City of Venice."
,, 12	1 Cask, D M in a diamond	Ditto ...	Ditto.
,, 12	2 Casks, 745 in a diamond, E S top	Ditto ...	Ditto.
,, 12	3 Cases, F E R E in a diamond	Ditto ...	Ditto.
,, 12	1 Case, 53 in a diamond, G S below	Ditto ...	Ditto.
,, 12	50 Cases, J W in a diamond	Ditto ...	Ditto.
,, 12	6 Bales, J T in a block, T P top	Ditto ...	Ditto.
,, 12	3 Cases, 8561 in a diamond, L S & Co. outside ...	Ditto ...	Ditto.
,, 12	4 Bales, P in a triangle, T C top	Ditto ...	Ditto.
,, 12	1 Case, S L B D in a diamond, S K & Co. outside ...	Ditto ...	Ditto.
,, 12	3 Casks, 87 in a diamond, T top	Ditto ...	Ditto.
,, 12	9 Casks, W L in a diamond, C below	Ditto ...	Ditto.
,, 12	1 Case, 1276 in a block within a triangle ...	Ditto ...	Ditto.
,, 12	1 Case, 600 in a diamond, W below	Ditto ...	Ditto.
,, 12	451 Packages, no mark	Ditto ...	Ditto.
,, 12	1 Parcel, S	Ditto ...	Ditto.
,, 12	1 Parcel, Mr. C. W. White	Addressed ...	Ditto.
,, 12	1 Chest, Captain Benches	Ditto ...	Ditto.
,, 12	1 Parcel, D in a triangle, J C top	Order ...	Ditto.
,, 12	1 Casting, A R T C by T R & Co.	Ditto ...	Ditto.
,, 12	3 Iron pipes, S	Ditto ...	Ditto.
,, 12	3 Iron pipes, S J F C	Ditto ...	Ditto.
,, 15	5 Cases, C in a diamond, E H F M or no mark ...	Ditto ...	Ditto.
,, 15	1 Case, M M J in a diamond, U H C outside ...	Ditto ...	Ditto.
,, 15	1 Piece pipe, M & E	Ditto ...	Ditto.
,, 15	1 Rundlet, B B	Ditto ...	Ditto.
,, 12	2 Cases, 8231 in a block, B L B outside ...	Ditto ...	S. S. " Inventor."
,, 12	3 Cases, 6098 in a block, B L B outside ...	Ditto ...	Ditto.
,, 12	11 Bales, H M S in a heart	Ditto ...	Ditto.
,, 12	1 Case, M O M I in a diamond	Ditto ...	Ditto.
,, 12	1 Case, 234 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 12	3 Bales, S M I by 583 in a block	Ditto ...	Ditto.
,, 12	10 Bales, W in a double triangle, D below ...	Ditto ...	Ditto.
,, 12	1 Case, 525 in a diamond, W M M M outside ...	Ditto ...	Ditto.
,, 12	1 Parcel, Mr. G. W. Warburton, Adabarie Tea Estate, Tezpur.	Addressed ...	Ditto.
,, 12	3 Bars T-iron, M P	Order ...	Ditto.
,, 12	1 Iron chain, K by 34 in a diamond, S S top ...	Ditto ...	Ditto.
,, 12	1 Bundle flat iron, no mark	Ditto ...	Ditto.
,, 12	11 Sheet-iron, J C by G	Ditto ...	Ditto.
,, 13	250 Kegs, H V in a diamond	Ditto ...	S.S. "Clan Mackenzie."
,, 13	1 Case, 55 in a diamond, T below	Ditto ...	Ditto.
,, 13	1 Hogshead, Y in a diamond, R M top or no mark...	Ditto ...	Ditto.
,, 13	65 Packages no mark	Ditto ...	Ditto.
,, 13	1 Case, Messrs. Whiteaway, Laidlaw & Co., Chowringhee.	Addressed ...	Ditto.
,, 13	175 Bars flat iron, diamond W N below or no mark ...	Order ...	Ditto.
,, 13	29 Casks, C in a diamond	Ditto ...	S S. "Karamania."
,, 13	2 Cases, H & G in a diamond, G below... ...	Ditto ...	Ditto.
,, 13	2 Packages, W in a diamond, K D top	Ditto ...	Ditto.
,, 13	5 Bundles sheet-iron no mark	Ditto ...	Ditto.
,, 13	9 Bales, J T in a block, T P top	Ditto ...	Ditto.
,, 13	2 Cases, L N B N in a diamond, Delhi below, G A & Co. outside.	Ditto ...	Ditto.
,, 13	1 Case, 908 in a diamond, L B top	Ditto ...	Ditto.
,, 13	1 Case, L O C K E	Ditto ...	Ditto.
,, 13	1 Case, M O M I in a diamond, G A & Co. outside.	Ditto ...	Ditto.
,, 13	1 Bale, Miss Marton, Zenana Mission House, Lucknow.	Addressed ...	Ditto.
,, 13	3 Casks, 179 in a diamond, N P & G outside ...	Order ...	Ditto.
,, 13	16 Bales, P in a triangle, T C top	Ditto ...	Ditto.
,, 13	25 Bales, W in a double triangle, D below ...	Ditto ...	Ditto.
,, 13	20 Casks, W L in a diamond, C below	Ditto ...	Ditto.
,, 13	1 Case, 793 in a diamond, W L below	Ditto ...	Ditto.
,, 13	1 Case, K F	Ditto ...	Ditto.
,, 13	2 Cases, Brojo in a block	Ditto ...	S.S. "Niobe."
,, 13	1 Case, B C	Ditto ...	Ditto.
,, 13	2 Cases, H & C in a triangle	Ditto ...	Ditto.

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Feb. 15	1 Case, S by 40 in a diamond, C H top	Order ...	S S. "Niobe."
,, 15	3 Cases, S by 51 in a diamond, C H top ...	Ditto ...	Ditto.
,, 15	2 Cases, S by 48 in a diamond, C C C H outside ...	Ditto ...	Ditto.
,, 15	5 Cases, S by 50 in a diamond, C C C H outside ...	Ditto ...	Ditto.
,, 15	1 Case, 27 in a block within a triangle, W H N below	Ditto ...	Ditto.
,, 15	1 Parcel, Baboo K L Dass & Son	Addressed ...	Ditto.
,, 15	1 Case, E. Abricht, care of Messrs. Albert Fetterli & Co., 14, Clive Row.	Ditto ...	Ditto.
,, 15	1 Case, 3046 in a diamond, A S E A outside ...	Order ...	Ditto.
,, 15	1 Case, 3054 in a diamond, A S top	Ditto ...	Ditto.
,, 15	1 Case, 3010 in a diamond, A S top	Ditto ...	Ditto.
,, 15	1 Case, B N	Ditto ...	Ditto.
,, 15	1 Case, B D by 87 in a diamond	Ditto ...	Ditto.
,, 15	1 Case, C R	Ditto ...	Ditto.
,, 15	1 Case, 625 in a diamond	Ditto ...	Ditto.
,, 15	3 Cases, D & C	Ditto ...	Ditto.
,, 15	1 Case, H E	Ditto ...	Ditto.
,, 15	1 Case, 2014 in triangle, H R & Co. below ...	Ditto ...	Ditto.
,, 15	1 Case, N S in a diamond, U H C outside ...	Ditto ...	Ditto.
,, 15	3 Cases, S J	Ditto ...	Ditto.
,, 15	2 Bundles hoop iron, no mark	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 22nd February 1890. (3565—1) G. H. SIMMONS, Vice-Chairman.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sâl beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,, ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

TARA PRASANNA GUHA, B.L., intends to apply for enrolment as a Vakeel of the High Court.
(3496—4)

Wanted

A CASHIER for the Patna Municipality on salary of Rs. 50 per month. Applicants must possess a good knowledge of English and Hindee, and should be well versed in municipal rules and forms. A security of Rs. 3,000 in cash, or landed property, is also required. Applications with testimonials will be received by the undersigned up to 28th February 1890.

SYUD FUZL IMAM, Vice-Chairman.
Patna Municipality, the 14th February 1890.
(3557—2)

Notice.

WANTED three Peshkars or Inspectors, on salaries of Rs. 30 per mensem, for settlement work in the Sonthal Pergunnahs. None need apply who have not a knowledge of plane-table, of compass-surveying and experience in settlement work. Applications with copies of certificates to be sent to the undersigned at once.

J. A. CRAVEN, Settlement Officer.
Damp Camp Deoghur, the 10th February 1890.

Notice.

WANTED a Draftsman and Estimator for the District Engineer's Office, Dinagepore, on a salary of Rs. 50 (fifty rupees only) per mensem.

Applications, with copies of testimonials and drawings, will be received by the undersigned up to 15th March next. An experienced English-knowing man will be preferred.

A. K. MOOKERJEE, District Engineer.
(3563—2)

In the Court of Baboo Shamboo Chandra Nag, Subordinate Judge of Hooghly, Third Court.

RENT EXECUTION CASE No. 58 of 1889.

Nabo Kristo Mookerjee, decree-holder, *versus* Dyal Nath Bhattacharjee and others, judgment-debtors.

THE advertised property of the above judgment-debtors will be put up to sale in the highest bid on the 10th day of March 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Hooghly, in the sale-room of the Court-house:—

Schedule of Property to be sold.

Two annas thirteen gundas one cowree one krantee share of lot Bundeipore, bearing towji No 77 of the Collectorate of Hooghly, situated in pergunnah Bundeipore, zillah Hooghly, sudder jumma of the whole 16 annas being Rs. 14,782-4-2, the upset value given by the decree-holder is Rs. (5,000), five thousand.

SHAMBOO CHANDRA NAG, Subordinate Judge.
Hooghly, the 7th February 1890. (3529—3)

Notification.

THE Zemindari Dâk Tax in the district of Sarun, for the year 1890-91, is fixed at the rate of 12 annas per cent. per annum on the sudder jamma of estates paying a revenue amounting to Rs. 50 and over.

The amount due for each estate is payable in two instalments—the first being due on the 28th March 1890, and the second on the 28th September 1890.

B. G. GEIDT, For Magistrate.

Notification.

IT is hereby notified for general information that, under section 46 of the Local Self-Government Act, No. III (B.C.), the District Board of Rajshahye, by a resolution of their meeting, held on the 22nd February 1890, have determined to levy road cess for the year 1890-91 at the maximum rate of 2 pice per rupee on the annual value of land.

J. C. PRICE, Chairman, District Board, Rajshahye.

The 22nd February 1890.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, No. III (B.C.) of 1885, the District Board of Purneah, by a resolution of their meeting of the 3rd February 1890, have determined to levy road cess for the year 1890-91 at the full rate, *i.e.*, 2 pice per rupee on the annual value of land, &c.

SURENDRA NATH MOZUMDAR, Vice-Chairman, District Board.

Purneah District Board's Office, the 5th February 1890.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, No. III (B.C.) of 1885, the District Board of Durbhunga, by a resolution of their meeting of the 10th February 1890, have determined to levy road cess for the year 1890-91 at the maximum rate, *i. e.*, 2 pice per rupee on the annual value of land, &c.

H. S BEADON, Chairman.

Durbhunga District Board's Office, the 21st February 1890,

Road Cess Notification.

DISTRICT 24-PERGUNNAHS.

IT is hereby notified that under Section 46, Act III (B.C.) of 1885, the District Board, 24-Pergunnahs, have, at a meeting held on the 21st February 1890, determined to levy road cess during the ensuing year 1890-91 at the maximum rate, namely, at the rate of one-half anna on each rupee of the annual value of land in the district.

RAJENDRA NATH MITRA, for Chairman.

Alipur, the 21st February 1890.

High Court Notice.

ESTATE RAJAH RAJ KISSEN.

Maharajah Sibkristo Bahadoor, *vs.* Kristo Chunder Ghose.

NOTICE is hereby given that on Wednesday, the 12th March next, at the hour of 1 o'clock in the afternoon, the Receiver of the High Court will put up for auction, at his office on the third floor of the Court-house, a lease for six years from the 1st Bysack 1297, corresponding with the 13th April 1890, of the undermentioned property, on the terms and conditions of a draft lease which may be inspected at the said office.

In Zillah Tipperah, Pergunnah Gungamundle, recorded in the Register of the Collector as Towji No. 545, including the Churs appertaining thereto, viz., Nobbo Chur No. 1290, Chur Bahur *alias* Teetoor Chur No. 1508, Chur Surjo and Chur Sunjoora No. 1964, Chur Assad and Doobur Chur No. 21.

In Zillah Dacca, Chur Goagachia No. 10503, Chur Jamalpur No. 10505

For conditions of auction and further particulars apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver High Court.

High Court Receiver's office, the 18th February 1890.

(3562—4)

Lost.

THE lower halves of the Government Promissory Notes Nos. 236782 and 236783 of the 4 per cent. loan of 1865 for Rs. 500 each, originally standing in the name of the Bank of Bengal, and last endorsed to General Dumber Shum Shere Jung Bahadur Rana, the proprietor, by whom it was never endorsed to any other person, having been lost, notice is hereby given that payment of the above notes and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, Calcutta, and that application is about to be made for the issue of a duplicate in favour of the proprietor The public are cautioned against purchasing or otherwise dealing with the abovementioned securities.

RAKHAL CHUNDRA CHATTERJEE, Secretary to the Representative of the Government of Nepal.

78, Dhurumtola Street, the 6th February 1890.

(3520—3)

Lost.

THE Government Promissory Note No. 238858 of 4 per cent. of 1865, for Rs. 500, originally standing in the name of Debnath Sreemany and last endorsed to Russick Lall Dutt the proprietor, by whom it was never endorsed to any other person; and also the Government Promissory Note No. 188252 of 4 per cent. of 1865, for Rs. 500, originally standing in the name of Kheeromoney Dassee, the proprietress, by whom it was never endorsed to any other person. Payment of the above notes and the interests thereupon have been stopped at the Public Debt Office, Bank of Bengal, and applications are about to be made for the issue of duplicates in favour of the proprietor and the proprietress.

RUSSICK LAUL DUTT, Bally, District Howrah.

(3550—3)

Stolen.

THE Government Promissory Note No. 220972 of the 4 per cent of 1865 for Rs. 500, originally standing in the name of Modhu Sudhir Kowar, and last endorsed to Kedar Nath Majumdar, the proprietor, by whom it was never endorsed to any other person. Payment of the above note and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest and for issue of duplicates in favour of the proprietor after two years from date of last advertisement.

KEDAR NATH MAJUMDAR, Cooch Behar.

(3497—3)

Notification.

TO be peremptorily sold pursuant to an order and decree of the Calcutta High Court, Original Civil Jurisdiction, made in suit No. 190 of 1886 (wherein Sharat Chunder Mitter was plaintiff and Lall Behary Dey was defendant), and dated, respectively, the 18th of April 1888 and 27th of May 1886, by the Registrar of the said Court in his sale-room at the said Court-house on Saturday, the 22nd of March next, at 12 o'clock noon, the following property :—

Lot 1.—No. 24 (formerly No. 19), Shambazar Street, Calcutta, being a brick-built house and the land appertaining thereto, the area of which is about 16 cottahs, and which property is bounded on the north by Shambazar Street; on the east partly by the house of Wooma Churn Chatterjee and partly by the house of Ramtanoo Chatterjee; on the south by a house and tank belonging to the estate of Kristo Mohun Biswas, deceased; and on the west by the house of Gopee Nauth Moitra.

The abstract of title and condition of sale may be seen at the Office of the Registrar, High Court, Original Jurisdiction, or at the Office of Mr. N. C. Bose, Attorney for the plaintiff, at No. 3, Hastings Street, on any day before the sale and will be produced at the sale.

R BELCHAMBERS, Registrar.

N. C. BOSE, Plaintiff's Attorney.

High Court, Original Side, the February 1890.

(3554—1)

Notification.

TO be peremptorily sold by the Registrar of the Calcutta High Court, Original Side, in his sale-room in the Court-house, on Saturday, the 15th of March next, at the hour of 12 o'clock at noon, pursuant to the decree made by the First Subordinate Judge of 24-Pergunnahs in suit No. 77 of 1885 (wherein Rakhal Dass Mullick is plaintiff and Makhan Lall Chatterjee and others are defendants), and dated 26th January 1886, and the order made by this Court in the said suit, and dated 17th March 1888, the following properties:—

Lot No. 1.—No. 32, Jahatollah Street, Calcutta, being a two-storied brick-built dwelling-house and premises with the land thereunto belonging, and on part whereof the same is erected and built, containing by estimation 4 cottahs and 12 chittacks or thereabouts, and which is bounded on the north by Dookhiram Ghose's house; on the south by Beni Madhub Ghose's house; on the east by a lane and the house of Gooroo Churn Dey; and on the west by the ryotee land of Gungaram Ghose.

Lot No. 2.—No. 24, Chasadhobaparah Street in Calcutta, being a two-storied brick-built dwelling-house and premises with the land thereunto belonging, and on part whereof the same is erected and built, containing by estimation 7 cottahs and 3 powas or thereabouts, and which is bounded on the north by the land and house purchased by Manick Chunder Mukherjee and a lane; on the east by the ancestral land of Bollye Chand Sing; on the south by the land of the said Sings and a public drain; and on the west by the house of Madhub Chunder Mundle.

The abstract of title and the conditions of sale may be seen at the Office of the Registrar, High Court, Original Side, and at the Office of Baboo Dwarka Nauth Dutt, Attorney for the plaintiff, at No. 5, Old Post Office Street in Calcutta, on any day before the sale, and will be produced at the sale.

R. BELCHAMBERS, Registrar.

Dwarka Nauth Dutt, Plaintiff's Attorney.

Calcutta High Court, Original Jurisdiction, the 16th January 1890. (3566—1)

Execution Case No. 903 of 1889.

IT is hereby notified that the following property belonging to the judgment-debtor (Sridhar Churn Nundi) will be sold by public auction by the Nazir of the District Judge of Midnapore, on the 15th day of March 1890, in the Court-house, in execution of a decree held by Iswar Chunder Chukrabatty for the realization of Rs. 823-1-3:—

Property.—Towji No. 1230, A register No. 2375, mahal Ratanea, pergunnah Kasijora, in the district of Midnapore, the Government annual revenue of which is Rs. 1,135-13.

PULIN BEHARY BOSE, First Munsif.

(3560—1)

Execution Case No. 905 of 1889.

IT is hereby notified that the following property belonging to the judgment-debtor (Sridhar Churn Nundi) will be sold by public auction by the Nazir of the District Judge of Midnapore, on the 15th day of March 1890, in the Court-house, in execution of a decree held by Srinath Chunder Chakrabati, for the realization of Rs. 807-3-6:—

Property. Towji No. 1118, A register No. 2185, mehal Papan Hari Churn *alias* Papan, pergunnah Shahapore, in the district of Midnapore, the Government annual revenue of which is Rs. 571-1-7.

PULIN BEHARY BOSE, First Munsif.

(3561—1)

Notification.

THE District Board of Hooghly, at a meeting held on the 17th February 1890, has fixed the rate of road cess to be levied in the district of Hooghly for the year 1890-91 at 6 pie per rupee on the annual value of lands and on the annual net profit of Mines, Quarries, Tramways, Railways and other immoveable property as prescribed in the law.

S. D. ROY, for Chairman.

Notice.

In the Court of the Subordinate Judge of First Court, Shahabad.

EXECUTION CASE No. 284 OF 1889.

Baboo Luchhmi Pershad Singh and another, decree-holders, *versus* Baboo Shiu Lochun Singh, judgment-debtor.

TO be sold by the Nazir of the District Judge's Court, Shahabad, on the 3rd March 1890, at 12 A.M., in the Subordinate Judge's Court-house at Arrah, the undermentioned property of the judgment-debtor Baboo Shiu Lochun Singh for satisfaction of a judgment-debt, Rs. 77,449-2:—

Ten annas and eight pies out of sixteen annas Mahal Laheri, ash with dakhl, bearing former towji No. 2656 and present towji No. 5540 of the Shahabad Collectorate, pergunnah Sasseram and sub-registry Sasseram. The annual revenue payable to Government for the entire sixteen annas mahal is Rs. 1,259-11-9.

DWARKANATH MITTER, Subordinate Judge, First Court.

Arrah, the 13th February 1890. (3568—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of JOHN HENRY GRACIES, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 3rd day of March next, at the hour of half past 10 o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

Insolvent in person. (3569-1)

In the matter of RIDHKURRUN, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 3rd day of March next, at the hour of half past 10 o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

H. C. Chick, Attorney. (3570—1)

In the matter of NUNDO LALL DEY and MANIK LALL DEY, insolvents.

On Saturday, the 24th day of November 1888, by an order of this Court, the said insolvents were adjudged entitled to their personal discharge under the Act XI Vic., Chapter XXI as to all persons named in their schedule as creditors or claiming to be creditors respectively.

Insolvents in person. (3571—1)

In the matter of SHIBCHUNDER DASS, an insolvent.

On Saturday, the 11th day of January last, it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter, and that, unless cause be shewn to the contrary on that day, the said insolvent be discharged personally as well as to his after-acquired property from all liabilities for debts, claims and demands of and against the said insolvent at the time of the filing of his petition for relief.

Insolvent in person. (3572—2)

In the matter of HURDOYAL, KANNOYALALL, SODARAM SHAM LALL, DOONGOORSEEDASS, SREENERDASH, BUNGSHEDHUR and SUJUNCOOMAR of No. 90, Sootaputty, in co-partnership as piece-goods dealers, under the style or firm of Heemutram, Sujuncoomar, insolvents.

On Tuesday, the 28th day of January last, it was, on the petition of Nutram, a creditor of the said insolvents, adjudged that the said insolvents have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

Wilson and Chatterjee, Attorneys. (3573—2)

In the matter of ROBERT WALTER HALL, a European British subject, Commander of the India General Steam Navigation Company's Flat "Borelli," at present lying in the river Hooghly in the jurisdiction of the High Court, Calcutta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Saturday, the 8th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

C. T. GEDDES, Attorney, (3574—1)

In the matter of NORRIS GRIFFITHS, residing at No. 16, Chowringhee, in Calcutta, carrying on business in co-partnership with Harry Etherington as proprietors of the Melbourne Switchback Railway at Scaldah in the Suburbs of Calcutta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 6th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Wilson and Chatterjee, Attorneys. (3575—1)

In the matter of HORINATH SHAHA and MODUN MOHUN SHAHA, of No. 72, Harkutta Lane, Bow Bazar Street, in the town of Calcutta, formerly dealers in potatoes, latterly performing work on commission, and at present without work, insolvents.

Notice that the petition of the said insolvents seeking the benefit of the Act XI Vic, Chapter XXI, was filed in the Office of the Chief Clerk on Saturday, the 8th day of February instant, and by an order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

Insolvents in person. (3576—1)

In the matter of BHOOBUN MOHUN BOSE, of No. 76, Hurry Ghose's Street, in the town of Calcutta, a clerk in the service of the Municipality of Calcutta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Monday, the 10th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3577—1)

In the matter of ROGER GEORGE SETON CREW, of No. 99, Wellesley Street, in Calcutta, a Doctor of Medicine and Surgery, and an Analytical Chemist (late Analyst to the Corporation of Calcutta), an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Tuesday, the 11th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3578-1)

In the matter of GEORGE ROBERT CLAMPITT, a ticket-collector in the East Indian Railway, lately of Dinapore, then of Jamalpore, and at present of No. 7, Bopareetola Lane in the town of Calcutta, an insolvent,

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in Office of the Chief Clerk on Tuesday, the 11th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3579—1)

In the matter of HEROMBO CHUNDER BOSE, of No. 65, Kamardangah Road in Entally in the town of Calcutta, a clerk in the office of the Comptroller of India Treasuries, an insolvent

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Friday, the 17th day of January last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Pran Nath Paul, Attorney (3580—1)

In the matter of GOBINDO CHUNDER MITTER and GOPAUL CHUNDER MITTER, both residing at No. 70, Shambazar Street, in the Town of Calcutta, carrying on business of order-suppliers, insolvents.

Notice that the petition of the said insolvents seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 23rd day of January last, and by an order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

N. G. Newgy, Attorney. (3581—1)

In the matter of DAVID JOSEPH ROBINSON, of No. 33, Serang's Lane in the town of Calcutta, an Engineer in the service of the Port Commissioners, Calcutta, an insolvent.

Notice that the petition of the said insolvent, seeking the benefit of the Act XI Vic, Chapter XXI, was filed in the Office of the Chief Clerk on Monday, the 17th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3582—1)

In the matter of JOHN HENRY GRACIES of No. 2, Chandney Choke, 1st Lane, in the town of Calcutta, a steam-crane driver in the service of the Port Commissioners, Calcutta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Thursday, the 13th day of February instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3583—1)

Chief Clerk's Office, the 25th day of February 1890

Notice.

In the matter of KALI DAS CHOKROBORTI, an insolvent.

KALI DAS CHOKROBORTI, son of Radha Gobinda Chokroborti, deceased, of Bhitadia, topa Hazradi, district Mymensingh, has been declared an insolvent and discharged.

H. PETERSON, Officiating District Judge.

Mymensingh, Judge's Office, the 7th February 1890 (3541—1)

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	4th March...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	3rd ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	10th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	10th ,, ...	Ditto.
Madras and Colombo ...	5th ,, ...	Per P. & O. steamer *Chusan*.
Straits, China and Japan ...	27th Feb. ...	Per str. *Wingsang*.
Rangoon and Moulmein ...	26th ,, ...	Ditto *Chanda*.
Ditto ditto ...	28th ,,	Ditto *Palitana*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	26th ,, ...	Ditto *Euphrates*.
Port Blair ...	27th ,,	Ditto *Peshwa*
Natal and Mauritius ...	28th ,, ...	Ditto *Warora*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 24th February 1890.

Unclaimed Letters held in the Calcutta General Post Office on 25th February 1890.

Alderson & Co.
Barook & Co.
Chuffoux, B.
Cockell, N. A. L. Q.
Cristal Tea Co.
Glasier, H.
Golmer, E.
Gunter, McInnes & Co.
Pirrie, J. S.
Presgrave, Richard Duncan.
Richards, Mrs.
Rowe, E. F.
Whittingham, Mrs.

Letters marked Care of "Post Office."

Allen, C. H.
Babonau, E. Hugh,
Baggs, Mrs.
Bain, Donald M.
Baldwin, W. H.
Baragercy, L.
Barker, F. W.
Barnafcom, F.
Barnes, W.
Baxter, Mrs.
Beltski, R.
Berkeley, C. M.
Bery, Adolph.
Brinckman, Captain.
Brown, W.
Bruce, R. G.
Carbery, Lady.
Chatterton, J.
Close, Henry.
Cooper, W.
Courage, R.
Crump, Mrs. E.
DePalma, Urbans.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Duclere, G. P.
Dunlo, Viscount.
Dymond, G. F.
Elliott, K.
Elmore, John S.
Fergusson, J. H. and Co.
Fisk, F. M.
Flaherty, O. H.
Forshaw, H.
Fraiser, H. C.
Fraiser, Miss F.
Francis, A. M.
Galbraith, Mr.
Gantzman, Charles.
Gifford, H. J.
Glover, W. E.
Godwin, George.
Green, W. W.
Grove, Henry.
Hamilton, C. J.
Hamilton, J. R.
Handcock, J. G.
Hardy, Mrs. M.
Hawksworth, Mrs.
Hewett, F. J.
Higgins, C. C.
Horus, Miss M. L.
Humphries, Mrs. H.
Hunter, H. C.
Jackson, T.
Jenkins, Miss M. R.
Johannessen, O. C.
Kennard, F.
Keogh, Mrs. M. E.
Lach, R.
Lamb, E. G.
Langer, J. O.
Lindeman, L. K.
Linton, C. E.
Livesey, Thomas.
Long, W.
Macdonald, E. B. D.
Mackenzie, J.
MacMaster, Donald.
Major, A.
Manual, A. M.
Matthews, J. R.
Mathewson, F.
Maxwell, Sir J. S.
May, J. J.
McAdoo, Mr.
McNair, Miss.
McSmith, D.
Menexis, Mrs. C.
Menzies, C.
Mifsud George.
Mole, P. C.
Morgan, Mrs. R.
Morshead, L.
Murphy, John.
Newby, C. R. A.
O'Mealy, Capt. D'Oyly.
Payne, E. H.
Penn, Mrs.
Platts, Mrs. S. K.
Potokie, Count, J.
Powell, F.
Prenter, Miss.
Remmington, Captain F. A.
Rennrick, F. B. M.
Rennard, J. R.
Robart, P.
Robinson, G.
Rodnor, W. H.
Rosenstern, Otto.
Roskell, Richard.
Rubie, Phil C.
Sano, T.
Scarle, F. W.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Sisam, Rev. W. B.
Soler, M.
Stebbing, Captain A. E.
Stretton, W. G.
Taylor, C.
Thomson, Captain W. A.
Thompson, D.
Thompson, G.
Tullock, Herbert.
Ursite, Johan.
Walter, F.
Walter, Amherst.
Weatherels, Harry.
Webster, Mrs.
Whittenberry, A. P.

Registered Letters.

Angri, Sig Natale.
Chiodetti, A.
Edwards, C.
Guiseppe, Celestini.
Leonard, C. B.
MacLeod, D. J.
MacMaster, Donald.
Marsland, W.
Mifsud, George.

Unclaimed Letters held in the Barrackpore Post Office on the 24th February 1890.

Baker, E.
Barns, A.
Bart, G. K.
Blackwell, Sergt. W.
Chadburn, Mrs. J. E.
Ferguson. H. F.
Harding, H. R.
Harvey Sergt.
Haswell, G.
Johastun, J.
Kindersley, C. E.
Lindsay, W. C.
McMinn, J.
Mertan, C. W.
Palore, L.
Stevens, Mrs. C.
Thompson, Jas

E. HUTTON
Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 21st February 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	0 6	At mouth entrance practically closed.
	Thence to Nurpur	0 6	Dhopipara.
	From Nurpur to Jungipur ...	0 9	Bangabari
	,, Jungipur to Berhampur	0 10	Kesadanga.
	,, Berhampur to Cutwa ...	1 6	Kaligunge.
	,, Cutwa to Nuddea ...	2 0	Karkona.
Bhyrub-Jelinghi.	Entrance from Ganges ...	5 0	
	Thence to Akriganj	4 9	
	Akriganj to junction of the Bhyrub and Jelinghi ...	3 9	Paharpore.
	Thence to Patkabari	4 6	Lalnagore.
	Patkabari to Nuddea	3 9	Punditpore.
Matabanga.	Entrance from Ganges ...	2 0	
	Thence to Chuypara ...	0 5	Sircarpara.
	From Chuypara to Shikarpur	0 6	Pragpore.
	,, Shikarpur to Boalia ...	0 6	Shampore.
	,, Boalia to Chuadanga ...	2 6	Sialmari.
	,, Chuadanga to Kissenganj and Hanskhali...	2 3	Bastupore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet	Feet.	Below zero.
Ganges.	Sahebganj ...	23-2-90	6	1·92	66 09	
	Rampore Boalia	23-2-90	12	0·52	42 52	
	Entrance of Bhagirati ...	22-2-90	7	1·65	46·96	
	Entrance of Bhyrub-Jelinghi ..	22-2-90	...	6·29	44·65	
	Entrance of Matabanga ...	22 2-90	...	2·25	.....	
Bhagirati ..	Berhampur ...	24-2-90	12	2·06	38·87	
Jelinghi ...	Kishnaghur ...	21-2-90	...	3·50	12·39	
	Saroopgunge ...	22-2-90	6	3·33	7·63	
Matabanga	Hanskhali ...	21-2-90	...	2 09	13 51	

PURNA CHANDRA BOSE. *Accountant, for Exe. Engr., Nuddea Rivers Division.*
Berhampore, the 24th February 1890.

Annual Statement of the Seaborne Trade and Navigation of the Bengal Presidency and of its Chief Port (Calcutta) and each of its Subordinate Ports (Chittagong, Balasore, Cuttack, Pooree, and Naraingunge). Volumes I and II. Price Rs. 20 for 1888-89. Published at the Calcutta Custom House. Previous years volumes can also be obtained at the same price.

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Reporter on Economic Products.

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PART V.

Acts of the Governor General's Council assented to by the Governor General.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Act of the Governor General of India in Council received the assent of His Excellency the Governor General on the 21st February, 1890, and is hereby promulgated for general information :—

ACT NO. III OF 1890.

An Act to amend Acts VI and VII of 1884.

WHEREAS it is expedient to amend the Inland Steam-vessels Act, 1884, and the Indian Steamships Act, 1884, in manner hereinafter appearing; It is hereby enacted as follows :— [I of 1884 II of 1884.

Inland Steam-vessels Act, 1884.

1. For the definition of "inland water" in section 5, clause (*3*), of the Inland Steam-vessels Act, 1884, the following shall be substituted, namely :— [Amendment of section 5 (3), Act VI, 1884. of 1884.

"(*3*) "inland water" means any canal, river, lake or navigable water in British India :"

2. After section 8 of the said Act the following shall be inserted, namely :— [Insertion of new section after section 8.

"8A. Before a survey under this Act is commenced, the owner or master of the steam-vessel to be surveyed shall pay to such officer as the Local Government, from time to time, appoints in this behalf— [Fees in respect of surveys.

(*a*) a fee calculated on the tonnage of the steam-vessel according to the rates in the second schedule hereto annexed, or according to any other prescribed rates; and,

(*b*) when the survey is to be made in any place of survey other than Calcutta, Madras, Bombay or Rangoon, such additional fee in respect of the expense (if any) of the journey of the surveyor to the place as the Local Government, from time to time, by notification in the official Gazette, directs."

3. In section 10, sub-section (*3*), of the said Act the words "in addition to the fee payable for the certificate" are hereby repealed. [Repeal of part of section 10 (3), Act VI, 1884.

4. (*1*) In section 11, sub-section (*1*), of the said Act the words "fees and other" are hereby repealed. [Amendment of, and addition to, section 11, Act VI, 1884.

(*2*) To the same section the following sub-section shall be added, namely :—

"(*4*) The Local Government may, from time to time, delegate,—

(*a*) with the previous sanction of the Governor General in Council, to any person, by name or as holding an office, the function, assigned to the Local Government by sub-section (*1*), of granting a certificate of survey under that sub-section ;

(*b*) of its own authority, to any person, by name or as holding an office, the function, assigned to the Local Government by sub-section (*3*), of causing notice to be given of a certificate of survey being ready for delivery :

Provided, with respect to clause (*a*) of this sub-section, that no delegation of the function mentioned in that clause shall be construed to authorise the grant of a certificate of survey by the surveyor who gave the declaration of survey under section 9."

5. Section 12 of the said Act is hereby repealed. [Repeal of section 12, Act VI, 1884.

6. In section 17 of the said Act, between the word "which" and the word "granted", in both places where the expression [Amendment of section 17, Act VI, 1884.

"which granted" occurs, the words "or whose delegate" shall be inserted.

Amendment of section 19, Act VI, 1884.

7. In section 19, sub-section (*1*), of the said Act, after the words "on the application of the owner or master," the words "and the payment by him of such fee, not exceeding twice the amount of the fee for the previous survey, as the Local Government may require," shall be inserted.

Amendment of section 21, Act VI, 1884.

8. In section 21, sub-section (*2*), clause (*d*), of the said Act, for the words "for certificates of survey" the words in respect of surveys" shall be substituted.

Insertion of new section after section 25, Act VI, 1884.

9. After section 25 of the said Act the following shall be inserted, namely:—

Grant of certificates of service.

"25A. (*1*) The Local Government may in its discretion grant without examination to any person who has served as a master, or as an engineer, or as an engine-driver, of an inland steam-vessel before the first day of April, 1890, a certificate of service to the effect that he may act as a first-class or second-class master, or as an engineer, or as an engine-driver, as the case may be, of an inland steam-vessel.

(*2*) A certificate of service so granted shall have the same effect as a certificate of competency granted under this Act after examination."

Amendment of section 26, Act VI, 1884.

10. In section 26 of the said Act the words "or service" shall be inserted after the word "competency".

Addition to section 29, Act VI, 1884.

11. To section 29 of the said Act the following shall be added, namely:—

"The Local Government may also make rules with respect to the grant of certificates of service under this Act, and may by such rules—

(*a*) fix the fees to be paid for such certificates, and

(*b*) prescribe the form in which such certificates are to be framed and the manner in which the copy of the certificate which is kept by the Local Government is to be recorded."

Addition to Chapter VII, Act VI, 1884.

12. To Chapter VII of the said Act the following shall be added, namely:—

Power for Local Government to make rules for protection of passengers.

"51A. (*1*) The Local Government may also make rules for the protection of passengers in inland steam-vessels, and may by such rules require, among other matters, a sufficient quantity of fresh water to be provided free of charge in such vessels for the use of passengers, and the prices of passenger-tickets to be printed or otherwise denoted on such tickets.

(*2*) Any rule under this section may contain a provision that any owner, master or passenger committing a breach of it shall be punished with fine which may extend to fifty rupees."

Insertion of new section after section 54, Act VI, 1884.

13. After section 54 of the said Act the following shall be inserted, namely:—

Penalty for having excessive number of passengers on board.

"54A. If an inland steam-vessel has on board thereof or on or in any part thereof a number of passengers which is greater than the number of passengers set forth in the certificate of survey as the number which the vessel or the part thereof is, in the judgment of the surveyor, fit to carry, the owner and master shall, for every passenger over and above that number, be each liable to a fine which may extend to ten rupees."

Amendment of heading to second schedule, Act VI, 1884.

14. In the second schedule to the said Act, for the words and figures "*See section 12*" the words, figure and letter "*See section 8A*" shall be substituted.

Indian Steamships Act, 1884.

Insertion of new section after section 10, Act VII, 1884.

15. After section 10 of the said Act the following shall be inserted, namely:—

Fees in respect of surveys.

"10A. Before a survey under this Act is commenced, the owner or master of the steamship to be surveyed shall pay to such officer as the Local Government, from time to time, appoints in this behalf—

(*a*) a fee calculated on the tonnage of the steamship according to the rates in the schedule hereto annexed or according to any other prescribed rates and

(*b*) when the survey is to be made in any port of survey other than Calcutta, Madras, Bombay or Rangoon, such additional fee, in respect of the expense (if any) of the journey of the surveyor to the port, as the Local Government, from time to time, by notification in the official Gazette, directs."

Repeal of part of section 12 (3), Act VII, 1884.

16. In section 12, sub-section (*3*), of the said Act, the words "in addition to the fee payable for the certificate" are hereby repealed.

Amendment of, and addition to, section 13, Act VII, 1884.

17. (*1*) In section 13, sub-section (*1*), of the said Act the words "fees and other" are hereby repealed.

(*2*) To the same section the following sub-section shall be added, namely:—

"(*4*) The Local Government may, from time to time, delegate,—

(*a*) with the previous sanction of the Governor General in Council, to any person, by name or as holding an office, the function, assigned to the Local Government by sub-section (*1*), of granting a certificate of survey under that sub-section;

(*b*) of its own authority, to any person, by name or as holding an office, the function, assigned to the Local Government by sub-section (*3*), of causing notice to be given of a certificate of survey being ready for delivery:

Provided, with respect to clause (*a*) of this sub-section, that no delegation of the function mentioned in that clause shall be construed to authorise the grant of a certificate of survey by the surveyor who gave the declaration of survey under section 11."

Repeal of section 14, Act VII, 1884.

18. Section 14 of the said Act is hereby repealed.

Amendment of section 19, Act VII, 1884.

19. In section 19 of the said Act, between the word "which" and the word "granted", in both the places where the expression "which granted" occurs, the words "or whose delegate" shall be inserted.

Amendment of section 21, Act VII, 1884.

20. In section 21, sub-section (*1*), of the said Act, after the words "on the application of the owner or master," the words "and the payment by him of such fee, not exceeding twice the amount of the fee for the previous survey, as the Local Government may require," shall be inserted.

Amendment of section 24, Act VII, 1884.

21. In section 24, sub-section (*2*), clause (*d*), for the words "for certificates of survey" the words "in respect of surveys" shall be substituted.

Amendment of heading to second schedule, Act VII, 1884.

22. In the schedule to the said Act, for the words and figures "*See section 14*" the words, figures and letter "*See section 10A*" shall be substituted.

S. HARVEY JAMES,
Secretary to the Government of India.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 26, 1890.

SECOND QUARTER.

BENGAL LIBRARY CATALOGUE OF BOOKS

FOR THE

Second Quarter ending the 30th June 1889.

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication	Name or firm of printer, and name or firm of publisher.
						ARABIC
	RELIGION.					
33	Adab Ul Mufrad. Lessons on Morals and Manners.	Arabic...	Hafiz Muhammad.	Religion, M.	Lithographed and published at Arrah.	Lithographed by Muhammad Idris, and published by Abu Muhammad Ibrahim.
34	Al Musnad o Lel Imam Safáí. Imam Safáí's Throne.	ditto ...	Abu Abdulla Muhammad.	ditto ...	ditto ditto ...	ditto ditto ...
						ASSAMESE
	ART.					
	The following work is designed for educational purposes.					
186	Saral Bhúmi Parimán. Simple Mensuration.	Assamese.	Prabhát Chandra Saraswatí.	Art ...	Printed at 46, Panchánantala Lane, Calcutta, and published at Gauhati.	Printed by Sánnyál & Co., and published by Prabhát Chandra Saraswatí.
	DRAMA.					
187	Bhram Ranga. The Comedy of Errors. (T.)	ditto ...	Translated by Ratnadhar Barua and others.	Drama ..	Printed and published at 100, Bowbazar Street, Calcutta.	Printed and published by B. C. Sarkár.
	MISCELLANEOUS.					
	The following work is designed for educational purposes.					
188	Kárya Shikshá. Instruction in Business.	ditto ...	Kálirám Baruá.	Miscellaneous.	Printed at 84, Raja Rajballabh's Street, Calcutta, and published at Kámrup, Gauhati.	Printed by Naba Kumár Bose, and published by Kálirán Baruá.
	POETRY.					
189	Mahájan. The Great Man.	ditto ...	Dibákar Sharmá.	Poetry ...	Printed at 132, Maniktala Street, Calcutta, and published at Jorehat, Assam.	Printed by Harihar Nandi, and published by Dibákar Sharmá.
	RELIGION.					
190	Kán Khoá o Rás Kriyá. The Ear Eating Demon and the Rása sports of Krishna. (R).	ditto ...	Sankar Deb and Sridhar Kandali.	Religion, H.	Printed at 333, Upper Chitpore Road, Calcutta, and published at Barpeta, Assam.	Printed by Binod Bihári Sil, and published by Dáibar Rám Byápári.
	SCIENCE (MATHEMATICAL.)					
	The following work is designed for educational purposes.					
191	Dhárápát. Arithmetical Tables.	ditto ...	Kálirám Barua	Science (Mathematical.)	Printed at 84, Raja Rajballabh's Street, Calcutta, and published at Kamrup, Gauhati.	Printed by Nabakumár Bose, and published by Kálirám Barua.
						BENGALI
	ART.					
3471	Saral Púrtta Shikshá. Easy Knowledge of Public Works. Parts II, III, IV.	Bengali.	Kunjabiharí Chaudhúrí.	Art ...	Printed and published at Bhawanipore.	Printed and published by Nabin Krishna Mukharji.

Quarter ending 30*th June* 1889.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication	Number of sheets, leaves, or pages.	Size.	First second, or other edition.	Number of copies of which the edition consists.	Printed or litho-graphed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks	Number.
BOOKS.									
1889.	Pages.					Rs. A. P.			
April, 7th	196	11× 7 ...	1st ...	1,050	Litho-graphed.	1 12 0	Abu Muhammad Ibrahim, Ar-rah.	Based on the Hadis,... ...	33
Mar., 20th	220	11× 7 ...	1st ...	1,050	ditto „	1 12 0	ditto ...	The standard work of Iman Sáfáí's school of Sunnism. It is based on the Hadis.	34
BOOKS.									
1889.									
Mar., 19th	71	12mo dy	2nd ...	1,000	Printed	0 6 0	Prabhát Chandra Sarasvati, Gau-hatí.	.....	186
April, 17th	101	12mo dy	1st ...	500	ditto ...	0 6 0	R. D. Barua, R.K Barkákati, G. N. Barua, and G. S. Barua, 40, Panchánantala Lane, Calcutta.	An Assamese translation of Shakespeare's Comedy of Er-rors.	187
May, 21st	74	8vo dy...	15th .	3,000	ditto ...	0 6 0	Kálirám Baruá. Kamrup, Gau-hati.	.....	188
„ 14th	10	12mo dy	1st ...	1,000	ditto ...	0 1 0	Dibákar Sharmá, Sibságar, As-sam.	The writer thinks that a man who is virtuous, fears God, and sympathises with the sufferings of others, is a great man.	189
April, 26th	38 .	12mo dy	New	1,000	ditto ...	0 4 0	Dáibar Rám Byá-pári, Barpeta, Assam.	Kán Khoá is a demon who is supposed to eat the ears of children. Jasodá wants to frighten the infant Krishna by inspiring him with a dread of this demon; but Krishna says he knows nothing about him.	190
May, 6th	24	8vo dy	2nd ...	4,000	ditto ...	0 1 6	Kálirám Barua Kamrup, Gau-hati.	.....	191
BOOKS.									
June, 15th	156	12mo dy	1st '...	1,000	ditto ...	1. 8 0	Kunjabiharí Chaudhuri.	A manual of Civil Engineering. The present work treats of the construction of roads and bridges and of the excavation of tanks. It contains a number of illustrations and diagrams.	8471

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	ART—*concld.*					
	The following works are designed for educational purposes.					
8472	Parimiti. Mensuration	Bengali	P. Ghosh ...	Art ..	Printed and published at 28 Convent Road, Entally.	Printed and published by Dwaraká Náth Nandan.
8473	Saral Parimiti. Simple Mensuration.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
8474	Sahaj Parimiti. Easy Mensuration.	ditto ...	Brajapati Banerji.	ditto ...	Printed at 23-1, Bechu Chatterji's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by Jadu Nath Sil, and published by the Sanskrit Press Depository.
8475	Saral Sámatalik Parimiti. Simple Mensuration of Plane Surfaces.	ditto ...	Srinath Dé ...	Jitto ...	Printed at 6, Balaram De's Street, and published at 148, Baranasi Ghosh's Street, Calcutta.	Printed by H. M. Mukharji and Company, and published by the Sanskrit Press Depository.
8476	Ditto ditto ...	ditto ..	ditto ..	ditto ..	ditto ditto ..	ditto ditto ...
8477	Deshiya Jarip. The Indigenous Method of Surveying.	ditto ..	Rájeswar Gupta.	ditto ..	Printed and published at 2, Benetola Lane, Calcutta.	Printed and published by Natabar Chakrabartí.
8478	Hastalipir Adarsha. A Copy-book.	ditto ...	Rajanikánta Chatterji.	ditto ...	Printed and published at the Amar Press, Komilla.	Printed and published by Nilambar Datta.
8479	Krishi Sopán. Elementary Treatise on Agriculture.	ditto ..	G. C. Bose ..	ditto ..	Printed and published at Serampore.	Printed and published by Jitendra Náth De.
	BIOGRAPHY.					
8480	Kabiranjan Ráinprasád Sener Jiban Brittánta. A Biography of Rámprasád Sen.	ditto ..	Shántirám De.	Biography.	Printed at 374, and published at 112, Chitpore Road, Calcutta.	Printed by Hara Chandra Das, and published by Shántiram De.
8481	Jiban Charit ..	ditto ..	Ajimuddin Muhammad Chaudhuri.	ditto ...	Printed and published at Barisal.	Printed by Iswar Chandra Kar, and published by Kází Afzaluddin.
	DRAMA.					
8482	Mahábhárat Nátya Kábya. The Mahábhárata A Drama. Vol. II. Part 6.	ditto ...	Prafulla Chandra Mukharji.	Drama ...	Printed at 4, Garstin's Place, and published at 22, Beadon Street, Calcutta.	Printed by Nandamohan Banerji, and published by Prafulla Chandra Mukharji.
8483	Ditto ditto. Vol. II. Part 7.	ditto ...	ditto ...	ditto ...	ditto ditto ..	ditto ditto ...
8484	Bichitra Bichár Nátak A Drama describing a Curious Trial.	ditto ...	Nabakrishna Banerji.	ditto ...	Printed at 3, Beadon Square, and published at 34, Nemu Gosain's Lane, Calcutta.	Printed by Biharilál Das, and published by Haridás Bhattácháryya.
8485	Rában Badh. The Fall of Rában.	ditto ...	Jnánendra Mohan Shet.	ditto ...	Printed at 333, and published at 118, Upper Chitpore Road, Calcutta.	Printed by Binod Bihari Sil, and published by Jnánendra Mohan Shet.
8486	Kalikáler Rasik Meye Bhátárpáne Dekhená Cheye. The Flirts of the Kalijuga utterly disregard their husbands.	ditto ...	Hárána Shashi De.	ditto ..	Printed at 339, Chitpore Road, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Kaliprasanna Raya, and published by Lálbihari Sen.
8487	Jayadratha Badha Játrá. A Melodrama describing the fall of Jayadratha.	ditto ...	Tinkarí Biswas.	ditto ...	ditto ditto ...	ditto ditto ...
8488	Skul mástar. The Schoolmaster.	ditto ...	Ashutosh Sen	ditto ...	Printed at 221, Cornwallis Street, and published at 50, Guruprasad Chaudhuri's Lane, Calcutta.	Printed by Matilál Mandal, and published by Ashutosh Sen.

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or litho-graphed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
Mar., 29th	274	16mo ...	2nd ..	3,000	Printed	0 12 0	P. Ghosh, 28, Convent Road, Entally.	.....	8472
„ 10th	74	16mo ...	2nd ...	5,000	ditto ...	0 3 0	ditto ...	.....	8473
April, 10th	42	12mo dy	7th ...	2,000	ditto ...	0 2 0	Brajapati Banerji, Gauhati, Assam.	.....	8474
„ 6th	98	12mo ...	7th ...	2,000	ditto ...	0 4 0	Srinath Dé, Bogra.	.....	8475
May, 16th	98	12mo ...	8th ...	3,000	ditto ...	0 4 0	ditto ...	.....	8476
April, 10th	46	8vo dy	2nd ...	1,000	ditto ...	0 5 0	Rajeswar Gupta, Chittagong.	.....	8477
May, 6th	20	12mo dy	5th ...	500	ditto ...	0 1 3	.....	.....	8478
April, 29th	125	16mo rl	1st ...	500	ditto ...	0 8 0	G. C. Bose, 116, Bow Bazar Street, Calcutta.	"Adapted for use in elementary schools or classes in Bengal."	8479
1889. May, 13th	45	12mo ...	1st ...	1,000	ditto ...	0 4 0	.....	Contains much interesting information about the life and writings of Rámprasád Sen, a Bengali poet of the last century.	8480
April, 25th	156	9 × 6	1st ...	500	ditto ..	0 12 0	.....	The Autobiography of a Mahomedan head-constable of the Barisal Police. It is an interesting work as giving an insight into respectable Mahomedan life, and also into the working of the old and the new police systems.	8481
„ 5th	32	8vo dy...	1st ...	500	ditto ...	0 2 0	.....	Goes on with the *Sambhabaparbá-dhyáya* of the *Adiparba*.	8482
May, 6th	32	8vo dy...	1st ...	500	ditto ...	0 2 0	.....	ditto ditto ...	8483
„ 14th	92	12mo dy	2nd ...	1,000	ditto ...	1 0 0	Haridás Bhattácháryya, Calcutta.	Noticed	8484
April, 16th	46	12mo rl	2nd ...	1,000	ditto ...	0 8 0	Jnánendra Mohan Shet.	A mythological drama ...	8485
June, 3rd	12	12mo dy	2nd ...	1,000	ditto ...	0 0 3	Lálbiharí Sen, Calcutta.	Street literature	8486
May, 26th	48	12mo rl	Revised.	1,000	ditto ...	0 6 0	ditto ...	Based on the story of the fall of Jayadratha, the brother-in-law of Durjodhana, as given in the Mahabharata.	8487
Mar., 20th	34	12mo dy	1st ...	1,000	ditto ...	0 2 6	.....	Complains of the absolute want of discipline in some of the schools under private management in Calcutta. The managers look more to the financial success of their institutions, and sacrifice discipline, morality, and education to money.	8488

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	DRAMA—*contd.*					
8489	Shashi Mukhi. (A Name)	Bengali	Siddheswar Chatterji.	Drama ...	Printed at the Gupta Press, and published at 5, Panchu Dutt's Lane, Calcutta.	Printed by Abhayacharan Gupta, and published by Harimani Dasi.
	pays everything he gets by this means to women of ill-fame. Shashimukhi, thus deserted, stung with remorse devotions gather a large number of female devotees round her, and she preaches a form of Durga worship. Hi or					
8490	Prabhás Jajna Játrá. A Melo-drama describing the Sacrifice at Prabhás.	ditto ...	Jiban Krishna Chatterji.	ditto ...	Printed at 6, Garanhata Street, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Gobinda Chandra Datta, and published by Gangádhar Sil.
8491	Jagaddhátri. (A Name)	ditto ...	Haripada Chatterji.	ditto ...	Printed at 80, Muktarám Babu's Street, and published at 133, Canning Street, Calcutta.	Printed by Bagalá Charan Batabyál. and published by Haripada Chatterji.
8492	Chandrahansa. (A Name)	ditto ...	Jogendra Nath Mukharji.	ditto ...	Printed at 109, College Street, and published at 58, Patuatola Lane, Calcutta.	Printed by Umá Charan Chakrabarti, and published by Sitanáth Bhattácharyya.
	buddhi, acting under the advice of his still more wicked friend Lubdhaka. The Rani fled to the forest and pro- who banished his own son-in-law, and was the cause of the death of his daughter and of one of his wives, wanted master's son.					
8493	Golebakáali Nátak. Of Bakáwali. A Drama.	ditto ...	Kedar Nath Ganguli.	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 19, Brindaban Basak's Lane, Calcutta.	Printed by Kaliprasanna Ráya, and published by Upendra Nath Mukharji.
8494	Dharat Bilap. The Lament of Bharat.	ditto ..	ditto ...	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 326, Upper Chitpore Road, Calcutta.	Printed by Kaliprasanna Ráya, and published by Shyámlál Sil.
8495	Lampater Náke Khat. Woe to the Licentious.	ditto ...	Gaurdas Bairági.	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 5, Rammohan Saha's Lane, Calcutta.	Printed by Kaliprasanna Ráya, and published by Giridhári Bairági.
8496	Sati Nátak. A Drama describing the death of Sati.	ditto ...	Mahesh Chandra Dás De.	ditto ...	Printed at 68, Nimu Gosain's Lane, and published at 108, Upper Chitpore Road, Calcutta.	Printed by Kaliprasanna Ráya, and published by Sarat Chandra Bhattácháryya.
8497	Tarani Sen Badh Nátak. A Drama describing the Fall of Tarani Sen.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8498	Prahlád Charitra Nátak. A Drama Describing the Career of Prahlád.	ditto ...	ditto ...	ditto ...	ditto ditto ...	Printed by Kaliprasanna Ráya, and published by Devendranáth Chatterji.
8499	Sati. The Chaste One ...	ditto ..	Háridás Bhattácháryya.	ditto ...	Printed at 3, Beadon Square, and published at 37, Nimu Gosain's Lane, Calcutta.	Printed by Biharilál Dás, and published by Haridás Bhattácháryya.
8500	Golap Ful. The Rose ..	ditto ...	Hárána Shashi De.	ditto ...	Printed and published at 3, Beadon Square, Calcutta.	Printed and published by Biharilál Dás.
8501	Pándava Nirbásan Gitábhinaya. Exile of the Pandavas. An Opera	ditto ...	Matilál Ráya...	ditto ...	Printed at 6, Balaram De's Street, and published at Bhatsálá.	Printed by H. M. Mukharji & Co., and published by Dharmadás Ráya
8502	Bijay Chandi Gitábhinaya. The Victorious Chandi. An Opera.	ditto ...	ditto ...	ditto ...	Printed at 6, Balaram De's Street, and published at 57, College Street, Calcutta.	Printed by H. M. Mukharji & Co., and published by Shri Rám Chandra Bhattácháryya.
8503	Báránasi Bilás. Sports at Banarás.	ditto ...	Nagendra Nath Ghosh.	ditto ...	Printed and published at 132, Amherst Street, Calcutta.	Printed by H. C. Datta & Co., and published by Táráprasanna Mitra.
8504	Chakshusthir Nátak. A Drama describing the condition of being stunned.	ditto ...	Kshetra Mohan Chakrabarti.	ditto ...	Printed at 54, Balarám De's Street, and published at 98-3, Chitpore Road, Garanhátá, Calcutta.	Printed by Rákhál Chandra Das, and published by Ram Kánái Dás.
8505	Mág Sarbaswa. The Henpecked Husband.	ditto ..	Ram Kánái Das	ditto ...	ditto ditto ...	ditto ditto ...

Quarter ending 30th June 1889—continued.

8	9	10	11	12	13	14	15	16	17
Date of issue from the press, or place of publication.	Number of sheets, leaves, or pages.	Size.	First, second, or other edition.	Number of copies of which the edition consists.	Printed or lithographed.	Price at which the book is sold to the public.	Name and residence of proprietor of copyright, or any portion of it.	Remarks.	Number.
BOOKS—continued.									
1889.	Pages.					Rs. A. P.			
May, 26th	52	12mo ...	1st ...	1,000	Printed	1 0 0	Siddheswar Chatterji and Harimani Dasi, 5, Panchu Dutt's Lane, Calcutta.	The story of a *Kulin's* daughter deserted by her husband, who marries any number of girls for money, charges an exorbitant fee for visiting them, and renounces the world, and devotes herself to the service of Durgá, who manifests herself before her. Her husband joins her followers, and they are reunited.	8489
„ 14th	48	12mo dy	3rd ...	1,000	ditto ...	0 6 0	Gangádhar Sil, Calcutta.	Often noticed	8490
„ 3rd	57	12mo dy	1st ..	1,000	ditto ...	0 4 0	.....	The story of an educated midwife, named Jagaddhátri, who remarries at the instance of her stepson at a time when nothing is known as to the whereabouts of her husband. After remarriage she leads an exceedingly dissolute life.	8491
Mar., 1st	123	8vo dy	1st ...	500	ditto ...	0 12 0	Jogendra Nath Mukharji, 58, Patuatola Lane, Calcutta.	The story of Chandrahansa, whose father, Raja Dadhimukha, was dethroned and killed by his wicked minister Dhristabuddhi, who served the life of Chandrahansa, who grew up without knowing who his father was. The wicked Dhristabuddhi, to kill Chandrahansa also, but he was not successful. He was at last compelled to abdicate in favour of his	8492
April, 24th	72	12mo rl	Revised	1,000	ditto ...	0 8 0	Upendra Nath Mukharji, Calcutta.	One of the well-known Persian tales dramatised.	8493
Mar., 5th	48	12mo rl	do. ...	1,000	ditto ...	0 6 0	Shyámlál Sil ...	.....	8494
May, 4th	18	12mo dy	1st ...	1,000	ditto ...	0 1 0	Giridhári Bairági, Calcutta.	Street literature	8495
April, 26th	96	12mo rl	Revised.	1,000	ditto ...	0 12 0	Sarat Chandra Bhattácháryya, Calcutta.	.....	8496
„ 27th	44	12mo rl	do. ...	1,000	ditto ...	0 6 0	ditto ...	.....	8497
„ 27th	48	12mo rl	do. ...	1,000	ditto ...	0 6 0	Devendranáth Chatterji, Calcutta.	.....	8498
May, 18th	20	12mo dy	1st ...	1,000	ditto ...	0 3 0	Haridás Bhattácháryya, Calcutta.	The story of a rich mofussil zemindar who attempts without success to violate the honour of a chaste lady, the wife of a poor Brahmin, living on his land,	8499
April, 19th	30	16mo dy	1st ...	1,000	ditto ...	0 2 0	Biharilál Das, Calcutta.	Golap Ful, a lady comes on board a boat from the sea without a companion. A company of girls pick her up, and she is married to Jogesh, the Prince of Gaur. She falls into the hands of dacoits, and is rescued by her husband.	8500
„ 27th	138	8vo dy	2nd ...	2,000	ditto ...	1 4 0	Matilál Raya, Bhatsálá (Burdwan).	.....	8501
Mar., 2nd	147	8vo dy	4th ...	2,000	ditto ...	1 4 0	ditto ...	A well-known work	8502
April, 26th	74	12mo dy	1st ...	500	ditto ...	0 8 0	Nagendra Nath Ghosh, Bhowanipore.	A mythological drama, based, it appears, on Bhárat Chandra's Annadá Mangal.	8503
May, 15th	36	12mo dy	4th ...	1,000	ditto ...	0 4 0	Ram Kánái Dás ...	.....	8504
„ 10th	36	12mo ...	7th ...	1,000	ditto ...	0 2 0	ditto ...	.....	8505

1	2	3	4	5	6	7
Number.	Title (to be translated into English when the title-page is not in that language).	Language in which the book is written.	Name of author, translator, or editor of the book, or any part of it.	Subject.	Place of printing and place of publication.	Name or firm of printer, and name or firm of publisher.
						BENGALI
	DRAMA—*concld.*					
8506	Gádhá O Tumi. You and Ass.	Bengali	.....	Drama ...	Printed at 3, Beadon Square, and published at 18, Banstalá Street, Calcutta.	Printed by Bihari Lál Das, and published by Matindra Nath Mukharji.
	FICTION.					
8507	Sainik Ramani. The Soldier's Wife. (T.)	ditto ...	Jogendra Nath De	Fiction ...	Printed and published at 18, Cossipore Ghát Road.	Printed by Brajagopal Shet, and published by Jogendra Náth De.
8508	Chandra Sekhar. (A Name).	ditto ...	Bankim Chandra Chatterji.	ditto ...	Printed at 23-1, Beehu Chatterji's Street, and published at 5, Pratap Chatterji's Lane, Calcutta.	Printed by Jadunáth Sil, and published by Umácharan Banerji.
8509	Turaska Upanyás. Turkish Tales. (T.)	ditto ...	Sarat Chandra Deva Sharmá.	ditto ...	Printed at 45, Maniktalá Street, and published at Narail.	Printed by Kshirod Nath Ghosh, and published by Sarat Chandra Deva Sharmá.
8510	Páhára Meye. The Terrible Woman.	ditto ..	Priya Nath Mukharji.	ditto ..	Printed at 34, Benetola Lane, and published at 58, College Street, Calcutta.	Printed by Ashutosh Banerji, and published by Kalidás Lahuri.
8511	Galpa Kalpataru. Tritiya Kusum Shánti Kutir. The Desire-fulfilling Tree of Stories. The Third Flower. The Cottage of Peace.	ditto ...	Rajkrishna Ráya.	ditto ...	Printed at 37, Mechua Bazar Street, and published at 201, Cornwallis Street, Calcutta.	Printed by Sarat Chandra Deva, and published by Gurudás Chatterji.
8512	Galpa Kalpataru. Chaturtha Kusum. Adbhut Dakát. The Desire-Fulfilling Tree of Stories. The Fourth Flower. The Terrible Dacoit.	ditto ...	ditto ...	ditto ..	ditto ditto ...	ditto ditto ...
8513	Upanyás Málá. A collection of Stories. Part I.	ditto ...	R. L. Biswás	ditto ..	Printed at the Chitpore New Prákrita Press, and published at Bagbazar.	Printed by Rakhal Chandra Das, and published by R. L. Biswás.
8514	Ditto ditto. Part II.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8515	Ditto ditto. Part III.	ditto ...	ditto ...	ditto ...	ditto ditto ...	ditto ditto ...
8516	Basanta Kumár. The Son of the Spring.	ditto ...	Sarat Chandra Sarkár.	ditto ...	Printed at 3, Beadon Square, and published at 37, Nimu Gosain's Lane, Calcutta.	Printed by Biharilál Das, and published by Haridas Bhattácháryya.
8517	Bángáli Meye. Bengali Girl.	ditto ...	.....	ditto ...	Printed and published at 3, Beadon Square, Calcutta.	Printed and published by Biharilál Das.
8518	Bau Kathá Kao. Speak, O Young Bride.	ditto ...	.....	ditto ...	ditto ditto ...	Printed by Bihari Lál Das, and published by Upendra Nath Mukharji.
	his wife speaking to his friend Ganesh. As a modest Hindu lady, she refuses to do so. Ganesh sees her and to shake off her bashfulness. They come to Calcutta. Gopal had a widowed sister. Ganesh wants to marry her his absence, and attempts to dishonour his wife. Unsuccessful in this, he accuses her of unchastity, and Gopal, and commits suicide. Gopal's sister accuses Ganesh of various crimes, and gets him transported for life.					
8519	Bibir Nách. The Ball ..	ditto ...	.....	ditto ...	ditto ditto ...	ditto ditto ...
	Anglicised young man, reluctantly performs the funeral ceremony of his mother according to Hindu rites, but patrimony and proceeds to Calcutta, educates his wife as an emancipated girl, and goes to preach Brahmoism his wife takes all sorts of liberties with her male friends, and becomes a proficient in the European art of and he drowns himself in the river.					

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WEDNESDAY, FEBRUARY 26, 1890.

OFFICIAL PAPERS.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 15th February, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General*.

The HON'BLE F. B. PEACOCK.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

CALCUTTA PORT BILL.

The Hon'ble Sir Henry Harrison moved that the Report of the Select Committee on the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port, be taken into consideration in order to the settlement of the clauses of the Bill.

The Motion was put and agreed to.

The Hon'ble Sir Henry Harrison also moved that the clauses of the Bill be considered for settlement in the form recommended by the Select Committee.

He said:—"I think the Select Committee may fairly claim to be satisfied with the work which they have put before the Council. It is perfectly clear that in regard to one section, eighty-five, and other matters cognate thereto, we have been confronted with very great difficulties which, I am free to admit that though we have tried our best to surmount, still remain for discussion. But putting that section aside, and the questions arising out of it, and looking to the fact that no other amendments are proposed except in regard to that matter, I think we may claim to have settled the Bill in a manner satisfactory to all parties.

"There were several other controversial questions: for instance, the question of the number of Commissioners, in regard to which the Bill can only be said not to have given general satisfaction, because the National Chamber of Commerce have expressed their dissatisfaction; but upon that point the Lieutenant-Governor gave a hearing to the representatives of that Chamber, and at the end, I think, they also were satisfied. Anyhow, it seems that no member of the Council has moved an amendment on that section. The number of members asked for has been given to the Bengal Chamber of Commerce. And, as regards the number of native Commissioners, we think it better to trust to the probability that two of the members who will be returned by the elective bodies themselves will be natives, than to say that two of the elected Commissioners must be natives. Your Honour yourself has pointed out that to the Bengal Government are allotted only five members, whereas it may be said that six interests, including the Chairman of the Municipality, require representation. As regards the Municipality, I think it is clear from our proceedings that we do not suggest any guarantee that the Chairman shall be nominated; and I may say that this is one of the six interests for which there are five vacancies—but what the Select Committee have considered, and what the Government, I believe, have accepted, is that, if the Chairman is to be a member then he can be nominated. Anyhow, it is intended that the Municipal Commissioners ought to have the right of free election without having to consider that, if they do not elect their Chairman he cannot be a member of the Port Commission.

"Then, as regards the questions as to the control of the Government over the budget and over rules to be passed by the Port Commissioners and other matters, we have settled them in a way which, from the absence of any amendment, seems to have given satisfaction to all parties.

"Lastly, as to the important question of the equitable assessment of the Port Trust property, we have introduced a new assessment section which appears to give satisfaction on the one hand to the Port Trust, and on the other hand to the Municipality and the Local Government. Your Honour appears to be satisfied with the duty imposed on the Government of mediating in the matter should it appear necessary.

"As regards the one debatable section, its details will be discussed when the amendment comes before the Council. All I wish to say now generally is, that I think the Hon'ble Mr. Moore will admit that from the first the Council has endeavoured to meet the question in a conciliatory manner, and that the impression that there was an endeavour to harden the law or to make the law more drastic, is without foundation. From the very first we introduced some modification in the former section by giving the Local Government the power of awarding compensation when they are satisfied it should be given; but it appears that the persons who are interested do not consider that an executive guarantee of that kind is satisfactory. They consider that they are entitled to some legal guarantee, and therefore in that form the section is no longer before the Council, but has been modified. Still I may fairly claim to say that from

the first the Select Committee, wherever they have touched questions of this kind at all, have always touched them in the way of softening rather than of hardening previous laws.

"It may be objected that the section was so worded as to have retrospective effect; but the old section required to be re-introduced with retrospective effect, because it has been in force for the last twenty years: and when we found there must be a discussion on it, we placed it in the more simple form of giving it retrospective effect instead of giving it effect from 1870. If the solution of giving it effect from 1870 had been considered satisfactory, no doubt the Select Committee would readily have compromised upon that basis. The only reason why it was put in the simpler form was, that the principle might come before the Council in the widest possible form; as they understood from the Hon'ble Mr. Moore that it would be contested. Otherwise no one would have objected to alter in such a way as not to take away any rights which the previous law had not taken away."

The Motion was put and agreed to.

The Hon'ble MR. MOORE moved that the following clause be added to section 2 of the Bill:—

'Nothing herein contained shall deprive any person of any right of property or other private right except as hereinafter expressly provided.'

He said:—"I have not come here with any long-set speech on this subject. All I wish to do is to capture your votes, and the less I trouble you the more chance I shall have of succeeding."

[The Hon'ble SIR HENRY HARRISON interrupting, asked whether it was more convenient that the discussion should take place over the present amendment or over the next: he was willing to accept this amendment?]

The Motion was put and agreed to.

The Hon'ble Mr. MOORE also moved that, for section 85 of the Bill, the following be substituted:—

'85. In case any wharf, quay, stage, jetty, pier, erection or mooring may have been or hereafter shall be, made, erected, or fixed within or without high-water-mark without the limits of the port, and thereafter the limits for the time being of the port shall be extended so as to include the place on which such wharf, quay, stage, jetty, pier, erection or mooring shall have been made, erected, or fixed, it shall be lawful for the Commissioners, when the safety of navigation or the improvement, maintenance, or good government of the port so requires, to remove, fill up, or destroy such wharf, quay, stage, jetty, pier, erection or mooring:

Provided that when any such work has, under this section, been so dealt with, the Commissioners shall, when such work was made on behalf of the public for the convenience of public traffic, make or provide for the use of the public such sufficient wharves, quays, stages, jetties, piers, erections or moorings as the Local Government may direct, and shall, when such work was made by any private person for the convenience of private traffic—

(*a*) on land belonging to the Government, with the previous consent of the Local Government in writing, or of which the making, erecting, or fixing has been subsequently sanctioned by the Local Government in writing; or

(*b*) on land belonging to the private owner, whether acquired by grant from the Government, or by prescriptive right, or otherwise,

make compensation therefor to the owners thereof to such an amount as may be determined by agreement by and between the Commissioners and such owners, or by the Civil Court in which a suit may be brought to establish and enforce such right of compensation.'

He said:—"I presume, I may hope, you have all read the memorial of the Chamber of Commerce, because that memorial, coupled with the dissent I previously recorded, I put in, so to speak, as my case. I wish at the outset to state that every legal allusion, historical and otherwise, in that memorial was submitted, approved, and settled by Mr. Woodroffe, the Counsel consulted by the Chamber. I specially mention this, because I have heard it has been concluded that Mr. Woodroffe did not approve the arguments set out in the first two pages of the memorial, because in the opinions quoted in the annexures he did not specially allude to them. That is easy of explanation. The opinions merely replied to specific points put to him, which did not happen to include those arguments the drift of which, I think, the Council understands.

"Briefly it is this: I maintain that this Bill as drafted discards the principle existing in the governing Ports Bill of the Supreme Government that, certain private property cannot be included within the limits of a port, and that every sense of reason and justice demands that this Bill should be brought into conformity with that principle, that is to say, with the Bill of the Supreme Government. If it is not so, it gives rise to great anomalies, as it makes the tenure of property on foreshores ruled by the Port Act totally different to that ruled by the substantive law of the land; and as no limit is ascribed to the distance to which the port may be extended, no holder of such property is secure in the understanding of his liabilities and obligations, as at any time a stroke of the pen may entirely change them. The Port Law may with the port go up to Chinsurah or Hooghly, or down to Diamond Harbour, or anywhere, and surely the perpetuation of such a state of affairs is neither sound nor just legislation.

"The section which I move indicates the principle I fight for, as well the further essential and equally sound doctrine that, when private property and rights have to be acquired for the public good,—the power to acquire which, I do not contest, must under proper conditions exist—complete compensation must be given for what is taken away, and confiscation without compensation must under no kind of circumstances be legalised.

"That was the principle enunciated by the Supreme Government when it re-enacted their Ports Bill in 1875, and it was deliberately enunciated because the true interpretation of the Act of 1855 on this point had been misunderstood in the administration of the Bengal Act V of 1870, which is shown in the remark of Mr. Hobhouse at the time, that the literal construction of the section (*i.e.*, the section in the Act of 1855 to which all my remarks refer) could not have been intended (that is to say, the construction that a private wharf could be included within the limits of the port) taken in connection with the fact that on literal construction the Port Commissioners had under Act VII of 1870 acted in regard to a private wharf, the owners of which drew the attention of Mr. Hobhouse to the circumstance, with the result that he spoke as quoted and introduced the change named.

"Now that we are re-enacting our Act passed five years before this change in the Government of India Bill, it behoves us to follow the same lines, and correct our Bill as the Supreme Government corrected theirs which governs ours. Towards this result I ask for your votes for my motion; and have only further to point out that this Bill is to rule the Port Commissioners, who are the guardians of the trade of the port, which is represented by the traders whom I represent in this Council. There is no antagonism of thought on this point between traders and their guardians; and as the representative of the traders, I say we are strongly in favour of the principle that, private property and rights within or without the port must be respected, and when acquired for public good must be paid for; that we are the people who have to pay, and being willing and desirous of paying what is equitable and proper, we press that legislation which is for us should be on these lines.

"I cannot find one dissentient voice to what I urge outside the walls of this Council; and to the best of my belief, therefore, if this motion is lost, the only opponents to it connected with the port of Calcutta will be the majority which reject it, who will by such rejection, to the best of my belief, be denying that the administration of the port should in any way recognise that private property and rights exist."

The Hon'ble SIR HENRY HARRISON said :—"It will probably be most convenient if, simultaneously with the amendment moved by the Hon'ble Mr. Moore, I move the amendment which stands in my name, as it covers the same ground. On this point, I think, I labour under a certain disadvantage, because the Hon'ble Mr. Moore has not made any allusion to this amendment; he has not stated in what respects it falls short of what he thinks right and proper. This I find a great difficulty, because the clause which I propose has been carefully worded to meet the very principles for which the hon'ble member contends."

The HON'BLE MR. MOORE continued :—"I was not aware I could allude to another amendment in discussing this. My main objections are in the third

opinion of Mr. Woodroffe, who points out the thick veil of ambiguity in which the context of the word 'lawfully' is concealed, and what it here means and implies. That in the sanction to be given by the Local Government to destruction of a jetty, it is not laid down that the party interested is to receive previous notice of the intention of the Port Commissioners, and such sanction might be applied for and given as a matter of routine by an Under-Secretary without the person interested knowing anything of it, until the notification dooming his property was pasted upon it. That my section more clearly defines the exact circumstances under which compensation is due and must be paid, and it sets out the principles which justifies private property being touched, namely, when necessary for the safety of navigation or good government of the port; whereas under the Hon'ble Sir Henry Harrison's section, power of seizure is given without naming any reason for it at all."

The Hon'ble SIR HENRY HARRISON then moved by way of amendment that, for section 85 of the Bill, the following be substituted:—

'In case any wharf, quay, stage, jetty, pier, erection or mooring may have been, or shall hereafter be, made, erected, or fixed below high-water-mark without the limits for the time being of the port, and thereafter the limits of the port shall be extended so as to include the place on which such wharf, quay, stage, jetty, pier, erection or mooring shall have been made, erected, or fixed, it shall be lawful for the Commissioners, with the sanction of the Local Government in writing, to remove, fill up, or destroy such wharf, quay, stage, jetty, pier, erection or mooring:

Provided that any person who may have lawfully made, erected, or fixed such wharf, quay, stage, jetty, pier, erection or mooring, or who may have acquired a prescriptive right thereto by possession of sixty years or upwards, his representatives or assigns, shall be entitled to institute a civil suit for the award of compensation to him for the injury caused by the removal, filling up or destruction hereinbefore mentioned.'

He said:—"I think I interpret the general feeling of the Council when I say that if the objections to this clause are what has been stated, they are not of a very formidable character, and there is no great gulf between the Hon'ble Mr. Moore and myself. The only reason why no such clause as that to which the hon'ble member refers has been inserted is, because it is not usual to do so; because it is obviously right and proper that the Lieutenant-Governor should consult the persons to be affected, that being the usual way for the management of business. If that is the only objection raised, there will be nothing to prevent the insertion of words which will substantially secure that the interest to be affected has warning of the intention of the Port Commissioners before any order is passed." [The PRESIDENT:—"That could be done by rules."] "So far that objection can be easily removed.

"The other objection which has been taken is, that the words used are obscure. The question is, whether the obscurity is to be found in the framing of the amendment or in the subject-matter of it. If the matter itself is obscure, then legislation regarding it must, to a certain extent, correspond to that obscurity. These words were very carefully selected because it was supposed that they honestly conceded the whole principle which the Hon'ble Mr. Moore has enunciated, and which I may say generally is accepted by this Council as much as by those outside, namely, that if the Port Commissioners have to acquire any private rights they must pay for those rights. The idea of confiscation is entirely repugnant to every member of the Council, and none of us repudiate the idea less strongly than the Hon'ble Mr. Moore himself.

"The whole difficulty lies in the question, whether or not any rights do exist? It is perfectly true that the India Act of 1875 was framed with scrupulous care to prevent the possibility of its being interpreted against private rights. At the same time, I am sure, the hon'ble member will remember that Mr. Hobhouse, on being pressed to go further, not only to protect private rights but to bestow rights, said that the section would not go so far. If the India Council were asked to arbitrate in this matter, it was very probable their decision would not be in the direction wished; but they were careful to maintain any rights which did exist, and that is precisely what my amendment is intended to do.

"Now in a matter of this kind there ought not to be any strong party feeling, because it is, if I may say so, an interest legislating for itself. In many

cases where the Government or the Legislature are deciding matters, unfortunately they are obliged to recognise the existence of rival interests. The Government, whilst considering the interests of the whole community and representing it, occupies the position of an arbitrator, and is obliged to take cognizance of the fact that there are rival interests, and that it must endeavour to hold the balance evenly between them. But fortunately in this instance there are no rival interests. The Government is merely legislating on behalf of the Port Trust, and this Trust may be fairly described as a body in which the trade and commerce of Calcutta is able to organise itself for the purpose of its own benefit, for the purpose of facilitating and improving the trade of the port.

"On the other hand, the objections are raised on behalf of individual members of the community engaged in the trade of the port. So that really we here enjoy the special advantage that we are not in any way deciding between rival interests, or in any way defending one interest against another; but simply we are considering within the circle of one and the same interest how much ought to be given to the interests of the trade as a whole, and how much is fairly due to the interests of its individual members. And on this matter I am bound to say that the remark made by the Hon'ble Mr. Moore, that it is the wish of those interested in the trade that the greatest possible liberality should be shown to individual interests, ought to commend itself very much to our consideration.

"Still we are not legislating for the hour, and we must not, therefore, attach too much weight to what may be merely the sentiment of the hour. We must try and frame the law in accordance with sound and tenable principles, and must bear in mind that as the Port Trust are a body which only levies what it needs for its expenditure, and that whatever compensation is to be paid must come from the trade of the port as a whole, and whatever is saved is similarly saved to the trade of the port. Therefore I hope it will be fully realised by every member of the Council that, this case is not a very invidious one, and can in no case subject us to any invidious criticism of sacrificing the interests of one class to those of another. What we are considering is, how far the trade and commerce of the Port of Calcutta can be legitimately charged for the compensation to be paid to individual members whose interests come into conflict with those of their own body. Now putting it in that way, I must say it seems to me that the answer ought to be very simple; that every private right ought to be scrupulously respected.

"But is not it equally clear that to go beyond this is wrong and bad legislation? Supposing there is no right; supposing somebody is wrongly holding adversely to the interests of the community at large; is it not equally clear that the interests of persons with no rights ought not to be allowed to block the interests of the community? Is it not perfectly clear that the interests of the community are paramount? If you admit these two principles—and I can hardly conceive any one contending that they are not proper principles—then we are justified in passing the present amendment. We carefully preserve existing rights. Power must be given to the Port Commissioners to remove any jetty or wharf, or other structure which interferes with the working of the port; but then comes the question how far compensation ought to be given. The amendment says: 'Provided that any person who may have lawfully made, erected, or fixed such wharf, &c., or who may have acquired a prescriptive right thereto by possession of sixty years or upwards, his representatives or assigns, shall be entitled to institute a civil suit for the award of compensation.' We are told that this is ambiguous, but the ambiguity is in the character of the right, not in the wording of the section; and this is an ambiguity from which we cannot escape. We say that if a person has lawfully put up a particular jetty, then he shall be entitled to sue for compensation. Surely, this is as much as we can be fairly expected to say. If it has been lawfully put up, a suit for compensation will lie; and if, though not lawfully put up, a prescriptive right can be shown, in that case also a suit can lie for compensation. Therefore do we not here do everything that can be asked, unless we are asked to give more than exists? We say that, private rights are to have their full sixteen annas in the rupee: we only object to giving them twenty-four annas.

"The objection which fairly lies against the Hon'ble Mr Moore's amendment is, that it makes the Council the judge beforehand of a matter which should be left to the judgment of a Court of Law, namely, that compensation shall be given; that is to say, that though the Court may find that there is no case for compensation, yet we are asked to decide beforehand that compensation shall be given

"It is well known that Courts of Law are on the whole sympathetic with the rights of individuals, and yet we are asked to legislate that in all cases compensation is to be given; that the Court is not to decide upon the question whether any compensation ought to be given, but only what the amount of compensation should be. I appeal to you to say whether, in reality, it is not *we* who have principle on our side; whether it is not we who are raising our protest against confiscation, *i.e.*, the confiscation of the rights of the public? If the principle be what the Hon'ble Mr. Moore recommends, if it is only a question of this principle, I think he would have every one of us on his side; but his own amendment does not carry out the principle. It seeks to add something to private rights. The amendment framed here has been scrupulously worded with the precise object of giving effect to what the Hon'ble Mr. Moore asks, namely, that there should be no confiscation of rights which exist; but we say also that there should be no addition of rights which do not exist.

"I may even say that my amendment goes further. Although by a law of twenty years' standing greater powers are given, namely, that the law says that no compensation shall be given, we limit it to what we think right and proper, and just; we amend the law and say, provided the structure is lawfully erected, or has acquired a prescriptive right, compensation is to be given.

"If no further fault can be found with the amendment than what has already been alleged, I ask the Council to say in what respect it falls short of what is right and proper? Does it not concede everything which the earliest opinion, and even the second opinion, of Mr. Woodroffe asked for? It concedes the case in which jetties have been lawfully put up, and the removal of which causes injury, and in such cases it specially prescribes that compensation may be claimed; and it leaves to the Courts to determine whether, according to the law of the land, a case for compensation has been established or not.

"Therefore, I hope, on all these grounds the Council will see its way to accept my amendment. I say it does not differ much from the Hon'ble Mr. Moore's amendment, but where it does differ, it is precisely upon those points on which the Council ought to insist, namely, that it refuses to give further rights—rights which do not exist; it refuses to say that a person who has not a right to compensation shall have right to get it. With those remarks I beg to recommend my amendment to the Council."

The Hon'ble MR. PEACOCK said:—"I desire to say a few words in support of the Hon'ble Mr. Moore's amendment; and I support the amendment chiefly on the ground that, by the legislation of the Government of India, an example has been set which, I think, might well be accepted by this Council. In the Acts of 1875 and 1889 largely, and certainly in the Act of 1855 to a smaller extent, not only was there no infringement of private rights—perhaps I ought not to say infringement of rights, as that would be going too far—but certainly any interference with private property has been carefully avoided.

"In section 57 of Act V (B.C.) of 1870 for the first time this principle of interference was introduced, in so far that it gave to the Port Commissioners certain rights which, it seems to me, might be carried too far in certain cases. But in section 85 as proposed in the Bill as amended by the Select Committee the same thing is re-enacted, and to a greater extent, in so far that retrospective effect is given to this power. In this section, however, there is a proviso added, that it shall be lawful for the Local Government to direct the payment of such compensation as under the circumstances may seem fair and equitable.

"But in the amended section proposed by the Hon'ble Sir Henry Harrison this proviso is entirely withdrawn, and he has explained the reasons why it was withdrawn. I am bound to say that, speaking for myself, that does not appear

to be altogether satisfactory. The Port Commissioners have now the power of doing anything in the way of removing jetties or wharves, for which they can obtain the sanction of the Lieutenant-Governor. Now, I venture to say that the Port Commissioners will never have any difficulty in putting forward so plausible an *ex parte* case that it will be almost impossible for the Lieutenant-Governor to refuse sanction At all events, I venture to predict that sanction will be withheld in very few cases.

"Of course I know the argument which has been and which will be used against me that these encroachers on the foreshore are persons without any semblance of right, and are consequently not entitled to any consideration whatever. I am bound to admit that in this argument there is very great force, and if it were so that the limits of the port were never likely to be largely extended, I should be with the Hon'ble Sir Henry Harrison; but when we have to consider the probability, or certainly the possibility, of the port limits being extended at any moment to almost any extent in either direction, I think the case is different.

"Take the case of a man who at Titaghur erects a jetty for the landing of his goods. This may have been done even before the passing of Act V (B.C.) of 1870; he knows that he is well outside the limits of the port; he thinks, as far as he is capable of thinking on the subject, as in all probability his ideas of the rights of the Government to the foreshore are not very clear, that what he has done is absolutely legitimate; it interferes with no traffic of the river, neither can it be said to be an obstruction. But because by a stroke of the pen, as the Hon'ble Mr. Moore said, the limits of the port are extended so as to include this erection of his, it may be swept away at a moment's notice without any compensation.

"I cannot help thinking in the case, more particularly where the erection is a long way out of the port limits, that a provision such as this is likely to operate harshly. I know that I may also be met by the statement that all this opposition to section 85 is unnecessary and uncalled for; because it may be assumed that because the Port Commissioners have never done anything high-handed or inequitable, they never will do so. I am sorry I cannot accept this proposition. It may be taken for granted that the Port Commissioners will do nothing which they believe to be unfair and inequitable in any way; but at the same time, when a project is under consideration, it is astonishing how easily the facts are made to fit with what is desired; how private rights are lost sight of, more particularly where the infringement of those private rights costs nothing. For these reasons I support the amendment of the Hon'ble Mr. Moore."

The Hon'ble MR. NOLAN said:—"The motion which stands in my name on the list of business, to the effect that the existing law, as embodied in section 57, Act V (B.C.) of 1870, should be retained without alteration, was framed when the only alternative proposal before the Council was one which many considered defective, and which has since been discreetly withdrawn. The amendment now put forward by the hon'ble member in charge of the Bill seems to have been drawn with the intention of meeting, so far as is thought practicable, the wishes of the hon'ble members who represent the commercial interest, and that appears to me to be the proper course to adopt. I, therefore, support the Hon'ble Sir Henry Harrison. The law in its present form was passed at the instance of the commercial members who sat in Council in 1870, and may very properly be altered on the motion of their successors, to whose opinion we all attach the greatest weight. Indeed I would be inclined to go further, and to let the Hon'ble Mr. Moore and those who act with him regulate the matter precisely as they propose, if the effect of our decision could be confined to the area with which they desire to deal. The section itself is of no great importance; it has been in existence for twenty years without ever being put in force, and, as the procedure it prescribes is less convenient than that of the Land Acquisition Act, it might exist unused for another century. It is the Mrs. Harris of our legislation, much talked of, but never seen. I wish we could let the Hon'ble Mr. Moore deal with it just as he wills, but unfortunately his motion is so worded as to touch other interests not contemplated by him, and to be most inconvenient as a precedent.

"In the first place, his amendment provides that private wharves and so forth shall be interfered with only 'when the safety of navigation, or the improvement, maintenance, or good government of the port, so requires.' To this there is no objection whatever; but the Hon'ble Mr. Moore fails to indicate any authority to decide whether such requirements exist or not, and thus silently remands the issue to the ordinary tribunals. This is a new principle in Indian legislation; all previous laws for the acquisition of land for public purposes having made the Local Government sole judge as to whether the land is really required or not, and I fail to see how any law can be worked without some such provision. The alternative is to leave the question to the Courts of Law, calling on the Judges to pronounce what is or is not requisite for navigation and good government, and thus creating a new source of litigation. This, however, is a small matter, to which if it stood alone I would not refer.

"But in the second place, while the Hon'ble Sir Henry Harrison provides for compensation in every case where a wharf has been lawfully erected, the Hon'ble Mr. Moore goes further, and would liberally give compensation whether the erection was lawful or not. Now this might be generous were we dealing with our own money; but it seems scarcely fair when the general tax-payer has to pay for all. And regarded in the light of a precedent, I cannot but consider the studied omission of the word *lawfully* as of the worst example. In ports, such as Calcutta, the public right of way on our great rivers is guarded by stringent laws and an elaborate organisation; but in the interior, the District Magistrates are left to defend our communications as best they can against the attacks of a hundred riparian proprietors, each very naturally caring less for the general commerce of the country than for his own private pier, or fishing stockade, or landing charges. The struggle is always going on with varying success. I speak of it from experience, having had to try many prosecutions of the kind myself as a Magistrate. Now what will be the effect on such contentions of the omission of this word *lawfully?* Obviously to indicate to those concerned that all constructions by riparian owners are legal in the opinion of this Council. Such a maxim, published without qualification, would have a very mischievous tendency by encouraging encroachments of every kind on the most important highways of our Bengal commerce; and I must maintain that the maxim itself is altogether incorrect, as a person may be the owner of land between high and low-water-mark on a tidal river, and yet have no right to make thereon any permanent erection to the injury of navigation, or without the sanction of some officer appointed in that behalf. Take, for instance, the case of a proprietor within the present bounds of the port, who has a title to the foreshore, and examine what right we have left him to make future erections, and what compensation we provide for him in case such erections are destroyed This matter is settled by the section of the present Act preceding that now under discussion, a provision which has never been opposed, and which is re-enacted without objection in the Bill before us. It runs as follows:—

'It shall not be lawful for any person or persons, save the Commissioners, to make erect, or fix below high-water-mark within the port any wharf, quay, stage, jetty, pier, erection or mooring without the consent in writing of the Lieutenant-Governor first had and obtained. Any matter or thing which may be so erected or fixed may be removed by the Commissioners, and the persons who shall have so made, erected or fixed any such matter or thing shall be liable on conviction to a fine which may extend to Rs. 1,000, and to a further fine which may extend to Rs 100 for every day during which such matter or thing shall have been permitted to remain so made. erected or fixed after notice to remove the same shall have been given.'

"In Calcutta, it will be seen, instead of compensation, the proprietor who builds a wharf without authority has to pay a fine of a thousand rupees to begin with, and has the prospect of subsequent fines as refreshers. Now the original proprietary rights of zemindars within the port were precisely the same as those of the zemindars whose lands lie on the other side of that fleeting boundary, from which I draw the inference that no one approving section 56 of Act V (B.C.) of 1870, and the corresponding clause in our Bill, can maintain that all proprietors as such have an indefeasible right to build wharves of any description on the foreshore they possess by the river Hooghly. It is only on the supposition that they have no such right that the law, as the Hon'ble Mr. Moore agrees to re-enact it, can be defended.

"In explanation of this limitation on the powers of zemindars, even when the land has been settled with them, I may repeat the statement contained in a written opinion of the Hon'ble Sir Charles Paul's given in 1873, and subsequently confirmed by Mr. Woodroffe, that the foreshore originally belonged to the Crown. The Crown can grant rights over it, and has done so by Regulation XI of 1825, which gives to all riparian proprietors a contingent and reversionary interest in river beds, inasmuch as the land will become an accretion to their estates when the waters change their course. Moreover, the banks and even the beds of rivers have been settled with zemindars in many cases, thereby conveying to them a right to the property for proper purposes. But the interest thus conveyed is subject to the dominant right of the public to use the river up to its utmost limit, and the adjoining tow-path, if such there be, for navigation, and inferentially to the right of the legislature to regulate that use, prohibiting whatever may interfere with its due exercise. How this was provided for at the time of settlement I may indicate by referring to the proceedings of Mr. Crow, Deputy Collector, who settled fifty-five villages near Calcutta in 1847. I will read an extract from his final report:—

'These lands therefore are in every sense of the word in their *bonâ fide* possession down to the low-water-mark in the dry season, and these landholders must accordingly be made to pay the Government revenue assessable on these lands

'The third point regarding these banks is the right to track boats along the riverside. Of this privilege I think the boatmen should never be deprived, notwithstanding any settlement that might be made for the lands over which they are obliged to pass with ropes, or to which they have to fasten their vessels, not to mention the loss of life and property which might attend. Any interference on the part of the landholders with the boatmen at particular times—the obstructions to the navigation of the river (situated as the Hooghly is on the side of the capital of our Eastern Empire) that would follow from any prohibition which our inconsiderate landholders might think fit to put on the privilege of tracking and fastening boats—would be so serious an injury to the interests of the public that the very thought of allowing these people to interfere with the said privileges could not for a moment be entertained Yet want of due attention to these particulars has been the cause of serious and dangerous obstruction to the navigation along the bank in this and other localities near the city. Ghâts with high sides and pucca bastions of various kinds have been built up in many places right across the tracking paths, and several kinds of other obstructions caused without the least regard to the comfort and safety of those who are obliged to navigate along the banks.

'With due regard to these circumstances, which I consider of the last importance, I have, in settling these alluvial lands with the owners of the kurari properties, distinctly explained to them that the settlement now made with them will not in any manner entitle them to deprive the boatmen, who are obliged to make use of the tracts settled with them, of any of the least privileges which they have hitherto enjoyed; nor, indeed, will they be permitted hereafter to raise new obstructions along these tracks without the sanction of the authorities entrusted with the conservative care of these public thoroughfares.'

"This is the settlement to which the riparian proprietors referred when on former occasions they impugned the action of the Port Commissioners, and may be taken as indicating the title by which the land affected by this section is held.

"I willingly acknowledge that most of the works constructed on the river-bank are useful or ornamental structures, which do not interfere with navigation, and have therefore been lawfully made. For these, compensation would be payable under the Hon'ble Sir Henry Harrison's amendment. But some are said to be obstructions to which the District Magistrates might turn their attention with advantage. These are unlawful, and if they are removed, why should we give compensation for the nuisance? If the commercial members, and those with whom they act, think otherwise, they will doubtless be able to give effect to their views, commanding, as they do, the ascendant influence on the Port Commissioners. In the end, probably, compensation will be paid, however we word the section. I doubt if anyone will gain or lose a rupee by our action to-day. But I object to moulding our laws on the assumption of a principle which is not correct, and which, if generally applied, would be most injurious to commerce—the assumption, namely, that all constructions on the foreshore belonging to private owners are lawful.

"Before sitting down I would say a word in defence of the existing law, which we will naturally re-enact should neither of the amendments before us be adopted. It has been represented as a measure for confiscating property without compensation, but nothing could be more remote than this from its

character. Its real object is to enable those who constructed suitable wharves and so forth after its enactment to secure themselves by obtaining the sanction of Government, with full assurance of compensation in the event of an extension of the port; also to deter proprietors from building obstructions which could not be sanctioned. The restriction which it implies as to riparian rights near the port is much less than that imposed within the port by our present Bill. Applications under the section are constantly made and are dealt with in a very liberal spirit. These applications and the petitions made to Government in 1874 show that the law is much better known to those concerned, than the dissenting members of the Select Committee believed. If any one has through ignorance failed to apply hitherto, he can do so now that attention is drawn to the subject. As to the complaints that the section has been worked harshly, they rest on a misapprehension, for, otherwise than as a procedure for voluntary registration, it has never been worked at all. The disputes have been under the Land Acquisition Act, and with regard to another section of this Act, never as to anything done under the authority of section 57. While willing to accept any modification which does not give a sanction to nuisances, I cannot help thinking that this part of the law might very well have been let alone. It has never been worked to the injury of any man, and has been useful, in its way, by giving an assured title to the owners of many useful works."

The Hon'ble Dr. Rash Behary Ghose said:—"I regret that I am unable to accept the Hon'ble Mr. Moore's amendment. Apart from the criticisms which have been made by the previous speakers, it seems to me that the amendment, as it stands, is open to some very serious objections. It says, amongst other things, that it shall be lawful for the Commissioners, when the safety of navigation or the improvement, maintenance or good government of the port so requires, to remove, fill up, or destroy such wharf, quay, &c., and it then goes on to say that, if the wharf, &c., is destroyed, the owner shall be entitled to compensation.

"But I take it to be undoubted law, quite apart from any statutory provision on the subject, that when any such structure, whether erected by the Government or by any private individual, interferes with the safety of navigation, it becomes a public nuisance, and it is open to any subject of the Crown to abate the nuisance: and I do not see any reason why the Port Commissioners should be the only persons—in this country—who are to be incompetent to exercise a privilege possessed by all other subjects of Her Majesty. It is elementary to say that you do not give compensation for removing a public nuisance, and that it is in the power of any person to abate it. A public nuisance is a public offence, and it would be absurd to give compensation to a public offender.

"Then, again, I cannot congratulate the gentleman who drafted this amendment on his skill in drafting. We have heard something said about the English of the Bengal Council. But the English of our opponents is not altogether unexceptionable. Now this amendment, clause (*b*), I find speaks of 'land belonging to the private owner, whether acquired by grant from the Government or by prescriptive right;' that is to say, land acquired by prescriptive right. But, as every lawyer knows, you do not acquire land by prescriptive right, you may acquire it by prescription; but to speak of land being acquired by prescriptive right is language not familiar to lawyers. This, however, is a comparatively trifling objection.

"But there are graver objections to the proposed amendment. Compensation is claimed by the Hon'ble Mr. Moore whether the structure was lawfully or unlawfully erected. I am not now dealing with cases in which what was originally unlawful might, in the course of time, ripen into something not unlawful. The structure must be either lawful or unlawful. If it is lawful, then the amendment proposed by the Hon'ble Sir Henry Harrison would entitle the injured person to compensation. If it was an unlawful work, I do not think anybody, however liberal his views may be, however strong his notions may be with regard to what is called the sanctity of private property, would propose to give compensation for something which was unlawful. I find that the Hon'ble Mr. Moore, acting upon the opinion of the eminent Counsel consulted by the Chamber of Commerce, objects to the use of the word 'lawful' in the Hon'ble Sir Henry Harrison's amendment. If that is the only objection which the ingenuity of Counsel can make to the amendment, I do not think we have much to fear from hostile criticism.

"Confiscation of private property is no doubt a very good cry, and it is a cry which it is very easy to raise; but is there any foundation, having regard to the amendment proposed by the Hon'ble Sir Henry Harrison, for saying that we are going to confiscate private rights? We are only going, under this Act, to authorise the Port Commissioners to remove unlawful structures; but, certainly, we are not going to confiscate anything which was lawful either when it was done or which, by reason of long enjoyment, has become lawful.

"I do not propose to follow the Hon'ble Mr. Nolan through the discussion which he has raised on the vexed question, as to the rights of the Crown or of the Government in this country to the foreshore of tidal or navigable rivers. The question is, no doubt, surrounded with a great deal of difficulty; and as the amendment proposed by the Hon'ble Sir Henry Harrison renders the discussion wholly unnecessary, I do not see the good of engaging in what, under the circumstances, would be a purely academic discussion.

"We render unto Her Majesty's Courts of justice the things which belong to them: and if I understood the Hon'ble Mr. Moore rightly, when this matter was before the Select Committee, the only grievance he felt was that we, the Members of the Bengal Legislative Council, from our imperfect appreciation of the law on the subject, took upon ourselves to determine the particular cases in which alone compensation was to be allowed; instead of leaving the determination of those cases to those who are best able to deal with them.

"Now, the Hon'ble Sir Henry Harrison's amendment proposes to do what we were told we ought to do; whilst the amendment put forward by the Hon'ble Mr. Moore would virtually exclude, as the Hon'ble Sir Henry Harrison has already pointed out, from determination by the Courts of justice of those questions which we were told only two short months ago were eminently proper to be dealt with by Her Majesty's Judges."

The Hon'ble SIR ALFRED CROFT said:—"It is with great diffidence that I rise, and I do so merely to ask what is the interpretation of the last line of the Hon'ble Mr. Moore's amendment. It has been said by the Hon'ble Sir Henry Harrison, and confirmed by the Hon'ble Dr. Rash Behary Ghose, that if the question is referred to the Courts of Law when the Port Commissioners and the private owner cannot come to an agreement, the Courts are bound to give compensation, although the structure has not been lawfully erected.

"It appears to me that the last line of the Hon'ble Mr. Moore's amendment bears no such construction. It does not say 'or by the Civil Court in which a suit may be brought to determine the amount of such compensation,' but it says 'to establish and enforce such right of compensation.' What is there in the amendment to prevent the Court from declaring that there is no such right? And if no such right can be shown, that is, if the structure has not been lawfully erected, the compensation awarded will be *nil*.

"But I would now take the opportunity of saying that each of the three amendments on the paper seems to me, in the light of the discussion that has preceded, to be open to objection; and I should be very glad to know how these objections are met. I take first the Hon'ble Mr. Nolan's amendment. The objection to this seems to lie in the assumption which it makes that every wharf or jetty built below high-water-mark must have been unlawfully erected, unless the written consent of the Lieutenant-Governor of Bengal has been obtained. But I understand from what has been said by previous speakers that this is in some instances a doubtful matter, and if so, it cannot be right for this Council to declare that in no such case shall compensation be given, for that is a point which in such cases can only be decided by a Court of Law.

"Then the Hon'ble Sir Henry Harrison's amendment leaves out two points for which provision is made in the Hon'ble Mr. Moore's amendment. The first point is, that it does not state the grounds upon which it shall be lawful for the Commissioners to remove any such structure, a point for which the Hon'ble Mr. Moore's amendment does provide; because it says that the structure shall only be removed if the 'safety of navigation, or the improvement, maintenance or good government of the port so requires.' This point has been referred to by the Hon'ble Mr. Nolan, who objects to the proviso on the ground that it does not state who is to decide. It seems to me desirable that such a proviso should be adopted, qualified by some such words as 'when in the opinion of the Lieutenant-Governor the safety of navigation, &c., so requires.'

"The Hon'ble Mr. Nolan and other hon'ble members have conclusively shown that it would not be right to omit the word 'lawfully' before 'made' in the line preceding proviso (*a*) in the Hon'ble Mr. Moore's amendment, because it appears that works may be raised on private lands which still are not 'lawful' because they interfere with public rights. If, therefore, no compensation ought to be given to private owners who erect structures which interfere with public rights, then we cannot accept an amendment which gives them a right to bring a suit for compensation.

"The Hon'ble Mr. Moore's amendment further provides for cases in which wharves and piers have been erected on behalf of the public. It provides that in case such works are removed or destroyed, corresponding works giving equal facilities shall be provided by the Commissioners. But the Hon'ble Sir Henry Harrison's amendment leaves out this proviso."

The Hon'ble SIR CHARLES PAUL said:—"That is provided for by the further section (85A) to be moved by the Hon'ble Sir Henry Harrison."

The Hon'ble SIR ALFRED CROFT said:—"In that case my remark does not apply."

The Hon'ble MR. ALLEN said:—"It appears to me that Act V (B.C.) of 1870 has hardly met with fair treatment in this Council up to the present. We may assume that the Bengal Council which passed Act V of 1870 was not less competent or less capable than the Council which meets here to-day; and we may fairly presume that in passing what has been said to be a very arbitrary measure, with little regard to the rights of private individuals, the members of that Council had just as much regard for the rights of private individuals as any one here present. Now if the law as a whole is examined, it will be found that not the smallest wrong was perpetrated by the section of that Act now under consideration. The principle upon which the Act of 1870 was based was, that the responsibility for taking care of the port of Calcutta, for levying tolls on trade and for raising money to construct works of utility, by which the facilities for shipping and unshipping goods would be increased, should not rest upon private individuals; but that a public body under the control of the Government should be incorporated, in which the management would vest: looking not for dividends to be divided among shareholders, or profits to be carried off by transitory merchants, but that this public body should borrow money and simply provide for paying interest thereon, not charging the shipping anything more than was necessary for that purpose.

"The portion of the river Hughli upon which works for the discharge of cargo could be constructed is limited, and therefore such a provision was very reasonable: it constituted a monopoly which must prevail against all private rights in the port. As soon as this public body had constructed jetties and other necessary works, it was invested with the power of forbidding ships to go to any private jetty; they must come to the public jetties and pay the tolls levied at such jetties. At the time when that provision was framed, the Peninsular and Oriental Steam Navigation Company's jetty was the only jetty which had any existence, and therefore in forbidding the erection of jetties the framers of the Act of 1870 were touching no existing interests. They were merely laying down rules for the future, and warning persons who had private property on the banks of the river that they must use their private rights, subject to the rights of the Port Commissioners; and that they must not erect private jetties to compete with those erected by the Port Commissioners.

"Having made this provision with regard to jetties within the port, they further provided that in the case of jetties constructed in any other part of the river above or below the limits of the port, without the sanction of the Lieutenant Governor, afterwards, should the port be extended so as to include that part of the river, such jetties should have no advantage over jetties which might be so constructed within the former limits of the port. They touched no jetty then in existence, but they warned private persons that they should not put up such jetties, without sanction from the Lieutenant-Governor, below high-water mark. They touched nothing above high-water-mark; but they clearly asserted that the property in the foreshore below high-water-mark

was in the Government And whatever assumed or supposed right the zemindars may assert, there is the decision of the Privy Council that the property in the bed of the river Hughli below high-water mark, belongs to the Government.

'When we in the Select Committee had to consider that section, we found as a fact that the provision in Act V of 1870 had not been used; but instead of allowing the law to remain as before, we made a suggestion that, when any private jetty below high-water-mark is removed, the Lieutenant-Governor may order the Commissioners to make compensation. For my own part, I consider that in doing that we gave the fairest conclusion to the whole question which it was possible to give. As a shareholder in several of these mills, I myself should infinitely prefer the mercy of the Lieutenant-Governor, to taking my stand on the supposed legal rights that the Chamber of Commerce pretend to maintain

"Counsel's opinion has been taken in this matter. Mr. Woodroffe's name, no doubt, stands for a good deal; but, I must say that, as far as I have experience of Counsel's opinion, consulting Counsel is very much what consulting the Delphic oracle used to be. The consultor invariably gets an opinion which confirms him in the course which he had already determined upon. At the same time Counsel takes good care, while confirming his client in his opinion, whatever the result, that his own professional reputation shall in no wise suffer. The manner in which this is done is ingenious. Mr. Woodroffe's name is sufficient guarantee that any naked statement of law by him shall not be open to objection. His professional reputation would be terribly affected if he laid down a proposition of law which was incorrect; therefore, as far as the mere statement of the law goes, both the Advocate-General and I have no objection to what is laid down by Mr. Woodroffe But the Chamber of Commerce imagine his opinion is entirely on their side. How is this result achieved? It is in the manipulation of the facts to which the law is to be applied. There the sympathetic effect comes in so that the client's feelings are flattered, and he feels himself a most ill-used individual. Let us see how Mr. Woodroffe does this. In paragraph 2 at the top of page 8, Mr. Woodroffe says:—

'Paragraph 6 of the Hon'ble Mr. Moore's minute of dissent gives instances in which grants of the fore-shores of such rivers have been made to private individuals, or in which individual subjects have, by prescription, acquired rights in or over such foreshores in derogation of the rights of the public.'

"Well, Sir, I challenge a reference to that paragraph of the Hon'ble Mr. Moore's dissent. There I find no such instances given, but I find a very modest statement by the Hon'ble Mr. Moore of the possibility that such a case may exist The actual instance to which the Hon'ble Mr. Moore refers, as I have learned the facts from him and the Advocate-General, is this: A certain Deputy Collector, when out at settlement work, found some logs of wood lying on the bank below high-water-mark, and thereupon made an extra assessment on the riparian owner in respect of the use he was making of the foreshore. Does this, as far as we know, unauthorized zeal of a Deputy Collector amount to a grant by the Crown or Government of the foreshore of the river? Under the colonnade of the Great Eastern Hotel here you may see a number of hobby-horses, boxes and other articles on the foot-path; suppose the municipal assessor, when next valuing the Great Eastern Hotel, clapped on an extra Rs. 5 or Rs. 6 on account of the benefit thus enjoyed; is that to be deemed a grant to the Hotel of so much of the foot-path? Mr. Woodroffe apparently thinks it is.

"The second instance noticed by the Hon'ble Mr. Moore is this: A certain riparian owner acquired the land from a zemindar who professed also to convey the foreshore, and before doing so submitted the title to an eminent firm of solicitors, and this the Hon'ble Mr. Moore says is *primâ facie* evidence of title to the foreshore. Did he consult Mr. Woodroffe on that point? Would Mr. Woodroffe consider that the mere passing of the title through a solicitor's office was evidence of anything? Probably, if Mr. Woodroffe had been consulted he would have told him that three-fourths of the litigation which arises is due to the blunders of eminent firms of solicitors. The fact that an eminent firm of solicitors passed a title, to my mind, goes a very small way. A flimsy title backed by money is, for practical purposes, no bad thing;

and sometimes foundation enough on which to issue a prospectus and start a company. The eagerness to float companies has often been a zeal which has outrun discretion. Even if the legal point as to the foreshore between high-water and low-water is conceded to mill-owners, I believe it will be found they have transgressed in putting up jetties much below low-water-mark.

"In the second opinion of Mr. Woodroffe, the manipulation of facts is carried to a greater extent. The whole of the last paragraph of the second opinion consists in the quiet assumption of a state of things, the exact opposite of which we say is the true state. But to meet this the Hon'ble Sir Henry Harrison has introduced an amendment, by which every jetty lawfully erected is secure of compensation. What has Mr. Woodroffe to say to this? The first paragraph of his third opinion declares that, this amendment offers little security to existing jetties. This shows how from the first he had a strong suspicion that on the law of the case these gentlemen have not a leg to stand upon. No additional security for existing jetties, when every lawful jetty is to have compensation! If this is not telling them that they have no stronger case now to go to court with than they had before, then I am incapable of interpreting language.

"But the Hon'ble Mr. Moore has brought in the Government of India against us, as, in its proceedings of 1875, overruling and crushing up our Act of 1870. I very much regret the speech made by Mr. Hobhouse in 1875, as I think with all submission, that his remarks as to the intention of the Legislature in 1855 were made simply under a misapprehension, as to the bearing of the section in that Act. I see great objections to assuming that the Council in years gone by was less competent or less able than the Council of 1875; and I have a shrewd suspicion that the Council of the Government of India in 1855 was as sensible and as careful of private rights, as the Council of 1875. The only change made, however, by the Act of 1875 was to introduce the saving clause about private rights into the earlier portion of the section defining the limits to which the port might be extended by the Local Government. But the Hon'ble Mr. Moore alleges that this restriction has a sort of coercive authority over us sitting in this Legislative Council. The Act of the Government of India of 1875 does not touch the Act of this Council The section is purely a direction for the Executive Government. The Executive Government it is that has to extend the limits of the port; but when so extended, our Act of 1870, would come into full force throughout the whole area.

"The two Acts are of equal authority; the one legislature is equally sovereign as the other in authority. The Government of India, so far from having any intention to touch our Act of 1870, has shown its marked approval of it in the best way; for in 1879, in passing a Ports Act for Rangoon, the Government of India actually re-enacted section 57 of Act V (B.C.) of 1870:—

'In case any wharf, dock, quay, stage, jetty, pier, erection or mooring is, after the date on which this Act comes into force, without the consent in writing of the Local Government, made, erected or fixed below high-water mark without the limits for the time being of the port, and thereafter the limits of the port are extended so as to include the place in which such wharf, dock, quay, stage, jetty, pier, erection or mooring has been made, erected, or fixed, the Commissioners may remove, fill up, or destroy such wharf, dock, quay, stage, jetty, pier, erection or mooring, without making any compensation therefor.'

"Would it be possible to have more complete evidence of thorough approval of our legislation than to find the Government of India in its legislative capacity, with all the talent available in its Legislative Council, instead of enacting a new section, bodily transferring our section into their Act?

"As to the amendment now before the Council. The Hon'ble Mr. Moore proposes that the Port Commissioners shall be authorized to remove a wharf only in the event of its interfering with the 'safety of navigation, or the improvement, maintenance or good government of the port.' Any man who can once get his wharf on the bed of the Hughli, under the first clause of the Hon'ble Mr Moore's amendment is protected from its removal, unless it interferes with navigation, lawful or unlawful. That, to my mind, is a most fatal objection to the Hon'ble Mr. Moore's amendment. But there is another objection to the amendment, and that is that there is not the least necessity for

its existence, inasmuch as under the provisions of the Indian Ports Act of 1889, section 12,—

'If any obstruction or impediment to the navigation of any port subject to this Act has been lawfully made, or has become lawful by reason of the long continuance of such obstruction or impediment, or otherwise, the Conservator shall report the same for the information of the Local Government, and shall with the sanction of that Government, cause the same to be removed or altered, making reasonable compensation to the person suffering damage by such removal or alteration.'

"The existence of this section in the Ports Act of the Government of India of 1889 does away with the necessity for the Hon'ble Mr. Moore's amendment, which simply proposes to re-enact in a feebler manner what is already the law. Mr. Woodroffe in his complaisant third opinion objects to the word 'lawful,' as being ambiguous. There is precedent enough, seeing the Government of India in the Act of 1889 uses this word. No ambiguity lies in the word 'lawful,' but the ambiguity lies in the peculiar circumstances under which most of these jetties have been run out. I take two objections to the first clause of the Hon'ble Mr. Moore's amendment—*first*, because it does not authorise the Commissioners to remove a jetty erected without any legal right until it becomes an obstruction to navigation; and *secondly*, because it is a mere repetition of section 12 of the Ports Act of 1889; and these objections ought to be fatal to the amendment proposed by him.

"With reference to the amendment proposed by the Hon'ble Sir Henry Harrison, I certainly think it concedes everything that the Chamber of Commerce or the gentlemen in whose name it speaks have any right to expect. But, after all, what is the whole dispute? The whole discussion on section 85 is without any practical bearing. It is a mere fight in the air. I suppose some gentlemen here have kept dogs and know that on full moon young dogs bark furiously at the moon. The legend is, they fear, the moon is about to fall on them. This seems to me the best illustration of the fantastic fears which have stirred up the Chamber of Commerce gentlemen. They are alarmed lest something should happen which cannot possibly happen. The only possibility of its happening is if the port should be extended up the river to Barrackpore. Did any one ever hear of a port that moved up a river? I challenge any gentleman to show me a case, and especially up such a river as the Hooghly. But I quite agree with what has fallen from the Hon'ble Mr. Nolan, as to the importance of not letting in words into this Act which may lead to a false interpretation of the general law, and which would have effects far beyond the port of Calcutta. We know that throughout the mofussil on the banks of rivers the zemindars are asserting rights which are entirely incompatible with the free navigation of those rivers, and for the most part they succeed in carrying their point. Therefore, it is of the utmost importance not to introduce any words in this Act which could in any way strengthen or back up encroachments of this kind."

The Hon'ble SIR CHARLES PAUL said:—"I wish to say a few words. I consider the subject not capable of any serious discussion. Whilst on the one hand we are to remember that in legislating we should not confiscate property belonging to others; on the other hand we should equally remember that we should not enact anything which would enable the Port Commissioners to throw away their money, and put it into the pockets of people who are not entitled to receive it.

"The Hon'ble Mr. Moore has correctly enunciated his first proposition, namely, that a person should be fully recompensed for the loss of his private rights. I quite agree with him; but if there are no private rights, public money should not be thrown away in paying for what does not exist. The question therefore reduces itself to this: Are there such private rights as have been stated to exist? In 1870, this Council decided that there were no such private rights, and enacted that nobody should, after 1870, make any wharves or jetties without the permission of the Lieutenant-Governor. To that provision of law exception had been taken, and we have been told that we should not decide upon such rights.

"And yet, looking to the Hon'ble Mr. Moore's amendment, it is plain that we are called upon to recognise such rights as he puts forward, and to give compensation for their removal. But if we are called upon to decide as

to such rights, there are members of Council here present who are quite strong enough to decide upon such rights, and to decide upon them in the way in which Sir Arthur Hobhouse informed the memorialists that he would decide them if he were forced to do so. It was because this Council did not wish to decide upon such rights that a middle course has been taken in the proposal put forward by the Hon'ble Sir Henry Harrison.

"Now the Hon'ble Mr. Moore wants us to recognise those rights; he wants that, whenever a person puts up a wharf, or a jetty, or a stage on the foreshore of the river, you should, whenever it becomes necessary in the interests of the public to remove such wharf, or jetty, or stage, make compensation as if the man had a right to put up the wharf or jetty there. He wants us to recognise that principle. But if, in the opinion of persons competent to judge, there is no such right, then why should compensation be paid?

"Take the case which the Hon'ble Mr. Allen has put, that somebody, having no possible right to do so, presumed to put up an obstruction on the foreshore of the river. Would it be fair to give him compensation for the removal of that obstruction? The Hon'ble Mr. Moore would say, I do not ask for that. He says compensation should be given when the obstruction is put up on land belonging to the private owner, whether acquired by grant from the Government, or by prescriptive right or otherwise. 'Otherwise' may include by theft or by invasion. There is nothing to prevent a person clandestinely putting up an obstruction in a remote part of the river. Let us see whether the right is one which can exist or not.

"Mr. Woodroffe in his first opinion points out that the right cannot exist when it interferes with the navigation of the river. Therefore, if you ask for compensation, you must first satisfy the person who has to award the compensation that it does not interfere with the navigation of the river, because, if it does interfere with navigation, it is removable under the general law of the land and Regulation XI of 1825.

"Then, take the cases which the Hon'ble Mr. Moore gives of obstructions raised on lands granted by the Government. These grants referred to settlements made by Mr. Crow of lands down to low-water-mark. In considering those cases you would have to examine the meaning of the settlement. What was settled? What was given? Were they given for agricultural purposes, or for what purposes? If you come to the conclusion that they were given for agricultural purposes, that would give a right to cultivation down to low-water-mark.

"We all know that in the dry season lands are in some places cultivated down to low-water-mark, but it never was intended that the settlements so made should be in derogation of public rights of navigation. They could not in any way interfere with the rights of navigation. It never could have been intended that under settlements of that sort a man, instead of growing crops upon the land, would have a right to put up a jetty down to low-water-mark.

"In the case of lands granted by the Government, the parties who ask for compensation would come in and say, this is our land and we can do what we like with it; and if we do put up a house or a stage, we have lawfully done it, and if you remove what we have put up, you shall pay in compensation. If the case is put in that way, it is a case that might admit of the answer already given. And, suppose such a case could be put, it would be a disputed case.

"Then is it right for the Hon'ble Mr. Moore and those who are with him to say that, although the case may well be disputed, whether land granted for purposes of cultivation can be used so as to interfere with the navigation of the river, yet such dispute should be shut out by legislation. Take the case of the consent of the Local Government given in writing, which would be generally considered as a strong case. Even, in such a case, a question may arise as to the competence of the Lieutenant-Governor to give his consent.

"We hear of people in Benares running their sewers into the river and thus polluting the river. I maintain that the consent of the Local Government would not justify any person in committing such a nuisance. The Port Commissioners are entitled to say that compensation should not be given for an unlawful act which was removable before by the executive authority, and which the law under consideration will enable him to remove.

Does the Hon'ble Mr. Moore want us to decide whether in such cases compensation should or should not be given? I, for one, 'am quite prepared to decide that question. It has been ruled by the Privy Council in 6, Moore's Indian Appeals, that the bed of the river Hughli up to high-water-mark is the property of the Crown; and it being so decided by the Privy Council, we may take it, that every person who makes any obstruction in the bed of the river commits an offence for which he may be indicted under the law.

"In England the law is so strict that, if you put up a stake or post in the river you will be liable to be indicted and to be severely punished; and yet can it be contended here that, while on the one hand any person putting up a structure between high-water and low water-mark can be indicted for a nuisance and subjected to fine; on the other hand he is supposed to possess such a right that he is to be entitled to compensation for the removal of the obstruction? A misconception of this kind could hardly go farther. Therefore, if we are called upon to decide upon the alleged right, we should have no hesitation in deciding that we should give no compensation at all. But since it might be a harsh measure to make this Council usurp the place of the judges of the land and prevent people from making claims, we propose to give them every opportunity to do so. Therefore, the section provides that, whoever lawfully makes or erects any such structure shall be entitled to institute a civil suit for the award of compensation to him for the injury caused by the removal of such structure. This word 'lawful' is used advisedly. Where the facts constitute a thing to be lawful, it shall be lawful; but we say questions of that kind must be determined by the Courts In the section proposed by the Hon'ble Mr. Moore we have the word 'otherwise.'

"The word 'lawful' is in no sense ambiguous: the word 'otherwise' is clearly so. The amendment first proposed in behalf of the Government was objected to, and now, when the word 'lawful' is put in in order to admit of every possible claim, objection is taken to that word. I do not wish to enlarge on the subject because I always give credit to persons setting up rights that they are actuated by sincere feelings; though I am bound to say that in this case this matter has been looked at with one eye kept open, and the other closely shut, so as not to admit of an adverse view. I think I have shown inconsistences in the views advanced.

"We have steadily followed the lines laid down by Sir Arthur Hobhouse in the Act of 1875, which, he said, would not in any way prejudice or touch the rights of private property. If there is a cause of action, well and good: compensation will be obtained; otherwise the Courts will not give compensation. What is there to complain of? The Hon'ble Mr. Moore says, here is a wharf erected by me on land granted by Government. If that wharf does not interfere with the navigation of the river, the Courts will give compensation. But if it is erected otherwise, the Courts will not give compensation. How can this Council recognise and confirm private rights, the existence of which is asserted on one side and denied on the other side? The only remedy is to let the Courts decide whether or not those rights exist. If they want a decision on this point, I am quite ready to abide by Mr. Woodroffe's opinion. No lawyer in the land, much less a lawyer of the experience of Mr Woodroffe, would come to a different conclusion. The law is clear; but, as the Hon'ble Dr. Rash Behary Ghose said, in this country, the question to whom the bed of a river belongs when the river has deserted its course and gone in another direction, is doubtful. It is quite possible it belongs to the zemindar of the adjacent lands with whom the settlement has been made. But that is not the question here. We have here a river which remains in one channel, and in regard to which the Privy Council has decided that its bed is the property of the Government. We must either decide upon the alleged rights ourselves or leave it to the claimants to bring their suits; and the section has therefore been so drawn as to give every possible freedom for legal remedies (if any).

"I need hardly say anything further beyond pointing out, as observed by the Hon'ble Mr. Nolan, that as in the case of large tracts of land the declaration of the Government is taken as final; so where a notification of Government made under similar circumstances regarding a much less important matter, should be admitted to be final. That the parties should have a right to represent their case to the Government is right and proper,

and I have no doubt that some rule or order to that effect will be made. The Government is most desirous to control the arbitrary power of the Port Commissioners, and one would have thought that, having regard to the future constitution of that body, the use of the word 'arbitrary' as applied to them, would disappear. The Bill, however, provides a restraint upon the power of the Commissioners by interposing the judgment of one who, without risking his position, could not act 'arbitrarily.' That people may arbitrarily interfere is possible, but there are checks to arbitrary interference. Government officers and others are subject to some sort of jurisdiction when they act arbitrarily, and the Courts of Justice can be trusted to interfere when public bodies act in infraction of the law.

"I entirely dispute the proposition involved in the section proposed by the Hon'ble Mr. Moore to be substituted for section 85, and I support the amendment of the Hon'ble Sir Henry Harrison, which, I think, is conceived in a spirit of fairness. The amendment proposed by the Hon'ble Mr. Moore would give compensation, whether the act done was lawful or unlawful; and that was a form of compensation which, I think, the Legislature would not be disposed to give out of the pockets of the Port Commissioners."

The Hon'ble MR. MOORE said in reply :—"It is exceedingly difficult for me to reply to all the objections which have been made to my amendment; especially when arrayed against me is one of the ablest advocates of the Bar, and I have not Counsel at my elbow to advise me. But I find one crumb of comfort in his speech, that he is willing to trust to Mr. Woodroffe's opinion." (SIR CHARLES PAUL:—"His first opinion.") "Well, it is in that first opinion that Mr. Woodroffe says, I have ample reasons for pressing for the protection of existing rights. I am very gratified to find that the whole tenour of the debate concedes this necessity which I have pressed, and there only remains the form of section to be agreed to in place of the existing one. I am perfectly willing to concede the main objections which have been raised to my draft. I see the force of the Hon'ble Sir Alfred Croft's objection that, it is not laid down who is to judge whether a structure is in the way of navigation, &c., and I am willing to meet this by adding in line 6 the words 'when in the opinion of the Local Government.' I also beg to repudiate the idea that I suggest, or ever intended to suggest, that any works unlawfully made should be compensated, for of course, if the law has been broken, the consequences must be abided; and in testimony of this, I am willing to add the word 'lawfully' in line 13 between the words 'was' and 'made,' though, I believe, I am in the alteration to a certain extent giving myself away. Other objections made are more in matter of detail, and if, as the Hon'ble Dr. Rash Behary Ghose pointed out, the words 'by prescriptive right' ought to read 'by prescription,' I alter them to such effect. With the changes thus made I commit my amendment to the votes of the Council."

His Honour the PRESIDENT said :—"Before putting the various amendments to the vote, I wish to say a few words for my own part And, first, I must say I agree with the Hon'ble Mr. Nolan that for practical purposes the whole fight—and a very interesting fight it has been—has been of a purely academical character, and it is a phantom from whichever point of view you regard it. In the first place, this section only takes effect in case of the limits of the port being extended. Whoever has read the history of the port, which was extended from Calcutta downwards—not because we wanted an extension, but because we wanted Budge-Budge—and really supposes that, under existing conditions, the Port Commissioners will desire to have the port extended up the river—I can only say I cannot understand on what possible grounds such a probability could be expected. From that point of view, I think the whole discussion has been a purely academical one; as also from another point of view, which was put forward by the Hon'ble Mr. Nolan, namely, that the Port Commissioners have had this section on the Statute Book for the last twenty years and have apparently never used it

"But from another point of view, the discussion has been a very useful one. It has opened out, not without inconvenience perhaps, certain large questions, but it has enabled us to justify the object and history of this section. That some justification is necessary, I think you will admit, when I read to you what has been said about this Council by a gentleman who telegraphs home

information from Calcutta to the *Times* newspaper. Speaking of this section, he describes it as follows:—'The inequitable and mischievous character of the power proposed to be conferred on the Commissioners in all cases of extension of the port to remove and destroy all buildings'—mark that, please,—not buildings in the bed of the river, nor buildings between high and low-water-mark—but 'all buildings which may have been erected prior to such extension without formal sanction by the Local Government and without making any compensation' This is what we are deliberately accused of doing on the authority of the gentleman who telegraphs to the *Times*. Then he goes on to say:—'This power of arbitrary confiscation would be a serious blow dealt at commercial interests, and would imperil mills and other commercial property exceeding in value a crore of rupees.' Perhaps my hon'ble friend can tell me what mills are referred to as in jeopardy to the extent of one crore of rupees. 'Corporations,' he continues, 'are proverbially high-handed'—(I believe in this case there are at least five members of the Chamber of Commerce on the Corporation referred to)—'and the callous conduct of the Government in like cases in the past by no means justifies unlimited confidence to their commercial justice in the future'

"Now, that is the sort of assertion that goes about all Europe in regard to legislation conducted by this Council. To understand the section at all you must study the Act of 1870, and as it has been recently altered, a certain knowledge of the history of the whole question is necessary, which probably those who have been attacking us have not taken the trouble to acquire That history has been gone into pretty fully in to-day's discussion, and I shall, for my part, only refer to it very briefly indeed. We need not go behind the Act of 1855, which was the basis of the subsequent legislation by the Government of India, namely, the later Act of 1875, and again the present Act of 1889 in regard to ports and port fees. That Act was, as has been pointed out here, a direction to Executive Governments in dealing with ports which were not brought under any special enactment. But subsequently—and among them Calcutta—various other ports have been brought under special enactments. The section which was introduced into the Act of 1870 was no doubt introduced in conformity, or in supposed conformity, with the law of 1855 as it stood then. There was very little discussion in the Bengal Council about it. I have referred to that discussion and have it here. But what little discussion there was, consisted in the commercial members extending and not limiting its scope. As originally proposed, it was only in cases of extension of the port within one mile of the then limits, and the commercial members said: 'No. If this is the law, why limit it to one mile? Wherever the port is extended the law shall stand.' This was accepted. But it does not seem to have attracted very much attention at the time.

"Subsequently, when the Act of 1855 was before the Government of India for amendment, it attracted attention. There were two memorials presented, and the whole matter was discussed by Mr. Hobhouse The memorials were based upon the claim of riparian owners to have the right of ownership in the foreshore, which the Act of 1870 had jeopardised, and which they wanted to be in some way, by some side-wind, acknowledged and admitted into the Act of 1875, and this Sir Arthur Hobhouse distinctly refused to admit. I need not read all he said, but there are one or two points I wish to make clear about it. He said:—

'Now, I mentioned that the riparian owners took a lively interest in this Bill, and the reason is that they are engaged in a controversy with the Port Commissioners, or the Bengal Government, or both, respecting some rights claimed by them over the foreshore down to low-water-mark. So they have addressed us on paper, and have also had the kindness to meet us in conference, and have urged that the new Bill ought to contain something to place them in some more favourable position, by recognising the fact of their claims, and at all events the possible validity of them, which, they say, is denied by their opponents. Now, there may be claims to private property of such a kind and on such a scale as to justify the Legislature in interfering to settle them. But these Calcutta controversies did not appear to us to be of such character. They appear to possess the characteristics of ordinary lawsuits, and we could not see why we should be called upon to interfere on one side or on the other Indeed, I do not suppose that the riparian owners would be pleased if we interfered on the side of the public, and neither the Port Commissioners nor the Bengal Government have asked us to do so Well, then, our position is that whatever right the public have against the claims of private property, and whatever protection private property has received against the claims of

the public, are to be found in the existing Act of 1855 and have been thereby ascertained and regulated for twenty years. It may indeed be for more than twenty years, but we have not looked behind the Act of 1855. At all events for twenty years the public have had the rights which the existing law gives them, and we could find no reason why those rights should now be lessened.'

"The result of that was, that Mr. Hobhouse distinctly said that he looked upon these questions between riparian owners and the Government of Bengal, or rather the Port Commissioners, as questions for litigation and not for legislation. He distinctly rejected the claim of the memorialists to put anything into the Act, which should imply that our section in the Act of 1870 was in any way wrong or erroneous. As the Hon'ble Mr. Allen has pointed out, this is the identical section about which such very strong language has been used in the *Times* newspaper, and this identical section was deliberately repeated word for word and incorporated in the Act passed by the Government of India for the port of Rangoon—not before the discussion of 1870, but in 1879, after the whole question was before them. The main object of the section of 1870 was, as I understand it, to give riparian owners a warning that, in future, if they chose to erect jetties, or any of those other erections, on ground below high-water-mark, they must get permission to erect it, otherwise they were doing it at their own peril, and they must not expect compensation for it. This has been the law of the land for the last twenty years, and since 1875, I do not think anybody has heard any complaint.

"The Select Committee in altering the Bill necessarily gave the wording of the Act of 1870 a retrospective shape. So 'shall' they necessarily changed into 'may have been' so as to make it in accordance with the law of 1870; but they did not include what they might have included—an exception for anything built or erected before 1870. If they had done so, I do not think there would have been a word altered: it would have remained exactly as it stood, and I do not see how anybody could have taken exception to it. But it is perhaps not a very serious matter, as I understand the number of jetties built previous to 1870 is something exceedingly small. Now, however, the whole principle has been taken exception to. Well, on receiving the protest of the Hon'ble Mr. Moore, as a member of the Select Committee, I discussed the question with the members of the Select Committee, and the outcome of it was, the amendment as it stood to be introduced into the Council some three weeks ago. Well, that amendment apparently did not meet altogether with the views of the Chamber of Commerce. The point about the amendment was, that it tried to state explicitly the only circumstances under which compensation could be claimed, but that it did not satisfy the hon'ble member opposite (Mr. Moore), may be taken from the fact that his own amendment inserts the words 'or otherwise' after repeating practically what was in the amendment of the Hon'ble Sir Henry Harrison.

"Very well: finding that that did not satisfy him, and after reading the memorial of the Chamber of Commerce, the matter was subjected to further reconsideration, and the result was this section as it now stands This section, as it now stands, is based exactly upon what Sir Arthur Hobhouse said in Council in 1875, that these questions between the Government and the riparian owners are questions not for legislation, but for the Law Courts. If they appealed to the Law Courts, the Law Courts would settle them. We decline to say or to give any indication of the circumstances under which compensation shall be given, except that the jetty or other erection shall have been lawfully erected and built. Nobody, I think, could criticise that section on the ground that the word 'lawfully' is not sufficiently clear. To say that it is ambiguous shows either one of two things—either that they want to include more than is lawful, or that they must be very hard put to find fault with our amendment. I must say for myself that I was inclined to prefer the amendment as originally drawn up, but now that I have seen the very weak nature of the objections taken to the amendment as it stands, I unhesitatingly give my opinion in favour of the new amendment.

"The only point which has not been really noticed in the discussion which has taken place to-day is, the objection that the Government of Bengal will not give the party injured an opportunity of being listened to. I observe that that remark was supported by my hon'ble friend on my left (Mr. Peacock), for many years Secretary to the Government of Bengal, and

who ought to know perfectly well what does really happen. I do not think it is necessary to introduce any remedy for this in the Bill, but I am perfectly prepared to remedy it by a rule setting forth that in any case in which an application is made to the Government of Bengal for direction to demolish these jetties, no order shall be passed upon it until an opportunity has been given to the persons concerned of being heard. And, so far as I am myself concerned, I pledge this Government to carry that out.

"We have received, besides the memorial from the Chamber of Commerce, a memorial from the British Indian Association. That memorial covers a very large area of ground; it goes into the question of the rights of riparian owners all over Bengal. Now, I say emphatically that the questions raised by the British Indian Association do not arise in connection with this question. The question is a very difficult one, and may be a very important one; but this Bill at all events is not the occasion on which to discuss it. It does not arise necessarily out of anything in this Bill, and 'sufficient to the day is the evil thereof.' When the time comes for raising the discussion, I have no doubt the British Indian Association will put their views before us in full form and with full force. But as I said before, after giving their memorial all consideration, I find that really it at no point touches the question that now comes before us.

"The only question remaining is, that as between the amendment proposed by the Hon'ble Mr. Moore and the amendment proposed by the member in charge of the Bill. I am bound to say that the alterations which the Hon'ble Mr. Moore has now made in his amendment, have taken away a very considerable amount of objection to it. But, on the whole, I think that the Hon'ble Sir Henry Harrison's amendment is, if not in appearance, in reality more liberal, because it does not pretend to define the circumstances under which compensation may be claimed as the Hon'ble Mr. Moore's does; and I think the Hon'ble Sir Henry Harrison's amendment the more convenient one and a better drafted one, and I myself prefer it."

The Hon'ble MR. MOORE moved that the following revised section be substituted for section 85 of the Bill:—

"85. In case any wharf, quay, stage, jetty, pier, erection or mooring may have been or hereafter shall be, made, erected, or fixed within or without high-water-mark without the limits of the port, and thereafter the limits for the time being of the port shall be extended so as to include the place on which such wharf, quay, stage, jetty, pier, erection or mooring shall have been made, erected, or fixed, it shall be lawful for the Commissioners, when in the opinion of the Local Government the safety of navigation, or the improvement, maintenance or good government of the port so requires, to remove, fill up, or destroy such wharf, quay, stage jetty, pier, erection or mooring:

Provided that when any such work has, under this section, been so dealt with, the Commissioners shall, when such work was made on behalf of the public for the convenience of public traffic, make or provide for the use of the public such sufficient wharves, quays, stages, jetties, piers, erections or moorings as the Local Government may direct, and shall, when such work was lawfully made by any private person for the convenience of private traffic—

(*a*) on land belonging to the Government, with the previous consent of the Local Government in writing, or of which the making, erecting, or fixing has been subsequently sanctioned by the Local Government in writing; or

(*b*) on land belonging to the private owner, whether acquired by grant from the Government, or by prescription, or otherwise,

make compensation therefor to the owners thereof to such an amount as may be determined by agreement by and between the Commissioners and such owners, or by the Civil Court in which a suit may be brought to establish and enforce such right of compensation."

The amendment being put, the Council divided:—

Ayes.	*Noes.*
The Hon'ble Raja Rameshwar Sing Bahadur.	The Hon'ble Dr. Rash Behary Ghose.
The Hon'ble H. Pratt.	The Hon'ble Shahzada Mahommed Furrokh Shah.
The Hon'ble C. H. Moore.	The Hon'ble Sir Alfred Croft.
The Hon'ble F. B Peacock.	The Hon'ble Sir Henry Harrison.
	The Hon'ble T. T. Allen.
	The Hon'ble P. Nolan.
	The Hon'ble Sir Charles Paul.
	His Honour the President.

So the Motion was lost.

The Hon'ble SIR HENRY HARRISON's amendment that, for section 85 of the Bill, the section as proposed by him be substituted, was put to the vote and agreed to.

The Hon'ble MR. NOLAN, by leave of the Council, withdrew the following motion of which he had given notice:—

'That the existing law on the subject, as contained in section 57 of Act V of 1870, be left unaltered. Section 85 of the Bill will then run as follows:—

'In case any wharf, dock, quay, jetty, pier, erection or mooring shall, after the seventeenth day of October, 1870, without the consent in writing of the Lieutenant-Governor of Bengal, have been fixed, excavated, erected, or built below high-water-mark without the limits for the time being of the port, and thereafter the limits of the port shall be extended so as to include the place in which such wharf, dock, quay, jetty, pier, erection or mooring shall have been fixed, excavated, erected or built, it shall be lawful for the Commissioners to remove, fill up, or destroy such wharf, dock, quay, jetty, pier, erection or mooring without making any compensation therefor.'

The Hon'ble SIR HENRY HARRISON moved that, between sections 85 and 86 of the Bill, the following section be inserted:—

'85 A. Whenever any wharves, quays, stages, jetties, piers, erections or moorings have, under the last preceding section, been removed, filled up, or destroyed, the Commissioners shall make or provide for the use of the public such sufficient and convenient wharves, quays, stages, jetties, piers, erections or moorings in the place of those that may be removed, filled up, or destroyed, as the Local Government may direct'

The Motion was put and agreed to.

The further consideration of the Bill was postponed till the next sitting of the Council.

The Council adjourned to Saturday, the 22nd February, 1890.

CALCUTTA;

The 20th February, 1890.

C. H. REILY,

Assistant Secretary to the Govt. of Bengal,
Legislative Department.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd February, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVS. 1	Burdwan Feb. 22, '90	Nil	Weather—rather warm. Prospects of *rubbi* crops favourable. Sugarcane promising. Potato almost fair. Prices of common rice :— Srs. Burdwan ... . 18 / Culna ... . 16 / Cutwa ... . 16½ / Ranigunge ... ... 20 } per rupee
2	Bankoora „ 22, '90	Nil	Weather—getting warm. *Rubbi* crops coming on well; a ten-annas outturn is expected. Pressing of sugarcane proceeds; outturn 13½ annas. Common rice 19 seers per rupee at Sudder and 20 seers at Bishenpore.
3	Birbhum „ 22, '90	Nil	Weather—warmer. Prospects of crops fair. Common rice selling at 17 to 20 seers per rupee.
4	Midnapur „ 22, '90	Nil	Weather—getting warm. General prospects good. *Rubbi* being gathered in the Sudder subdivision. Prospect fairly good. Indigo doing well. Prices of rice :— Srs. Sudder ... ... 18 / Contai ... ... 26 / Tamluk .. .. 18 / Ghatal ... ... 20 } per rupee.
5	Hooghly „ 22, '90	Nil	Weather—seasonable. *Rubbi* yielding good outturn. Prices of common rice :— Srs. Sudder ... ... 12½ / Serampore ... ... 14 / Jehanabad ... ... 17½ } per rupee.
	Howrah „ 22, '90	Nil	Weather—warm in the day, cool at night. Transplantation of *boro* paddy completed. Prospects good. Prices of common rice :— Srs. Howrah ... ... 12½ / Uluberia ... ... 16 } per rupee.
	Central Districts.		
PRESIDENCY DIVS. 6	24-Perghs Feb. 22, '90	Nil	Weather—seasonable. Good *amun* crop has been harvested. Winter crops are being harvested, and promise well. *Boro* rice doing well. Price of common rice 16 seers per rupee.
7	Nuddea „ 22, '90	Nil	Weather—seasonable. Prospects of crops on the ground favourable. Linseed, mustard, and tobacco being harvested. Cultivation of land for *aus* going on. Rain wanted.
8	Khoolna „ 22, '90	Nil	Weather—warm during the day, but cool at night. State of *boro* and *rubbi* crops fair.
9	Jessore „ 22, '90	Nil	Weather—days hot, but nights cold. Ploughing of rice lands and harvesting of winter crops going on. Outturn of linseed expected to be 12 annas. Prices of rice stationary.
10	Moorshedabad „ 22, '90	Nil	Weather—cool and clear. *Rubbi* harvesting has begun.
RAJSHAHYE DIVS. 11	Dinagepur „ 22, '90	Nil	Weather—days hot, but nights cool Harvesting of *amun* rice nearly over Land is being ploughed for *bhadoi*. Harvesting of winter crops and pressing of sugarcane continue.
12	Rajshahye „ 22, '90	Nil	Weather—hot in the day, but cool at night. Harvesting of *amun* paddy over in the Nattore subdivision with an average outturn of 10 annas only. Prospects of *rubbi* crops good generally. Ganja manufacture continues at Nowgong. Rice sells at 17 seers 2 chittacks per rupee.
13	Rungpur „ 22, '90	Nil	Weather—hot days, but cool nights. Mustard is being gathered with a fair outturn. Other standing crops are promising. Ploughing operations are in active progress.
14	Bogra „ 22, '90	Nil	Weather—seasonable. Land is being ploughed for *aus* paddy and jute. State of standing crops (such as peas, linseed, gram, &c.) reported to be good. Common rice selling at 22 seers per rupee.
15	Pubna „ 22, '90	Nil	Weather—seasonable, Mustard and tobacco expected to be 12-annas crops. Sugarcane deficient. Rain wanted, especially for *cheena* and *kaon*.
16	Darjeeling „ 22, '90	Nil	Weather—fair. Wheat and barley progressing favourably. In Terai, land is being prepared for *bhadoi* crops and jute. Price of common rice continues the same as in last week, viz.,— Srs. Darjeeling ... ... 12 / Kurseong ... ... 13 / Silliguri ... . 19 } per rupee.
17	Julpigoree „ 22, '90	Nil	Weather—seasonable. Tobacco crop injured by hail in the northern taluks of Mynagori tehsil, but in other places it is favourably reported on. No change in prices.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts.		
Dacca Divn.	18	Dacca Feb. 22, '90	Nil	Weather—days getting warm, but nights cool. Winter crops doing well. *Cheena* and *kaon* being sown. Mustard and sugarcane being cut. Fodder is available. No special change in the prices of food-grains. Common rice 13 to 14½ seers per rupee.
	19	Furreedpur ,, 22, '90	Nil	Weather—growing warm; night of 17th especially sultry. Mustard nearly picked; outturn 10 annas. Other *rubbi* crops promise fairly, as also *jaik* rice. Cultivation for *aus* rice and *til* in progress. Sugarcane and date-juice being made into molasses. Coarse rice selling at 16 seers per rupee at Sudder and Goalundo, and at 15 seers per rupee at Madaripur.
	20	Backergunge ,, 22, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops good. Rain wanted. Common rice sells at 14 seers a rupee.
	21	Mymensingh ,, 22, 90	Nil	Weather—seasonable. Cultivation of *aus* and jute in some lands has begun. Mustard is still being cut. Pulses, viz., *mug*, *khesari*, and *matar kalai*, ripening. Coarse rice is being sold at 13 seers 14 chittacks per rupee.
Chittagong Divn.	22	Chittagong ,, 22, '90	Nil	Weather—seasonable The state of winter crops good, but rain is wanted in the south, where weather is reported unsettled.
	23	Noakholly ,, 22, '90	Nil	Weather—getting warm; occasionally cloudy. Harvesting of *rubbi* crops and ploughing of land for *aus* commenced. Rain wanted in some places. Price of rice stationary.
	24	Tipperah ,, 22, '90	Nil	Weather—rather warm for this time of the year. *Chillies* being reaped. Other winter crops (pulses, &c.) thriving. Rice selling at from 14½ to 16 seers per rupee.
	25	Chittagong Hill Tracts. ,, 21, '90	Nil	Weather—cold in the morning throughout the week. Gathering of mustard continues; outturn estimated at about 6 annas. Tobacco and *chillies* doing well. *Jum* cutting has commenced in some places. Best and middle class rice selling at 12 seers 5 chittacks and 13 seers 14 chittacks per rupee respectively.
		Hill Tipperah ,, 22, '90	Nil	Weather—getting warm. Sugarcane and tobacco still being cut. Mustard being gathered. *Jums* still being cleared in the hills.
BEHAR				
Patna Divn.	26	Patna , 22, 90	Nil	Weather days warm, but nights cool. Wheat and barley have not yet ripened. Other spring crops are being reaped. Collection of opium continues. Prospects favourable. Prices of food-grains almost stationary.
	27	Gya ,, 22, '90	Nil	Weather—getting warm in the day. *Rabbi* crops arriving to maturity. Mustard, *masuri*, and gram being reaped. Extraction of opium going on. Food-stocks sufficient.
	28	Shahabad ,, 22, '90	Nil	Weather—days hot, nights still cool. Pulses being gathered with fair outturn. Other *rubbi* crops promising Prospects of opium crop good. Prices of food-grains stationary.
	29	Durbhunga ,, 22, '90	Nil	Weather—days getting warm. Wheat, barley, and linseed approaching maturity; outturn estimated at 12 annas on an average. Poppy blossoming, and prospects continue good. Mustard being reaped. Mango trees are abundantly in flower. Common rice selling at 19¾ seers per rupee.
	30	Mozufferpur ,, 22, '90	Nil	Weather—warmer with west wind. Condition and prospects of *rubbi* crops good. Outturn of mustard from 12 to 16 annas.
	31	Sarun ,, 22 90	Nil	Weather—getting hot. *Rubbi* and poppy crops doing well, and give favourable prospect. Lands in churs are being prepared for paddy.
	32	Chumparun ,, 22, '90	Nil	Weather—bright and warm; occasionally stormy with high west wind. *Rubbi* ripening; reaping will commence in the next fortnight. Poppy well in flower and keeping healthy
Bhagulpore Divn.	33	Monghyr ,, 22 '90	Nil	Weather—seasonable. Harvesting of mustard and pulses going on Wheat and barley ripening. Indigo being sown in the Begusarai subdivision. Prices of food-grains almost stationary.
	34	Bhagulpur ,, 22 '90	Nil	Weather—getting warmer. It is now too late for rain to do good, and the *rubbi* crop must be a light one. Cereals on dearahs may yield 10 to 12 annas, but on high lands will be below 8 annas. Pulses very fair. Mango blossoms profuse.
	35	Purneah ,, 22, '90	Nil	Weather—days rather warm with west wind. Tobacco being gathered. All *rubbi* crops doing well. Ploughing going on.
	36	Maldah ,, 22, '90	Nil	Weather—days getting warmer, but nights still cool. Gathering of *kalai* and mustard over, except in one or two places. The outturn is expected to average about 12 annas, but from thanas Gumashtapur and Bholahat it is reported to be about 8 annas. Transplantation of *boro* paddy going on; in some places the plants are up. Prospects of other standing crops good, but damage is apprehended for want of rain. Common rice selling at an average of 18 seers per rupee.
	37	Santhal Perghs. ,, 22, '90	Nil	Weather—becoming warmer. *Rubbi* crops doing well. *Boro* paddy being planted. Mango trees full of blossom.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Feb. 22, '90	Nil	Weather—fine. Tobacco doing well. General prospects continue good
	39	Pooree „ 21, '90	Nil	Weather—seasonable. Threshing of winter crop (late *sarad*) still continues. *Dalua* crop has come up in places. Prices of rice stationary.
	40	Balasore „ 22, '90	Nil	Weather—warm for the time of year. *Rabbi* crops doing fairly well.
CHOTA NAGPORE				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Feb. 22, '90	Nil	Weather—seasonable. Full *rabbi* crop expected except in Chowparun Poppy prospects favourable.
	42	Lohardugga „ 22, '90	Nil	Weather—days hot, mornings cool. Prospects of *rabbi* crops favourable at head-quarters. In Palamow, wheat tolerably developing; *masoor*, peas, and mustard being harvested; *rahar* greatly damaged by frost.
	43	Singbhoom „ 22, '90	Nil	Weather—warm. Pulses, oilseeds, and wheat all thriving. Full crop expected. Prices stationary.
	44	Manbhoom „ 22, '90	Nil	Weather—hotter. Spring crops doing well, except *arhar* of which the outturn is estimated to be from 8 to 10 annas.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 25th February, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH FEBRUARY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 8	14 8	12 0	No sale.			14 4	12 12	15 0	17 1	16 14	18 0	...	...	...
2	Bankoora	14 8	14 8	12 8	14 0	14 0	15 0	17 8	17 8	17 8	21 4	21 0	20 0			.
3	Beerbhoom ...	15 0	15 8	11 0	...	...	...	13 8	13 8	13 0	16 8	16 8	15 12	..	..	...
4	Midnapore .	13 0	13 0	10 0	.	..	...	14 0	12 8	15 0	18 0	17 0	20 0	.		...
5	Hooghly	13 0	13 0	13 0	..	...	..	8 0	8 0	10 0	13 0	13 0	13 0			...
	Howrah	...	...		...	..	...	11 8	9 8	12 0	14 8	14 0	15 2	.	...	..
	Central Districts.															
	Calcutta	13 9	13 12	12 6	17 2	18 .	14 14	9 1	9 2	9 7	13 15	13 14	14 12	21 0	20 3	16 0
6	24-Pergunnahs	14 8	15 0	13 4	16 0	16 0	16 0	9 0	9 0	8 0	17 0	16 8	16 8	...	...	...
7	Nuddea	15 0	15 0	14 0	17 12	17 12	17 12	10 10½	10 10½	13 5	12 14	12 14	17 1½	.		...
8	Khoolna ...			...				14 0	13 0	16 0	16 0	16 0	18 0	.		.
9	Jessore	12 12	12 12	12 0	.			9 0	9 0	14 0	16 0	16 0	18 0	.		...
10	Moorshedabad	16 0	16 0	13 5	.			15 8	15 8	13 5	16 0	16 0	16 0	.		
11	Dinagepore	17 6	16 0	12 0	20 0	19 0	10 0	15 8	14 0	13 8	19 9	19 0	17 0	..		..
12	Rajshahye	16 8	15 12	13 8	22 8	18 12	26 4	15 0	14 4	14 4	16 2	16 2	15 15	.		..
13	Rungpore	13 5	14 8	2 4			...	9 6	9 6	0 8	14 8	14 8	16 0	...		..
14	Bogra .	Best. 12 0 / Common. 15 0	13 5 / 16 8	9 15	.	..		12 0	12 0	13 8	19 2	18 12	19 8	...	...	..
15	Pubna	15 0	13 5	15 12				6 12	7 2	7 8	16 4	16 8	18 0			..
16	Darjeeling	10 0	10 0	10 0	9 0	10 0	6 0	5 0	5 8	6 0	12 0	10 0	13 0			..
17	Julpigoree	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	18 0	17 0	7 0			..
	Eastern Districts.															
18	Dacca .	13 0	13 0	15 8	16 0	16 0	20 0	14 0	14 0	15 0	16 0	16 0	17 0	...	...	..
19	Furreedpore .	12 0	12 0	16 0	14 0	12 0	20 0	10 0	10 0	9 0	14 0	14 0	16 0			..
20	Backergunge ...			.		..	.	12 13	13 5	13 8	15 0	16 0	16 0	.		
21	Mymensingh .	10 0	11 8	10 0		.	.	8 0	10 8	13 0	14 0	14 0	18 0	.	..	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranaghat 10 seers.
B At Rampore Haut retail price of salt 10 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Ghattal 10½ seers, Tumlook 8 seers, and Contai 9 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10 seers and Jehanabad 10 seers.
E In subdivisions retail prices of salt per rupee are : Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10½ seers, Chooadanga 9 seers, and Ranaghat 9 seers 2 chittacks.
G In subdivisions retail prices of salt per rupee are :—Satkhira 9 seers and Bagirhat 8 seers.
H In subdivisions retail prices of salt per rupee are : Jhenida 9 seers, Magura 9¼ seers, Narail 9½ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are : Lalbagh 10½ seers and Kandi 1 ¼ seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th February 1890.

INDIAN-CORN OR MAIZE (*Zea Mays.*)			ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	No sale.		19 0	20 0	20 0	100 0	100 0	107 0	A 10 0	10 0	10 7½	3 11 0	3 11 0	3 11 0	Burdwan.
29 0	28 0	20 0	20 0	17 8	18 8	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.
...	...	...	12 0	10 8	12 0	160 0	160 0	...	B 10 8	10 8	10 0	3 10 0	3 10 0	3 13 0	Beerbhoom.
...	...	...	13 8	13 8	21 0	160 0	160 0	160 0	C 10 3	10 3	10 4	3 15 0	3 15 0	3 14 0	Midnapore.
...	...	...	11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	...	...	13 8	13 4	13 0	100 0	100 0	100 0	10 0	10 0	10 8	3 13 0	3 13 6	3 11 0	Howrah.
															Central Districts.
18 2	18 2	16 0	17 11	17 12	16 10	100 0	100 0	100 0	10 2	10 2	10 5	3 11 0	3 11 6	3 9 7	Calcutta.
...	...	...	17 0	20 0	18 0	100 0	100 0	100 0	E 10 0	10 0	10 0	3 9 6	3 9 6	3 10 0	24-Pergunnahs
...	...	...	20 0	20 0	20 0	...	...	...	F 9 2	9 2	9 2	3 14 0	3 14 0	3 14 0	Nuddea.
...	...	...	...	...	...	160 0	160 0	160 0	G 9 8	8 0	9 2½	4 4 0	4 4 0	4 0 0	Khoolna.
...	...	...	16 0	16 0	22 0	160 0	160 0	160 0	H 9 2	9 3	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	...	19 0	19 0	22 0	200 0	200 0	200 0	I 10 12	11 0	10 0	3 12 0	3 12 0	4 0 0	Moorshedabad.
...	...	...	10 0	...	...	160 0	160 0	160 0	J 9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	Dinagepore.
...	...	...	18 0	17 10	20 2	240 0	240 0	240 0	K 9 0	9 0	9 9	4 2 8	4 2 8	4 0 0	Rajshahye.
...	...	...	9 6	9 6	10 5	100 0	100 0	120 0	L 8 14	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.
...	...	...	...	...	...	90 0	90 0	96 0	9 0	9 0	8 4	4 4 0	4 4 0	5 0 0	Bogra.
...	...	...	20 10	18 0	27 8	200 0	200 0	400 0	M 8 11½	8 11½	9 9	4 0 0	4 0 0	3 15 0	Pubna.
16 0	18 0	18 0	8 0	8 0	...	120 0	120 0	120 0	8 0	8 0	8 0	N 5 0 0	5 0 0	5 0 0	Darjeeling.
...	...	...	12 0	13 0	9 0	128 0	128 0	128 0	O 9 0	9 0	9 0	4 7 0	4 2 0	4 4 0	Julpigoree.
															Eastern Districts.
...	...	...	14 0	14 0	16 0	160 0	160 0	120 0	P 9 8	9 4	9 14	4 2 0	4 4 0	4 0 0	Dacca.
14 0	15 0	20 0	11 0	11 0	12 0	120 0	120 0	120 0	9 0	9 0	10 0	4 4 0	4 4 0	3 14 0	Furreedpore
...	...	...	...	...	...	120 0	120 0	120 0	Q 10 5	10 10	10 10	3 14 0	3 14 0	3 12 0	Backergunge.
...	...	...	15 0	14 0	20 0	...	..	..	R 9 0	9 4	9 10	4 4 0	4 2 0	4 2 0	Mymensingh.

J In Thakurgaon subdivision retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are :—Nattore 9 seers and Nowgong 8 seers 11 chittacks.
L In subdivisions retail prices of salt per rupee are :—Nilphamari 9 seers, Kurigram 9 seers, and Gaibanda 8 seers.
M At Serajgunge retail price of salt 10 seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O At Fallacutta in the Alipore subdivision retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are:—Maulokgunge 8 seers, Moonsheegunge 8 seers 14 chittacks, and Narsingunge 10 seers.
Q In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Bhola 8 seers, and Perozepore 9 seers.
R In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Shorepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT. Present return.	WHEAT. Next preceding return.	WHEAT. Corresponding return of last year.	BARLEY. Present return.	BARLEY. Next preceding return.	BARLEY. Corresponding return of last year.	RICE, BEST SORT. Present return.	RICE, BEST SORT. Next preceding return.	RICE, BEST SORT. Corresponding return of last year.	RICE, COMMON. Present return.	RICE, COMMON. Next preceding return.	RICE, COMMON. Corresponding return of last year.	JOWAR OR CHOLUM. (*Sorghum Vulgare.*) Present return.	JOWAR OR CHOLUM. (*Sorghum Vulgare.*) Next preceding return.	JOWAR OR CHOLUM. (*Sorghum Vulgare.*) Corresponding return of last year.
***Eastern Districts*—concluded.**		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	11 0	12 0	15 10	15 11	15 5	...	...	...
23	Noakholly ...	...	...	...	...	...	...	15 0	16 0	15 0	17 0	18 0	16 0	...	...	...
24	Tipperah ...	12 5	11 7	12 8	...	...	...	10 0 (Gobindabhag.)	10 0	17 0 (Chaplash.)	16 0	16 0	19 0	...	...	...
25	Chittagong Hill Tracts.	...	...	...	..	...	...	12 4	12 4	11 6½	14 0	14 0	13 5½	..	.	...
	Hill Tipperah ..	6 0	6 0	6 0	...	.	...	9 0	8 0	9 0	15 0	15 0	18 0	.	.	...
	BEHAR.															
26	Patna ...	17 8 (Red.) / 15 8 (White.)	17 8 / 15 8	... / 18 0	23 0	24 0	22 0	10 8	10 8	11 0	18 12	17 14	16 8	21 0	22 0	24 0
27	Gya ...	15 0	16 0	14 0	23 0	23 0	18 0	10 8	10 8	10 0	17 0	17 0	15 0	...	...	...
28	Shahabad ...	16 0	16 0	15 8	24 0	23 0	20 0	9 0	9 0	9 0	17 0	17 0	15 0	20 0	23 0	20 0
29	Durbhunga ...	14 4	13 3	16 0	27 8	27 8	18 0	11 0	9 14	10 8	18 2	19 3	15 8	...	...	...
30	Mozufferpore	14 0	14 0	12 0	20 0	20 0	...	9 0	9 0	9 0	17 0	17 0	12 8	...	...	...
31	Sarun ...	15 8	15 8	15 0	..	21 0	21 8	9 0	9 4	8 12	17 0	17 6	14 6	...	...	...
32	Chumparun ...	12 0	13 0	13 0	24 0	.	18 0	8 0	10 0	9 0	18 0	19 0	13 0		...	...
33	Monghyr ...	17 14	18 10	15 0	21 0	21 0	...	16 12	16 12	13 2	18 14	19 11	16 8	...	...	...
34	Bhagulpore ...	16 6	16 6	15 2	20 8	20 8	17 0	(Old. 11 6 / New. 15 2)	11 6	13 14	(New. 18 15 / Old. 13 14)	18 15	15 12	...	.	...
35	Purneah ...	18 0	18 0	13 0	...	...	...	17 0	18 0	15 0	19 0	19 0	17 0	...	..	...
36	Maldah ...	18 0	16 0	13 0	...	...		11 0	8 0	12 0	18 0	17 0	16 0	...	...	...
37	Sonthal Perghs.	13 0	13 0	11 0	.	...		13 0	12 0	14 0	17 0	17 0	17 0	...	...	...
	ORISSA.															
38	Cuttack ...	13 2	11 13	13 2			...	10 8	10 8	11 13	21 0	22 5	17 1	...	...	...
39	Pooree ...	13 2	13 2	13 2	...	...	.	17 1	15 12	11 13	23 10	23 10	17 1	...	...	...
40	Balasore ...	15 0	15 0	13 0	13 0	13 0	13 0	13 0	13 0	12 0	19 0	19 0	20 0	..	...	...
	CHOTA NAGPORE															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 0	13 8	13 0	15 0	15 0	...	10 0	10 0	8 0	17 0	18 0	16 0	...	...	...
42	Lohardugga ...	(White. 10 8 / Red. 13 8)	11 12 / 13 12	... / 13 0	13 0	.	...	15 0	17 0	13 0	(Middling. 18 0 / Coarse. 19 0)	(Ordinary. 20 0 / 22 0)	14 8	...	...	...
43	Singbhoom ...	10 0	10 0	1. 0	12 0	15 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	..	...
44	Manbhoom ..	13 5	13 5	13 5	..	...	...	15 0	14 0	14 8	21 0	20 0	21 8	...	...	...

S At Fenny Hát retail price of salt 8 seers per rupee.
T In subdivisions retail prices of salt per rupee are:—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
U At Samastipore in the Tajpore subdivision retail price of salt 11 seers per rupee.
V In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.
W At Bettiah retail price of salt 9½ seers per rupee.

CALCUTTA,
The 25th February, 1890.

Station Bazars of the Districts of Bengal on the 15th February 1890—(concluded).

Indian-corn or Maize (*Zea Mays.*)			Arhar or thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 80 seers. Salt			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
...	...	...	...	...	...	110 0	110 0	108 0	9 0	9 0	9 8	4 4 0	4 0 0	4 0 0	Chittagong.
...	...	..	8 0	7 0	...		...	...	S 9 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
.	...	...	8 6½	8 6½	9 0	...	...	...	8 14	8 14	8 0	4 8 0	4 8 0	4 6 0	Tipperah.
..	...	...	...	...	...	32 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR.
23 0	22 8	21 8	21 0	21 8	24 0	130 0	130 0	130 0	10 0	10 0	10 0	3 13 6	3 14 0	3 12 6	Patna.
...	...	...	20 0	19 0	18 0	160 0	160 0	200 0	9 2	9 2	8 12	4 2 0	4 2 0	4 2 9	Gya.
...	...	...	19 0	19 0	14 0	160 0	140 0	160 0	T 10 0	9 12	10 0	3 15 0	3 15 6	4 0 0	Shahabad.
23 0	24 3	18 0	17 9	16 8	21 0	200 0	209 0	176 0	U 10 4	10 0	11 0	3 14 0	3 12 0	3 10 3	Durbhunga.
26 0	26 0	17 0	18 0	18 0	20 0	160 0	160 0	160 0	V 10 0	10 0	10 0	4 0 0	4 0 0	3 12 0	Mozufferpore
23 0	21 12	20 12	19 8	19 8	20 12	160 0	160 0	160 0	10 0	9 8	10 0	4 0 0	4 0 0	3 15 0	Sarun.
24 0	24 8	18 0	17 0	17 8	22 0	160 0	160 0	160 0	W 10 0	10 0	9 8	4 1 0	4 1 0	4 1 0	Chumparun
21 0	22 1	16 4	16 12	16 12	17 5	147 0	147 0	147 0	X 9 11	9 11	9 8	4 0 0	4 0 0	4 0 0	Monghyr.
22 6	22 11	17 0	16 6	17 11	17 0	176 12	164 0	176 8	10 1	10 1	...	3 15 6	3 15 6	4 0 0	Bhagulpore.
...	...	...	16 0	16 0	16 0	130 0	120 0	200 0	Y 9	9 0	9 0	4 7 0	4 7 0	4 5 0	Purneah.
...	...	...	...	.	...	120 0	160 0	120 0	9 0	9 0	10 0	4 2 0	4 4 0	4 0 0	Maldah.
25 0	25 0	19 0	20 0	20 0	23 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Sonthal Perghs.
															ORISSA.
...	...	...	14 7	14 7	17 1	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	15 12	15 12	15 12	80 0	80 0	80 0	Z 11 13	11 13	11 13	3 6 0	3 6 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	Z1 10 0	10 0	8 8	3 14 0	3 14 0	4 4 0	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
21	21 0	18 0	16 0	17 0	16 0	320 0	320 0	320 0	8 0	8 0	8 0	4 6 0	4 6 0	4 4 0	Hazaribagh.
32 0	30 0	16 0	19 12 Small.	17 0	15 0	120 0	140 0	140 0	8 8	8 8	8 8	4 5 0	4 6 0	4 8 0	Lohardugga.
20 0	24 0	...	12 0	12 0	15 0	240 0	240 0	200 0	8 8	8 8	8 0	4 12 0	4 12 0	5 0 0	Singbhoom.
32 0	32 0	26 0	20 0	20 0	16 0	00 0	200 0	200 0	Z2 9 2	9 2	9 0	4 2 0	4 2 6	4 2 0	Manbhoom.

X In subdivisions retail prices of salt per rupee are:- Begusarai 9½ seers and Jamui 9 seers.
Y At Kishengunge retail price of salt 8 seers per rupee.
Z In the Khoordah subdivision retail price of salt 11 seers per rupee.
Z1 At Bhudruck retail price of salt 9 seers per rupee.
Z2 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 10 11	2 10 9	2 15 0	2 1 8	1 15 11	2 7 0	4 2 7	4 2 7	3 15 4	2 10 3	2 10 1	2 7 3
2	Serajgunge ...	2 2 0	2 4 0	2 10 0	...	...	...	4 10 0	5 8 0	3 14 0	2 12 0	2 10 0	2 10 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	2 0 0	2 13 0	2 14 0	2 10 0	2 7 0	2 7 0	2 5 0
4	Naraingunge	...	...	...	...	...	...	2 12 0	3 0 0	2 6 0	2 8 0	2 12 0	2 4 0
5	Chittagong ...	3 8	3 8 0	3 9 0	...	...	...	3 4 0	3 8 0	3 4 0	2 8 6	2 9 0	2 10 0
6	Patna ...	Red. 2 4 0 / White. 2 8 0	Red. 2 4 0 / White. 2 8 0	... / 2 2 0	1 10 6	1 10 0	1 12 0	3 12 0	3 12 0	3 8 0	2 1 0	2 4 0	2 7 0
7	Balasore ...	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	2 0 0	2 0 0	1 12 0
8	Poorce ...	...	...	...	...	...	...	...	...	...	1 12 0	1 12 0	2 2 6
9	Cuttack ...	3 0 0	3 4 0	3 0 0	...	...	...	3 10 0	3 0 0	3 4 0	1 11 0	1 14 0	2 0 0

CALCUTTA,
The 25th February, 1890.

in the undermentioned Marts of Bengal on the 15th February 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum*)			INDIAN-CORN OR MAIZE. (*Zea Mays*)			ARHAR OR THUR CAJAN PEA (*Cajanus indicus.*)			FIREWOOD			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 4	2 2 8	2 7 2	1 14 6	1 15 0	2 4 0	1 15 11	1 15 10	2 2 8	0 5 6	0 5 6	0 5 9	3 11 0	3 11 0	3 9 7	Calcutta.
2 4 0	2 11 0	3 7 0	...	...	...	...	...	...	...	...	...	3 12 0	4 0 0	3 12 0	Serajgunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 4 0	4 0 0	Dacca.
3 0 0	3 2 0	3 0 0	...	...	...	3 2 0	3 4 0	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
3 0 0	3 0 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	4 4 0	4 0 0	4 0 0	Chittagong.
1 9 6	1 11 6	2 0 0	1 10 6	1 11 0	1 12 6	1 13 6	1 13 0	1 10 0	0 5 0	0 5 0	0 5 0	3 13 6	3 14 0	3 12 6	Patna.
2 12 0	2 12 0	3 0 0	...	.	.	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 4 0	Balasore.
..	..	..	..	..	.	...	.	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
2 12 0	2 8 0	2 0 0	...	...	...	2 12 0	2 12 0	2 0 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree	29·898	29·911	—	SW	175	86·2	19th Feb.	?	?	84·6	?	?	?	75·7
		Gopalpore	29·887	29·919	—·093	NW	291	84·2	19th ,,	65·9	15th Feb.	82·8	71·2	77·0	+0·9	76·1
		False Point	29·891	29·913	—·117	W	237	86·4	20th ,,	61·0	19th ,,	84·5	66·9	75·7	+1·8	73·3
	Cuttack	Cuttack	29·844	29·927	—·006	Calm	33·7	95·9	18th, 21st Feb	62·8	15th ,,	93·9	66·9	80·4	+2·4	71·8
	Balasore	Balasore	29·850	29·911	—·129	North-easterly.	65·2	94·4	18th ,,	61·6	19th ,,	90·8	65·0	77·9	+5·9	69·4
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·888	29·915	—·109	Variable	27·4	86·2	20th ,,	65·4	18th ,,	83·0	69·8	76·4	+2·8	75·0
	Midnapore	Midnapore	29·762	29·918	—·121	Variable	65·3	95·3	18th ,,	61·2	15th, 19th Feb	92·0	63·6	77·8	+5·6	69·2
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·889	29·911	—·118	Calm	93	88·5	18th ,,	59·3	19th ,,	85·4	64·6	75·0	+3·9	69·5
	Burdwan	Burdwan	29·804	29·908	—·124	Westerly	38·3	92·0	18th, 19th Feb.	57·9	19th ,,	90·0	61·8	75·9	+5·3	66·9
	Bankoora	Bankoora	29·884	29·807	—·114	Calm	55·0	92·7	18th ,,	57·8	15th ,,	90·0	61·7	75·8	+5·4	68·0
	Beerbhoom / West Burdwan	Raneegunge	29·877	29·924	—·11	NW	53·4	93·6	18th ,,	57·0	15th ,,	90·4	60·9	75·6	+5·4	66·3
	Moorshedabad	Berhampore	29·837	29·908	—·124	NW	43·5	91·1	18th ,,	55·7	16th ,,	87·2	58·7	73·0	+4·0	64·4
	Nuddea	Krishnaghur	29·865	29·933	—·091	WSW	87·1	90·9	18th ,,	51·5	15th ,,	86·3	58·4	72·3	+3·0	68·2
	Jessore / Khoolna	Jessore	29·871	29·906	—·118	Calm	49·2	89·7	18th ,,	50·3	19th ,,	86·3	63·7	75·0	+5·4	67·8
East Bengal.	Chittagong	Chittagong	29·842	29·935	—·098	Westerly	66·6	89·1	21st ,,	58·6	15th, 16th Feb.	84·5	62·1	73·3	+3·0	67·5
	Chittagong Hill Tracts	Demagiri	Observations not received													
	Backergunge	Barrisal	29·904	29·917	—·088	Calm	69·7	86·8	18th Feb.	54·6	15th ,,	84·2	63·6	73·9	+4·0	69·6
	Noakholly	Noakholly	29·889	29·933	—	Variable	82·5	87·0	21st ,,	55·8	15th ,,	83·0	62·5	72·8	—	71·4
	Furreedpore	Furreedpore	29·873	29·915	—·111	SW	64·7	85·5	18th & 21st Feb.	57·0	19th ,,	84·7	61·8	73·2	+5·4	66·4
	Dacca	Dacca	29·876	29·899	—·124	SSW	88·9	89·1	18th ,,	58·8	19th ,,	86·5	64·5	74·5	+4·0	69·0
	Tipperah	Commillah	29·880	29·923	—·095	S	64·3	86·9	21st ,,	57·0	15th ,,	84·9	62·8	73·8	+4·5	68·0
	Mymensingh	Mymensingh	29·847	29·908	—·121	Easterly	61·2	84·0	21st ,,	56·1	19th ,,	82·8	59·9	71·3	+4·7	64·8
North Bengal.	Bogra	Bogra	29·812	29·879	—·119	Calm	43·6	88·3	18th ,,	53·1	16th ,,	85·2	58·8	71·5	+4·5	61·4
	Pubna	Serajgunge	29·841	29·899	—·125	WSW	21·7	87·9	18th ,,	52·9	19th ,,	86·0	56·1	71·1	+4·5	64·3
	Rajshahye	Rampore Beauleah	29·820	29·889	—·104	Variable	57·0	88·3	18th ,,	54·5	16th ,,	85·4	58·3	71·8	+5·7	65·1
	Maldah	Maldah	29·834	29·919	—	NW	56·6	88·6	21st ,,	51·2	16th ,,	86·6	53·8	70·2	—	65·7
	Dinagepore	Dinagepore	29·764	29·891	—·142	SW	59·6	87·1	18th ,,	50·2	16th ,,	85·2	53·5	69·4	+3·7	59·7
	Rungpore	Rungpore	29·778	29·909	—·130	Calm	20·6	85·4	18th ,,	49·8	16th ,,	83·7	55·0	69·3	+6·0	61·1
	Julpigoree / Cooch Behar	Julpigoree	29·596	29·893	—·131	N	66·7	82·9	19th ,,	49·9	19th ,,	76·4	53·3	64·9	+1·7	60·9
	Darjeeling Hill Tracts	Darjeeling	23·896	—	—	WSW	141·9	54·6	19th, 20th Feb.	38·5	21st ,,	53·2	39·9	46·6	+6·0	44·3
North Behar.	Purneah / North Bhagulpore	Purneah	29·765	29·898	—·124	Calm	94·4	84·7	20th, 21st Feb.	49·0	16th ,,	83·3	51·7	67·5	+2·3	59·6
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·732	29·908	—·122	WSW	94·1	84·4	18th Feb.	?	?	83·2	?	?	?	60·5
	Chumparun	Motihari	29·659	29·901	—·109	Variable	183·0	84·2	21st ,,	48·9	15th, 19th Feb.	81·8	50·8	66·3	+3·9	56·8
	Sarun	Chupra	Observations incomplete.													
South Behar.	Shahabad	Dehree / Buxar / Arrah	29·672 / 29·700	29·927 / 29·914	—·114 / —·100	W8W / SW	113·0 / 107·7	83·4 / 80·7	Ditto. 17th ,, / 21st ,,	53·4 / 52·9	15, 18 ,, / 15th ,,	85·5 / 85·0	56·3 / 54·9	70·9 / 70·0	+5·7 / +5·1	62·7 / 61·7
	Gya	Gya	29·534	29·930	—·107	S	99·0	91·2	17th ,,	56·2	16th ,,	87·0	60·0	73·5	+4·5	63·2
	Patna	Bankipore	29·716	29·909	—·131	SW	69·0	85·1	17th, 18th Feb	54·2	15th, 16th Feb.	8·2	56·6	70·4	+5·1	64·5
	South Bhagulpore / Monghyr	Bhagulpore	29·720	29·889	—·120	Calm	18·0	88·7	18th ,,	52·5	16th ,,	86·7	55·6	71·2	+5·3	64·1
	Sonthal Pergunnah	Doomka	29·894	29·915	—	NW	65·0	90·8	18th ,,	53·1	16th ,,	87·3	57·1	72·2	—	63·1
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·875	29·936	—·093	W	187·4	88·0	17th ,,	56·3	18th ,,	83·6	59·3	71·4	+5·5	66·1
	Lohardugga / Manbhoom	Ranchee	27·715	29·924	—·092	Calm	130·4	87·1	17th ,,	56·4	15th & 19th Feb	84·3	58·5	71·4	+4·9	65·7
	Singbhoom	Chyebassa	29·138	29·930	—	Southerly	30·0	93·4	21st ,,	57·2	16th ,,	90·7	61·2	76·0	—	66

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the last stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 21st of February 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK. Mean for district.	OF WEEK. Normal mean.	DISTRICT OBSERVATIONS. RAINFALL. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
83	1·0	Nil	Nil	0·31	Nil	0·69	−0·69	74·94	56·32	+18·62	0·0	0·4	Pooree	Pooree	Orissa.
73	0	Nil											Gopalpore		
90	2·1	Nil											False Point		
79	2·4	Nil	Nil	0·30	Nil	0·73	−0·73	66·39	52·71	+13·68	0·0	0·4	Cuttack	Cuttack	
80	0	Nil	Nil	0·23	Nil	0·82	−0·82	49·96	54·13	−4·17	0·0	0·4	Balasore	Balasore	
88	0·6	Nil	Nil	0·18	Nil	1·10	−1·10	58·57	63·47	−4·90	0·0	0·4	Saugor Island	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
73	0	Nil	Nil	0·21	Nil	0·81	−0·81	46·39	52·38	−5·99	0·0	0·5	Midnapore	Midnapore	
85	0·6	Nil	Nil	0·30	Nil	1·10	−1·10	54·10	52·76	+1·34	0·0	0·5	Calcutta	24-Pergunnahs	
														Howrah	
														Hooghly	
75	1·4	Nil	Nil	0·22	Nil	0·89	−0·89	43·89	47·60	−3·71	0·0	0·4	Burdwan	Burdwan	
50	0	Nil	Nil	0·21	Nil	0·63	−0·63	55·03	52·01	+3·02	0·0	0·3	Bankoora	Bankoora	
59	0	Nil	Nil	0·28	Nil	0·91	−0·91	52·46	52·53	−0·07	0·0	0·5	Raneegunge	Beerbhoom	
														West Burdwan	
64	0	Nil	Nil	0·26	Nil	0·74	−0·74	51·17	51·29	−0·12	0·0	0·4	Berhampore	Moorshedabad ...	East Bengal.
73	0·1	Nil	Nil	0·30	Nil	0·93	−0·92	51·61	50·06	+1·55	0·0	0·4	Krishnaghur	Nuddea	
91	1·7	Nil	Nil	0·27	Nil	0·02	−0·02	54·75	54·14	+0·61	0·0	0·6	Jessore	Jessore	
														Khoolna	
82	3·1	Nil	Nil	0·19	Nil	0·60	−0·60	100·35	114·38	−14·03	0·0	0·4	Chittagong	Chittagong	
			Nil	0·26	Nil	0·74	−0·74	65·17	82·34	−17·17	0·0	0·4	Demagiri	Chittagong Hill Tracts	
92	1·4	Nil	Nil	0·28	Nil	0·90	−0·90	78·41	77·91	+0·50	0·0	0·4	Barrisal	Backergunge	
84	0	Nil	Nil	0·25	Nil	0·89	−0·89	90·82	108·00	−17·18	0·0	0·4	Noakholly	Noakholly	
89	1·4	Nil	Nil	0·37	Nil	0·98	−0·98	61·22	55·70	+5·52	0·0	0·5	Furreedpore	Furreedpore	
86	1·4	Nil	Nil	0·32	Nil	1·01	−1·01	76·19	60·61	+15·58	0·0	0·5	Dacca	Dacca	
87	2·4		Nil	0·23	Nil	0·88	−0·88	56·62	70·19	−13·57	0·0	0·5	Commillah	Tipperah	
84	1·7	Nil	Nil	0·20	Nil	0·83	−0·83	88·78	68·14	+20·64	0·0	0·4	Mymensingh	Mymensingh	
81	0	Nil	Nil	0·30	Nil	0·77	−0·77	65·62	58·00	+7·62	0·0	0·5	Bogra	Bogra	
84	0	Nil	Nil	0·36	Nil	0·98	−0·98	55·37	54·33	+1·04	0·0	0·5	Serajgunge	Pubna	North Bengal.
74	0·1	Nil	Nil	0·25	Nil	0·09	−0·09	54·35	54·57	−0·22	0·0	0·4	Rampore Beauleah	Rajshahye	
64	0	Nil	Nil	0·23	Nil	0·58	−0·58	39·76	54·80	−15·04	0·0	0·4	Maldah	Maldah	
76	0·1	Nil	Nil	0·20	Nil	0·47	−0·47	57·49	57·87	−0·38	0·0	0·4	Dinagepore	Dinagepore	
81	0	Nil	Nil	0·15	Nil	0·41	−0·41	85·87	74·24	+11·63	0·0	0·4	Rungpore	Rungpore	
85	0	Nil	Nil	0·18	Nil	0·37	−0·37	117·73	111·62	+6·11	0·0	0·5	Julpigoree	Julpigoree	
														Cooch Behar	
83	4·6	Nil	Nil	0·23	Nil	0·54	−0·54	133·46	121·91	+11·55	0·0	0·5	Darjeeling	Darjeeling Hill Tracts	
60	0·1	Nil	Nil	0·11	Nil	0·48	−0·48	75·00	59·16	+15·84	0·0	0·4	Purneah	Purneah	
			Nil	0·07	Nil	0·36	−0·36	48·83	43·90	+4·93	0·0	0·3	Muzufferpore	North Bhagulpore ...	
														Muzufferpore	
66	0·3	Nil	Nil	0·09	Nil	0·40	−0·40	52·11	45·12	+6·99	0·0	0·3	Durbhunga	Durbhunga	North Behar.
75	1·7	Nil	Nil	0·06	Nil	0·37	−0·37	63·96	47·16	+16·80	0·0	0·3	Motihari	Chumparun	
			Nil	0·16	Nil	0·40	−0·40	40·13	43·38	−3·25	0·0	0·3	Chupra	Sarun	
53	1·0	Nil	Nil	0·10	Nil	0·37	−0·37	40·07	40·45	−0·38	0·0	0·2	Dehree	Shahabad	South Behar.
59	1·3	Nil											Buxar		
													Arrah		
67	2·1	Nil	Nil	0·11	Nil	0·39	−0·39	37·07	42·01	−4·94	0·0	0·3	Gya	Gya	
52	1·0	Nil	Nil	0·10	Nil	0·44	−0·44	43·49	41·76	+1·73	0·0	0·3	Bankipore	Patna	
54	0·3	Nil	Nil	0·19	Nil	0·49	−0·49	42·43	43·66	−1·23	0·0	0·4	Bhagulpore	South Bhagulpore ...	
														Monghyr	
57	0	Nil	Nil	0·11	Nil	0·44	−0·44	54·15	51·23	+2·92	0·0	0·3	Doomka	Sonthal Pergunnahs ...	
39	1·1	Nil	Nil	0·16	Nil	0·53	−0·53	43·03	50·99	−7·96	0·0	0·3	Hazaribagh	Hazaribagh	Chutia Nagpur.
55	0·0	Nil	Nil	0·17	Nil	0·63	−0·63	44·34	49·76	−5·42	0·0	0·4	Ranchi	Lohardugga	
			Nil	0·16	Nil	0·86	−0·86	38·30	47·78	−9·48	0·0	0·4		Manbhoom	
63	0	Nil	Nil	0·23	Nil	0·80	−0·80	48·76	52·38	−3·62	0·0	0·5	Chyebassa	Singbhoom	

ten years. Th · variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater,
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of February 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 15th February.	Sunday, 16th February.	Monday, 17th February.	Tuesday, 18th February.	Wednesday, 19th February.	Thursday, 20th February.	Friday, 21st February.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date
Orissa ..	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 81	80·71	59·13
		Khurdah ...	.....	.....	.....	.. ..	.....	... ..	. .	Nil	Nil	Nil	0·52	76·57	57·03
		Banpur ...	.....	... ..	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0 71	65·50	49·74
		False Point ...	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 71	77·00	54·59
		Gop ...	.....	.....	.....	... ..	. ...	.....	.....	Nil	Nil	Nil	?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·55	74·49	47·68
		Banki ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·67	62·43	50·17
		Cuttack ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0 70	75·18	57 05
		Kendrapara ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·71	72 24	53 94
		Jajpore ...	.....	.....	.....	.....	.....	.....	... .	Nil	Nil	Nil	1·90	57·04	54·45
		Dharmsala ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore .	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	?	73·47	?
	Balasore	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·92	55·04	51·39
		Bhuddruck ...	.....	.....	.....	. ...	.....	.....	.....	Nil	Nil	Nil	0·92	57 66	53·81
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	46·05	51 70
		Balasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·18	46·61	50 07
		Jellasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	59·59	54·36
		Baripodah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·66	54·79	54·43
South-West Bengal.	Midnapore ..	Contai ..	.....	.....	.....	.....	.....	. ....	.....	Nil	Nil	Nil	1·02	55·18	62·29
		Saugor Island	.....	.....	.....	.....	. ....	.....	... ..	Nil	Nil	Nil	1 03	56·74	68·13
		Tumlook .	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	49·60	52 20
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·78	46·26	49 69
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 62	45 30	55·18
		Kukrahaty ...	.....	.....	.....	.....	.....	... ..	... ..	Nil	Nil	Nil	?	59·84	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour .	.....	.. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·25	63·79	59·79
		Canning Town	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·85	?
		Alipore Jail ..	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·31	59·87	57·16
		Barrackpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·21	52 12	51·07
		Dum-Dum ...	.....	.. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·95	65·48	52·65
		Baraset .	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	1·18	58·71	51·75
		Busseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 91	62·61	55·46
	Howrah .	Howrah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·95	59·64	53·86
		Mohesruka .. (*Colobertah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·04	55·04	53 04
	Hooghly	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·16	55·63	51 29
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	57·53	49·30
		Jehanabad ...	... ..	.. ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	1 18	41 61	56·23
	Burdwan ...	Culna ..	.....	.. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·83	41·32	46·18
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·77	47·35	48·59
		Cutwa ...	.....	.....	... .	.....	.....	... ..	.....	Nil	Nil	Nil	1·06	43·11	48·88
		Raneegunge ..	.....	.....	.....	.. ...	.....	.....	.....	Nil	Nil	Nil	1·09	55·90	50·11
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Bankoora ..	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·71	50·56	52·21
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·76	57·49	52·74
		Mallara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46		52·39
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	65·91	54·79
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	?	40·44	?
		Gangajalghati ...	.....	.. ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59 17	?
		Ensore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·44	?
	Beerbhoom	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·86	59·06	54·37
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	47·07	55·21
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·76	47 78	52·30
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·04	?
		Murarai ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	53 10	?
	Nuddea ..	Ranaghat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·85	50·10	47·89
		Kishnaghur ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	42·95	46 93
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·01	49·86	52·00
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·94	53·15	48·42
		Koushtea ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·95	56·06	55·36
	Khoolna ..	Satkhira ...	.....	.....	.. ...	.....	.....	.....	.....	Nil	Nil	Nil	0·83	54·54	55·99
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·14	55 48	62·04
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	56·88	55·71
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	52·01	46 86
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·92	53·90	55·27
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·96	50·74	54·31
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 86	56·90	50·03
		Bongong ...	.....	.....	.....	.....	.....	.....	.. ...	Nil	Nil	Nil	0·91	47·64	52·07
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·82	55·38	51·90
		Berhampore...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·89	46·28	53·19
		Lalbagh ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·66	47·13	51·41
		Azimgunge ...	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·72	?	51·92
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	55·01	49·81
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	59·08	51·87
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·89	?
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·06	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	123·59	126·29
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	77·08	95·14
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63 66	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·92	63·12	54·66
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	67·20	51·05
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·96	57·46	58·75
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·12	72·64	71·14
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·83	73·21	66·58
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	50·09	53·55

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of February 1890—*contd.*

Meteorological Division.	District.	Station.	Rainfall: Saturday, 15th February.	Sunday, 16th February.	Monday, 17th February.	Tuesday, 18th February.	Wednesday, 19th February.	Thursday, 20th February.	Friday, 21st February.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
EAST BENGAL —*contd.*		*Gowraddi*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61 31	?
		Baupbal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	93·12	?
	Noakholly ...	Noakholly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	102·58	108·48
		Feuny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·09	79·03	107 81
		Hartshpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	81·32	?
		Ramgunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·77	62·09	56·32
		Furreedpore..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1 08	65 60	57·32
		Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	68·05	54 07
	Dacca ..	Munshigange	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·09	77·51	71·16
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 90	70·45	59·28
		Naraingange	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·05	91·14	60 83
		Manekgange	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·09	69·67	51 00
		Joydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Hill Tipperah Tipperah ...	Agartola ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 04	44·38	62 49
		Comilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·79	62·07	76·09
		Chandpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	65·97	76·58
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·08	53·12	62 79
		Ramchandrapore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·83	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·39	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·73	?
		Kasba ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62 44	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60 48	?
	Mymensingh..	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	70·30	70·98
		Atia (*Tangail*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1 02	62·69	56·45
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·87	97 93	74·85
		Jamalpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·08	80·01	65·19
		Netrikona ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	126 47	73 19
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	150 28	?
		ShereporeTown	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	88·17	?
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·08	?
NORTH BENGAL.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	50·20	54·57
		Seraigunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·03	60·51	53·89
	Bogra ...	Sherepore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	62·07	58·31
		Nowkhilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 79	62·44	54·99
		Bogra .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·83	71·33	61 42
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·82	65·98	59 34
	Rajshahye ...	Beauleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·77	46·34	53·68
		Nattore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	58·84	55 81
		Naogaon .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	57·87	51 85
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·72	?
		Manda .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	50·53	52 23
		Chanchal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	28·98	51·35
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·79	?
		Silgunj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·77	?
	Dinagepore ...	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	53·63	57 03
		Churamon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	51·82	53 05
		Raigunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	52·37	58 31
		Dinagepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	68·33	63 91
		Balorghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	61 29	51·77
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	87·81	?
	Rungpore ..	Bhawanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·81	58·30	62·17
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 83	74·98	74·88
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 81	91 62	73 65
		Bogdogra (*Nilphamari*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	68·49	66 65
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·10	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	123·45	117 27
		Alipore Door	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·58	?
		Faliacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	128·33	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	90·94	?
		Bhagalpore (Nagrakatta).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	139·22	?
	Cooch Behar	Dinhatta ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	98·83	96·79
		Cooch Behar..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	178 89	118·58
		Mickilgunge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	132·40	106·28
		Matabhanga....	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	118·03	1·3·06
	Darjeeling Hill	Buxa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	192·37	193 .3
		Silliguri ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	121·03	1·8·09
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·01	0·64	126·28	109 39
		Kalimpong ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·52	92·1o	84·49
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	170·23	?
NORTH BEHAR	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	103·67	70·87
		Arrareah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·62	79·75	66·20
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	63·47	62·18
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Kataganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	60·85	56·06
		Soopool ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	67·26	46·57
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·16	?
	Durbhunga ...	Rajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	42·27	43 61
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	50·24	45·27
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	63·09	45 47
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69 96	?
		Rashera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	55·45	53 39
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	48 47	46 07
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	42·57	42 47
		Para ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·69	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·03	?
		Sunhar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·14	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of February 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 15th February.	Sunday, 16th February.	Monday, 17th February.	Tuesday, 18th February.	Wednesday, 19th February.	Thursday, 20th February.	Friday, 21st February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar —concluded	Chumparun	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	78·33	45·19
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	52·57	48·57
		Bucaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·24	?
		Burhurwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·70	?
	Sarun	Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	35·48	44·07
		Sewan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	44·20	44·46
		Chuprah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	40·74	40·93
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	47·41	38·93
		Dehree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	41·00	40·26
		Bhaboosh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	38·16	41·43
		Sasseram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	29·41	41·14
		Arrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	42·69	40·73
		Mohaniah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	38·48	43·23
		Gya	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	39·85	43·13
		Nowadah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	39·59	40·59
		Jehanabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	33·40	40·54
		Arwal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	?
		Daudnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·69	?
		Sherghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·39	?
		Raianli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna	Patna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	31·49	42·36
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	45·53	41·66
		Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	41·08	42·48
		Barrh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	35·81	40·19
		Bukram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·29	?
		Hilsa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	35·21	?
	Monghyr	Begoosserai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·52	47·62	40·74
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	41·67	47·07
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 52	39·48	43·56
		Gogri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	?
		Sheikpura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	?
	South Bhagulpore	Bhagulpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	45 06	42·70
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	38·34	44·23
		Kalgong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	?
		Bangaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	39·90	32·50
		Godda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	49·04	46·04
		Pakour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	75·59	55·67
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	56·77	53·93
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	46·40	51·10
		Jamtara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	46·21	40·46
		Mohagama	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	36·41	?
		Nanahat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·87	?
Chutia Nagpur.	Hazaribagh	Pachamba (*Giridi*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	38·90	48·12
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	49·10	47·76
		Somtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	36·24	47·31
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47		48·87
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 46	43·00	63·30
		Barki	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·38	?
		Chatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·04	?
		Karegdeha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·35	?
		Ramghar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Lohardugga	Lohardugga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	45·24	52·02
		Ranchi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	55 61	53 06
		Palamow	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	34·16	43·84
		Sulli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	33·80	?
		Balumat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hussenabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	?
		Garwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28 77	?
	Singbhoom	Chyebasa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	46·76	52·50
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·50	?
		Ghatsilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	?
		Raharagura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	?
	Manbhoom	Purulia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	45·58	49·89
		Gobindpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	39·19	45·84
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	?
		Jhalda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·43	?
		Oass	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·56	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 25th February* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21ST FEBRUARY 1890.

In the meteorology of the previous week it was noticed that there had been a slow but steady disappearance of the north-east monsoon or cold-weather conditions with the gradual establishment of the conditions which obtain just previous to the setting in of the hot weather. Pressure at the close of that week was decidedly low, while temperature was rather largely in excess of the normal, and the northerly component in the wind directions was growing steadily more feeble. The general result of the changes which have taken place this week has been to practically almost entirely efface the conditions which obtain in the cold season and to establish those of the hot weather. Winds have been generally light and variable during the week, with a steadily increasing southerly component in them, temperature on the whole has risen steadily, and pressure has continued very low for the season. The only period during the week when there was any break in the steady establishment of the hot season conditions was on the 17th and 18th, when a barometric depression passed through Bengal. This depression had first been observed near Jacobabad on the morning of the 15th and it moved in an easterly direction, but though the barometric depression at its centre was decidedly large, yet it failed to give any rain to Bengal in its passage through it. When the depression commenced to advance over Bengal, temperature was as usual exceptionally high, but in its rear temperature fell very distinctly, though the effect was only very temporary; and again at the close of the week temperature generally averaged from 3° to 6° above the normal. With the absence of any disturbance, therefore, which was sufficiently intense to give local storms, again the whole province has been quite rainless for the period under review.

Pressure—Has been in defect of the normal almost throughout the week, and the average defect in different districts has varied from about nine to twelve-hundredths of an inch.

Temperature.—The mean temperature of the whole province for the week has been between 4° and 5° above the normal, the excess being largest in South Behar and Chutia Nagpur, where it has exceeded five degrees. The rapid increase in temperature during the week is clearly seen in the figures representing the average mean temperature in the various districts, and thus in Orissa the rise during this period has equalled 4·2°, in South-West Bengal it has been 5·9°, in East Bengal 6·0°, in North Bengal 4·1°, in North Behar 3·6°, in South Behar 3·9°, and in Chutia Nagpur 4·0°. The actual temperatures during the week, the range from day to night, and their variation from their normal values are best seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with their normal values. It will be seen that both day and night temperatures have been almost equally in excess, and that at some stations the average temperatures have even been as much as about 6° and 7° above the normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 21st February 1890.

	Normal mean maximum temperature for the week ending 21st February.	Actual mean maximum temperature for the week ending 21st February 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 21st February.	Actual mean minimum temperature for the week ending 21st February 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 21st February.	Actual mean daily temperature for the week ending 21st February 1890.	Variation of actual mean from the normal.
Cuttack	90·3	93·9	+3·6	65·5	66·9	+1·4	77·9	80 4	+2·5
Calcutta	82 0	85·4	+3·4	60 3	64·6	+4·3	71 2	75·0	+3 8
Dacca	82·3	86·5	+4·2	57·8	62·5	+4·7	70·1	74·5	+4 4
Burdwan	83·0	90·0	+7·0	57·8	61·8	+4·0	70·4	75·9	+5 5
Patna	78·2	84·2	+6·0	52·5	56·6	+4 1	65 4	70·4	+5·0
Gya	81·9	87 0	+5·1	56·2	60·0	+3·8	69·1	73 5	+4 4
Purneah	79 5	83 3	+3·8	51·4	51 7	+0·3	65·5	67·5	+2·0
Hazaribagh	77·7	83 6	+5·9	54·2	59·3	+5 1	66·0	71·4	+5 4
Darjeeling	47·4	53·2	+5 8	34·2	39 9	+5 7	40·8	46·6	+5·8

Rainfall—Has been entirely absent throughout the whole province for the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of February 1890 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average	Average	Normal average.
Orissa	95·9°	61·0°	88·0°	67·5°	77·8°	+2·5°	Nil	0·27	−0·27	0·0	0·4	−0·4	Nil	0·75	62·10	54·21
South-West Bengal ...	95·3	51·5	88·1	62·5	75·3	+4·8	Nil	0·26	−0·26	0·0	0·4	−0·4	Nil	0·91	52·81	52·85
East Bengal	89·1	54·6?	84·4	62·2	73·3	+4·4	Nil	0·26	−0·26	0·0	0·5	−0·5	Nil	0·88	76·56	75·16
North Bengal	88·0	49·8	84·2	55·2	69·7	+4·4	Nil	0·22	−0·22	0·0	0·4	−0·4	Nil	0·55	73·54	70·98
North Behar*	84·7	48·9	82·8	51·2	66·0	+3·1	Nil	0·10	−0·10	0·0	0·3	−0·3	Nil	0·41	57·89	49·20
South Behar*	91·2	52·5	86·0	56·8	71·4	+5·1	Nil	0·12	−0·12	0·0	0·3	−0·3	Nil	0·41	44·16	44·27
Chutia Nagpur	88·0°	56·3°	83·9°	58·9°	71·4°	+5·2°	Nil	0·17	−0·17	0·0	0·4	−0·4	Nil	0·64	43·08	5

* Pooree, Chuprs, Dehree and Chyebassa not included.

Meteorological Office, Bengal; A. Pedler,
The 25th February 1890. *Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd February 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Feb. 1890 ...	16th ...	29·849	75·7	82·9	14·5	68·4	77·6	72·8	·743	70·3	79	Nil
,, ,, ...	17th ...	·806	79·4	89·0	19·2	69·8	79·6	72·6	·709	68·9	70	.....
,, ,, ...	18th ...	·959	76·2	86·4	20·4	66·0	78·6	63·6	·389	52·0	40	.....
,, ,, ...	19th ...	30·018	73·5	86·3	25·6	60·7	79·6	63·8	·380	51·4	37	.....
,, ,, ...	20th ...	29 999	75·6	87·8	24·4	63·4	79·6	68 6	·551	61·7	55	.....
,, ,, ...	21st ...	30 002	77·5	89·0	23 1	65·9	80·4	68·6	·542	61·2	52	.....
,, ,, ...	22nd ...	29 982	77·2	89·6	24·9	64·7	79·6	67·6	·516	59·8	51	.....

		Inches.
The mean 10 A.M. pressure of the seven days		29·945
		°
The mean temperature of the seven days		76·4
The extreme variation of temperature		28·9
The maximum temperature		89·6
		%
The mean 10 A.M. relative humidity of the seven days		55
		Inches.
The total fall of rain from 16th to 22nd February 1890		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 24th February 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 16th to 22nd February 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1890		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb.	16th	137·5	7·9	29·756	75·4	86·4	18·7	67·7	71·0	0·702	68·7	81	SSW and S by W ...	137	Nil	Chiefly cloudy, ⌓.
,,	17th	139·5	8·9	·735	77·1	88·5	19·0	69·5	71·1	·681	67·8	74	SW and SSW	181	,,	Clear.
,,	18th	138·5	7·3	·872	74·6	85·5	19·5	66·0	66·9	·566	62·4	67	N, variable and calm	63	,,	Chiefly clear, ⌓, =.
,,	19th	140·2	8·1	·917	72·4	85·2	25·9	59·3	62·4	·432	54·9	58	NNW and variable	44	,,	Clear.
,,	20th	139·0	8·1	·910	74·2	86·5	25·1	61·4	66·7	·557	62·0	67	S and WSW ..	80	,,	Clear.
,,	21st	143·4	8·9	·889	75·8	88·5	24·6	63·9	66·3	·519	60·0	62	SW by W and variable.	81	,,	Clear.
,,	22nd	142·6	8·6	·901	75·1	88·6	25·5	63·1	66·4	·533	60·8	61	SW by S and variable.	46	,,	Clear, ⌓.

	Inches.
The mean pressure of the seven days	29·854
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·948
	Hours.
The total number of hours of bright sunshine	57·8
The maximum possible number of hours of sunshine	80·8
	°
The mean temperature of the seven days	74·9
The average temperature of the corresponding period for 24 years, S.-G.'s Office	74·0
The extreme variation of temperature	29·3
The maximum temperature	88·6
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	67
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	66
	Inches.
The total fall of rain from 16th to 22nd February 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·25
The total fall from 1st January to 22nd February 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·29

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, = fog.

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 24th February 1890.

MEMORANDUM.

DURING the week ending 8th February 1890, the returns of the vital statistics of the principal Municipalities in Bengal presented the following results :—

1. The birth-rate amounted to 23·3 per 1,000 of population, against 21·7 per 1,000 in the preceding week ending 1st February, showing an increase in the registration, and the death-rate to 23·9 per 1,000, against very nearly the same ratio, viz., 23·7 per 1,000.

2. The following Municipalities returned the highest proportions of births and deaths —

Births.

	Ratio per *mille.*
Darjiling	51·9
Comillah	50·1
Narainganj	37·3
Durbhanga	36·2
Monghyr	35·3
Bhagulpore	31·7
Gya	31·4

Deaths.

	Ratio per *mille.*
Poori	128·0
Darjiling	59·3
Jessore	49·0
Serampore	47·1
Hughli and Chinsurah ...	45·9
Purneah	38·1
Narainganj	37 3
Burdwan	35·1
Gya	34 8
Midnapore	31·0

3. The mortality from the several death-causes was as follows in comparison with that in the preceding week :—

	Ratio per *mille* during the weeks ending—	
	8th February 1890.	1st February 1890.
Cholera	2·3	2·2
Small-pox	1·1	·6
Fever	10·3	9·3
Bowel-complaints	3·3	3·9
Injury	·5	·4
Other causes	6·1	7·3

The only noticeable point indicated by the above figures is that there was a noticeable increase of mortality from fever.

4. The following Municipalities suffered in a more marked degree than the others from the diseases mentioned in the foregoing table :—

Cholera.

	Ratio per *mille.*
Poori ...	33·6
Hughli & Chinsurah ...	8·2
Serampore ...	7·8
Howrah ...	5·7

Small-pox.

	Ratio per *mille.*
Poori...	39·8

Fever.

	Ratio per *mille.*
Darjiling ...	44·5
Purneah ...	31·2
Gya ...	21·8
Hughli and Chinsurah...	21·3

Bowel-complaints.

	Ratio per *mille.*
Serampore ...	17 7
Burdwan ...	10·7
Poori ...	10·5

Other causes.

	Ratio per *mille.*
Poori ...	25·2
Midnapore ...	18·6
Bali ...	17·5
Narainganj ...	16·6
Gya ...	11·6

Small-pox unfortunately continued to rage in Poori town with much severity.

5. The mortality referable to *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille.*
Males	26 3
Females	21·3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	124

According to Class

	Ratio per *mille.*
Christians	29·9
Hindus	24 9
Mahomedans ...	21·4

According to Age.

	Ratio per *mille.*
Under 1 year ...	141·3
1 and under 5 years ...	24·6
5 „ 10 „ ...	15·1
10 „ 15 „ ...	13·1
15 „ 20 „ ...	13·5
20 „ 30 „ ...	15 3
30 „ 40 „ ...	18·1
40 „ 50 „ ...	18 3
50 „ 60 „ ...	26·8
60 years and upwards ...	76·9

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 24th February 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
DISTRICTS.	NAMES OF MUNICIPALITIES.				NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,663	16,017	34,680	8	3	8	7·6	4·6	12·3	166	...	...	11	7	...	5	23	...	...	16·8	10·7	..	7·6	35·1	33·6	12	11	34·5	35·7	97
Midnapore ...	Midnapore ..	16,927	16,633	33,560	8	6	14	12·4	9·3	21·7	133	1	...	3	3	1	12	20	1·5	...	4·6	4·6	1·5	18·6	31·0	31·0	9	11	27·6	34·4	79
Hughli ...	Hughli and Chinsurah.	15,888	15,829	31,687	7	8	15	11·3	13·1	24·6	87	5	...	13	6	1	3	28	8·2	...	21·3	9·8	1·6	4·9	45·9	44·3	16	12	32·5	39·4	133
Serampore ...	Serampore ...	13,589	12,937	26,496	7	5	12	13·7	9·8	23·6	140	4	...	7	9	...	4	24	7·8	...	13·7	17·7	...	7·8	47·1	58·9	11	13	42·2	52·2	81
	Utterpara	3,046	2,464	5,510	1	1	2	9·4	9·4	18·9	100	...	...	...	1	...	1	2	...	...	...	9·4	...	9·4	18·9	37·7	2	...	34·1		No female death.
Howrah ...	Howrah	53,153	37,666	90,818	16	24	40	16·3	12·6	22·9	82	10	...	11	6	1	6	34	5·7	...	6·3	3·4	·6	3·4	19·5	33·8	18	16	17·6	22·1	77
	Bali	7,836	6,979	14,815	3	3	6	10·5	10·5	21·1	100	...	...	2	...	1	5	8	...	...	7·0	...	3·5	17·5	28·1	24·6	6	2	39·8	14·9	279
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	3	2	5	6·7	3·8	9·5	150	...	1	...	1	...	1	3	...	1·9	...	1·9	...	1·9	5·7	22·7	2	1	7·8	3·7	233
	Ranaghat	4,623	4,655	8,683	...	1	1	...	6·0	6·0	No male birth.	...	...	2	...	...	...	2	...	...	12·0	...	...	...	12·0	6·0	2	...	25·8	...	No female death.
	Santipore	13,708	13,979	29,687	2	3	5	3·5	5·3	8·8	66	...	...	6	...	...	1	7	...	...	10·5	...	...	1·7	13·3	1·7	5	2	19·0	6·5	316
Jessore ...	Jessore	4,830	3,666	8,496	2	1	3	12·3	6·1	18·4	200	1	...	3	1	...	3	8	6·1	...	18·4	6·1	...	18·4	49·0	55·1	5	3	53·8	42·6	126
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	5	10	13·1	13·1	26·3	100	...	...	5	...	...	2	7	...	...	13·1	...	...	5·3	18·4	26·3	5	2	24·2	11·5	318
Darjiling ...	Darjiling	4,579	2,439	7,018	1	6	7	7·4	44·5	51·9	16	...	...	6	...	...	2	8	...	...	44·5	...	...	14·8	59·3	22·2	5	3	56·3	64·0	87
Dacca ...	Dacca	42,782	37,379	80,161	11	16	27	7·1	10·4	17·5	69	...	1	9	5	1	6	22	...	·6	5·8	3·8	·6	3·9	14·3	15·6	11	11	13·4	15·3	87
	Narainganj ...	7,695	4,956	12,651	1	8	9	4·1	33·1	37·3	12	1	...	3	...	1	4	9	4·1	...	13·4	...	4·1	16·6	37·3	41·4	5	4	34·2	42·0	81
Chittagong ...	Chittagong ...	13,340	8,799	22,139	2	2	4	4·7	4·7	9·4	100	...	...	5	3	...	2	10	...	...	11·7	7·0	...	4·7	23·5	21·1	6	4	23·4	23·7	100
Tipperah ...	Comillah	8,153	5,353	13,506	7	6	13	27·0	23·1	50·1	116	2	...	3	...	...	2	7	7·7	...	11·6	...	...	7·7	27·0	38·5	3	4	19·1	38·9	50
Patna	Patna City ...	78,762	81,475	160,237	28	23	51	9·1	7·5	16·6	121	4	...	25	5	1	4	39	1·3	...	8·1	1·6	·3	1·3	12·7	6·8	22	17	14·5	10·8	140
Gya	Gya	38,290	37,831	76,121	19	27	46	13·0	18·4	31·4	70	2	...	32	...	...	17	51	1·4	...	21·8	...	...	11·6	34·8	30·7	29	22	39·4	30·2	130
Shahabad ...	Arrah	20,960	22,505	43,465	11	8	19	13·2	9·6	22·7	137	...	1	9	2	1	1	14	...	1·2	10·7	2·4	1·2	1·2	16·7	7·2	5	9	12·4	20·8	60
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	9	6	15	10·9	7·3	18·2	150	..	...	1	1	2	5	9	...	...	1·2	1·2	2·4	6·1	10·9	14·6	3	6	6·6	15·9	40
Durbhanga ...	Durbhanga ...	33,774	33,322	66,096	20	26	46	15·7	20·5	36·2	77	...	...	15	3	...	9	27	...	...	11·8	3·3	...	7·1	21·2	20·5	19	8	29·3	12·9	241
Saran	Chupra	25,116	26,554	51,670	17	9	26	17·1	9·1	26·2	188	...	...	2	2	...	4	9	...	...	2·0	3·0	...	4·0	9·1	12·1	6	3	12·4	5·9	240
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	24	11	35	21·7	9·9	31·7	218	...	...	11	...	...	11	22	...	...	9·9	...	...	9·9	19·9	22·6	16	6	28·1	11·2	254
Monghyr ...	Monghyr	28,154	29,366	57,520	17	22	39	15·4	19·9	35·3	77	...	...	8	6	...	9	23	...	...	7·2	5·4	...	8·1	20·8	23·5	13	10	24·0	17·7	181
Purneah ...	Purneah	8,463	6,553	15,016	4	3	7	13·8	10·4	24·2	133	...	...	9	1	...	1	11	...	...	31·2	3·4	...	3·4	38·1	17·3	7	4	43·0	31·7	139
Poori	Poori	13,247	11,537	24,784	6	4	10	13·6	8·4	21·0	150	16	19	9	5	...	13	61	33·6	39·6	18·9	10·5	...	25·2	128·0	100·7	36	25	141·3	113·7	126
	Total ...	550,986	510,588	1,061,574	278	237	475	11·7	11·8	23·3	100	46	22	210	68	10	132	488	2·3	1·1	10·3	3·3	·5	6·4	23·9	23·7	279	209	26·3	21·3	124

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	17	6	...	...	...	37·3	30·6	...	...	2	1	...	2	2	4	2	6	1	3	157·6	23·0	...	41·3	33·3	26·3	15·1	70·6	21·2	105·3
Midnapore	Midnapore	...	17	3	...	...	...	34·1	21·6	...	...	9	...	2	...	1	3	...	1	1	3	639·9	...	27·7	...	16·5	21·3	...	14·0	25·2	35·2
Hughli	Hughli and Chinsurah	...	23	5	...	...	...	47·3	43·3	...	...	4	6	...	2	1	5	...	2	5	5	250·0	93·7	...	41·9	20·7	41·9	...	24·9	100·0	125·4
Serampore	Serampore	...	28	1	...	...	...	47·4	55·4	...	...	3	1	2	...	...	2	5	1	2	8	219·7	28·8	41·4	...	...	19·3	52·3	15·4	51·3	299·1
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	45·2	...	...	...	200·0
Howrah	Howrah	...	2	24	8	...	...	54·9	18·3	29·3	...	...	2	7	4	2	1	3	6	2	3	4	50·4	65·7	33·1	15·3	7·1	6·9	16·3	8·8	28·4	56·5
	Bali	...	...	6	2	...	...	...	23·3	79·3	...	...	1	...	...	1	1	1	1	1	2	143·6	...	...	43·8	30·0	15·5	15·6	26·9	...	142·1
Nuddea	Kishnaghur	...	...	3	...	...	...	5·4	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	10·8	...	...	...	60·2
	Ranaghat	...	...	2	...	...	2	14·2	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	54·5	...	...	71·8	...
	Santipore	...	...	5	2	...	...	...	12·6	11·6	...	...	...	...	...	...	1	1	...	...	5	...	...	...	...	...	10·6	12·9	...	...	133·4
Jessore	Jessore	...	...	3	5	...	...	...	24·6	66·0	...	...	4	1	...	...	...	...	1	...	2	1,072·2	105·3	...	...	...	...	34·0	...	...	227·1
Rajshahye	Rampore Beauleah	...	...	3	4	...	...	...	15·7	21·2	...	...	1	1	...	...	1	...	3	...	...	1	128·1	26·7	...	...	31·3	...	43·3	...	...	54·6
Darjiling	Darjiling	...	...	6	2	...	...	...	67·9	169·9	...	...	1	2	...	...	1	1	1	1	1	...	422·8	161·7	...	...	31·3	25·0	36·3	75·1	218·1	...
Dacca	Dacca	...	...	14	8	...	...	...	18·1	10·6	...	...	2	3	1	...	...	5	3	1	2	5	54·8	21·2	5·2	...	...	17·7	13·4	6·2	22·0	46·7
	Narsinganj	...	...	4	5	...	...	...	31·9	43·2	...	...	1	...	...	1	1	1	2	...	...	3	186·4	...	...	45·8	49·8	19·5	48·6	...	...	289·3
Chittagong	Chittagong	...	1	...	9	...	...	63·3	...	30·6	...	...	1	4	1	...	...	1	2	...	1	...	93·4	105·7	20·8	...	...	11·2	31·2	...	47·9	...
Tipperah	Comillah	...	1	2	4	...	...	429·8	17·5	28·1	...	...	1	2	...	...	1	...	1	...	...	2	175·1	79·5	...	...	41·3	...	26·1	...	...	151·4
Patna	Patna City	...	...	29	10	...	...	...	13·7	13·7	...	...	3	...	3	...	2	5	10	4	4	5	36·3	...	9·3	...	9·3	9·0	23·4	11·0	14·7	30·1
Gya	Gya	...	...	42	9	...	...	...	26·4	29·1	...	...	4	2	1	1	1	7	9	10	7	9	116·2	16·4	7·4	7·7	9·9	24·7	36·8	53·2	55·4	90·9
Shahabad	Arrah	...	...	10	4	...	...	...	16·8	19·5	...	...	3	1	...	2	...	1	...	1	6	121·1	11·7	...	23·5	...	6·6	...	11·1	...	168·2
Mozufferpore	Mozufferpore	...	...	6	3	...	...	...	10·4	13·5	...	...	2	...	1	...	1	2	...	2	1	...	108·9	...	11·6	...	17·2	12·1	...	20·8	16·0	...
Durbhanga	Durbhanga	...	...	19	8	...	...	...	20·4	23·7	...	...	6	2	6	1	...	1	4	...	3	4	200·4	13·7	39·9	9·4	...	3·9	18·6	...	35·6	65·1
Saran	Chupra	...	...	7	2	...	...	...	9·2	8·6	...	...	2	...	2	...	1	...	2	1	...	1	75·7	...	17·5	...	15·0	...	13·4	8·6	...	15·3
Bhagulpore	Bhagulpore	...	...	13	9	...	...	...	17·0	27·4	...	...	5	2	1	1	...	3	...	4	2	4	217·8	19·2	8·9	8·3	...	14·3	...	23·0	24·4	57·7
Monghyr	Monghyr	...	...	17	6	...	...	...	19·3	24·8	...	...	4	4	1	2	...	1	3	3	...	6	140·1	33·4	7·4	18·1	...	5·0	11·7	24·5	...	87·0
Purneah	Purneah	...	...	6	5	...	...	...	34·0	45·9	...	...	1	...	...	...	1	6	1	1	...	1	183·7	...	...	...	53·3	25·0	18·2	28·0	...	64·4
Poori	Poori	...	...	60	1	...	...	...	127·2	247·6	...	...	7	7	7	4	5	6	5	3	6	11	1291·3	202·6	163·4	110·9	139·9	59·1	64·2	46·2	139·8	316·7
	TOTAL	...	6	363	121	...	...	29·9	24·9	21·4	...	...	69	44	33	19	21	62	61	44	40	96	141·3	24·6	15·1	13·1	13·5	15·3	18·1	18·3	26·8	75·9

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 22nd February 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 22nd February 1890.			Week ending Saturday, the 23rd February 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,794	2,84,282	4,616	1,065	2,89,857	5,222
Jute	135	98,125	1,605	135	87,675	1,757
Firewood	115	59,210	1,030	127	76,810	1,209
Other articles	1,024	2,74,750	4,032	1,027	2,45,395	3,813
Total ...	3,068	7,16,367	11,283	2,354	6,99,737	12,001

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of November 1889, as compared with the same month of the previous year.

Staples.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	6,922	1,638	7,531	2,160	8,560	9,713	...	1,153
Cotton, raw	51	459	73	74	510	146	364	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	3,055	60	3,216	107	3,115	3,383	.. ..	268
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	1,455	1,177	1,396	3,406	2,632	4,802	.. ..	2,170
5.—Others	700	2,752	832	3,687	3,452	4,520	.....	1,067
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	8	553	9	478	561	487	74	... ..
2.—Skins of sh ep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	7,366	.....	6,104	7,366	6,104	1,262	... .
b.—Unscrewed	86	39,137	29	28,514	39,223	28,543	10,680	.....
3.—Gunny-bags and cloth	147	1,123	93	1,325	1,270	1,418	.....	148
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	926	78	932	86	1,004	1,018	... ..	14
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
1.—Kerosine	497	2	418	6	499	424	75	.....
2.—Others	199	40	143	53	239	196	43	. .
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	61	1,350	113	1,200	1,411	1,313	98	.....
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	103	654	116	75	757	191	566	.. ...
3.—Others	468	295	492	189	763	681	82	.
Railway plant and rolling-stock	2,456	2,504	2,832	1,306	4,760	4,138	622	.. ..
Salt	5,011	18	3,202	22	5,029	3,224	1,805	..
Sugar—								
1.—Drained	625	92	503	173	717	676	41	.
2.—Undrained								
Tea—								
1.—Foreign	.....	1,945	6	1,584	1,945	1,590	355	.....
2.—Indian								
Wood—								
1.—Timber	315	236	94	76	551	170	381	.. ...
2.—Firewood	1,437	...	1,434	3	1,437	1,437	.	..
Tobacco	45	617	39	897	662	936	.....	274
All other articles of merchandise—								
1.—Unmanufactured	2,810	1,092	2,720	1,653	3,902	4,375	. ..	473
2.—Manufactured								
Hay, straw, and woolco (C. & S.-E. Section) ...	511	.....	498	2	511	500	11	.....
Total ..	27,888	62,938	30,762	53,242	90,876	80,004	16,459	5,587

Comparative Statement of traffic, Eastern Bengal State Railway, for November 1889.

DECREASES.

	Tons.
Coal	1,153
Due to sufficient stock for railway and flotilla purposes.	
Rice	2,170
The decrease is due to the failure of crops in Bengal.	

INCREASES.

Betel-nuts	566
Due to extensive despatches from Khoolna and C. P. T. Railway.	
Railway plant and rolling-stock	622
For construction, repair and renewal purposes.	
Salt	1,805
Due to favourable despatch from Chitpore.	
Tea	355
Due to favourable despatch from Jalpaiguri.	

CALCUTTA, *the 20th February* 1890.

F. P. QUINLAN,
Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of November 1889, *as compared with the same month of the previous year.*

STAPLES.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,797	.....	2,303	10	1,797	2,313	.....	516
Cotton, raw	1	.....	3	..	1	3	.....	2
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	266	1	274	.....	267	274	.....	7
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
1.—Rice	201	21	7	211	222	218	4	..
2.—Others	49	15	32	199	64	231	.....	167
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	22	.....	17	22	17	5	.....
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	1,802	.....	2,611	1,802	2,611	.....	809
2.—Gunny bags and cloth	2	.....	5	.....	2	5	.....	3
Metals—								
1.—Copper, unwrought								
2. Brass, unwrought								
3.—Brass and copper, wrought	25	18	34	18	43	52	.....	9
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	114	.....	60	.....	114	60	54	.....
3.—Others	74	.....	62	.....	74	62	12	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	16	69	58	78	85	136	.....	51
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	651	2	81	651	83	568	.....
3.—Others	21	8	14	5	29	19	10	.....
Railway plant and rolling-stock	10	23	45	36	33	81	.....	43
Salt	301	.....	163	.....	301	163	138	.....
Sugar—								
1.—Drained								
2.—Undrained	8	65	14	149	73	163	.....	90
Wood—								
1.—Timber								
2.—Firewood	.....	.....	10	11	.....	21	.....	21
Tobacco	26	19	25	6	45	31	14	.....
All other articles of merchandise—								
1.—Unmanufactured								
2.—Manufactured	272	107	290	207	379	503	.....	124
Total	3,183	2,626	3,427	3,639	6,009	7,066	785	1,842

Comparative Statement of traffic, Bengal Central Railway, for November 1889.

INCREASES.

	Tons.
Betel-nuts	568
Due to favourable market.	
Salt	138
Due to favourable despatch from Chitpore.	

DECREASES.

Coal	516
Due to sufficient stock for railway and flotilla purposes having been in hand.	
Jute	809
Due to dullness of the market on account of previous year's crop coming in earlier.	

CALCUTTA, *the 20th February* 1890.

F. P. QUINLAN,
Examiner of Accounts.

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of January 1890, *as compared with the same month of the previous year.*

Staples.	1889.		1890		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons	Tons.	Tons.	Tons.
Coal	794	.....	757	.....	794	757	.....	37
Cotton, raw	12	.....	14	.....	12	14	2	.....
Cotton piece-goods—								
1.—European	42	.....	18	1	42	19	.....	23
Grains—								
2.—Rice	38	1,148	98	647	1,186	745	.....	441
4.—Others	30	71	25	37	101	62	.....	39
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	4	.....	7	4	7	3	.....
b.—Undressed	.....	1	.....	.....	1	.....	.....	1
Jute—								
2.—Raw	.....	22	.....	17	22	17	.....	5
3.—Gunny bags and cloths	24	4	12	4	28	16	.....	12
Leather, manufactured	5	.....	6	.....	5	6	1	.....
Liquors—								
1.—beer	3	.....	.....	.....	3	.....	.....	3
1.—Wines	1	.....	.....	.....	1	.....	.....	1
Metals—								
2.—Iron	3	.....	15	.....	3	15	12	.....
4.—Others	10	4	8	4	14	12	.....	2
Oils—								
1.—Castor	4	1	1	.....	5	1	.....	4
2.—Kerosine	2	1	1	.....	3	1	.....	2
3.—Others	10	.....	8	.....	10	8	.....	2
Oilseeds—								
1.—Mustard and rape	74	.....	28	.....	74	28	.....	46
6.—Others	6	.....	.....	.....	6	.....	.....	6
Provisions—								
1.—Ghee	3	.....	9	.....	3	9	6	.....
2.—Dried fruits and nuts	2	.....	2	.....	2	2	.....	.....
3.—Others	73	.....	40	.....	73	40	.....	33
Paper and pasteboard	1	.....	.....	.....	1	.....	.....	1
Railway plant and rolling-stock	77	9	55	13	86	68	.....	18
Salt	30	1	24	1	31	25	.....	6
Silk, raw—								
2.—Indian	13	23	63	36	36	98	62	.....
Silk piece-goods—								
2.—Indian	.....	3	2	4	3	6	3	.....
Stone and lime	.....	.....	6	.....	.....	6	6	.....
Sugar—								
1.—Drained	24	.....	15	.....	24	15	.....	9
2.—Undrained	24	.....	92	.....	24	92	68	.....
Tobacco	.....	3	1	.....	3	1	.....	2
Timber	3	.....	4	.....	3	4	1	.....
All other articles of merchandise	75	17	143	19	92	167	75	.....
Total ...	1,388	1,313	1,451	790	2,700	2,241	239	698

Increase.

	Tons.
Metals—	
(2) Iron	12
This increase is due to greater demands.	
Silk, raw—	
(2) Indian	62
This increase is due to greater import of tussur cocoons from Raniganj district.	
Sugar—	
(2) Undrained	68
Due to greater import owing to higher rate.	

Decrease.

Coal	37
Due to previous stock not being exhausted.	
Cotton, piece-goods—	
(1) European	23
Due to previous stock not being exhausted.	
Grains—	
(2) Rice	441
Due to less export from intermediate stations, owing to less demand in North-Western Provinces.	
(4) Others	39
Due to less export of *kalie* this year owing to the failure of the crops.	
Jute—	
(2) Gunny-bags and cloths	12
Due to less export of rice.	
Oilseeds—	
(2) Mustard and rape	46
Less imported, bazar being dull.	
Provisions—	
(3) Others	33
Due to potatoes being carried this year by boats.	
Railway plant and rolling-stock	18
Less railway materials carried during the month.	

R. G. Mookerjee,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 15th February 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	255,058	3,05,880 1 0	27,70,075 0	6,48,315 10 0	21,086 15 9	9,75,282 10 0	66,605½	93,399½	160,004
Or per mile of railway	.....	200 8 2	.	424 15 9	13 13 2	639 5 1	.....	.....	...
For previous 6 weeks of half-year	1,470,051	16,67,706 6 0	1,43,01,949 20	32,94,693 1 0	1,11,723 13 0	50,74,123 4 0	379,707½	500,217½	879,9[illegible]
Total for 7 weeks ..	1,725,109	19,73,586 7 0	1,70 72,924 20	39,43,008 11 0	1,32,810 12 0	60,49,405 14 0	446,315	593,617	1,039,930
Comparison.									
Total for corresponding week of previous year ...	281,232½	3,09,550 12 0	28,62,673 10	6,25,084 5 0	17,727 9 7	9,52,362 10 7	65,644	98,801	164 44[illegible]
Per mile of railway corresponding week of previous year	.....	202 14 8	.....	409 12 2	11 9 11	624 4 9	.....	.....	... ..
Total to corresponding date of previous year	1,708,439½	20,04,193 9 5	1,91,28,461 0	41,80,783 12 3	1,04,046 10 0	62,89,025 15 8	445,447	667,000	1,113 84[illegible]

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th February 1889			Receipts for week ending 15th February 1890			Total receipts from 1st April 1888 to 16th February 1889.			Total receipts from 1st April 1889 to 15th February 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs
1,525½	9,52,363	624	1,525½	9,75,283	639	1,525½	3,88,29,351	553	1,525½	3,85,65,889	550	.....	2,63,461

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 15th February 1890, on 57½ miles open.

	Coaching Traffic		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers	Receipts	Weight carried.	Receipts.			Coaching	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ...	13,105	6,084 9 0	41,599 20	2,719 9 0	49 10 0	9,753 12 0	1,799	618	2,417
Or per mile of railway	229	122 1 9	725 30	47 8 9	0 13 10	170 8 4	.....	.....	.. ..
For previous 6 weeks of half-year	71,201	37,567 8 0	1,98,045 10	13,325 9 0	284 8 0	51,177 9 0	9,818	4,054	13,9[illegible]
Total for 7 weeks ...	84,306	44,652 1 0	2,41,454 30	16,045 2 0	334 2 0	60,931 5 0	11,617	4,672	16,357
Comparison.									
Total for corresponding week of previous year	13,674	7,320 10 10	24,801 30	1,707 3 0	35 15 0	9,063 12 10	1,858	536	2,394
Per mile of railway corresponding week of previous year ...	219	127 15 9	433 30	29 13 6	0 10 1	158 7 4	.....	..	.....
Total to corresponding date of previous year	83,906	44,475 0 4	2,02,191 10	11,883 7 0	236 5 9	56,594 13 1	12,876	3,886	16 76[illegible]

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th February 1889			Receipts for week ending 15th February 1890.			Total receipts from 1st April 1888 to 16th February 1889.			Total receipts from 1st April 1889 to 15th February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs		Rs.	Rs		Rs	Rs	Rs.	Rs
57½	9,064	158	57½	9,754	171	57½	4,25,353	102	57½	*4,43,024	108	17,671	.....

* Deducted Rs. 339 on account of difference between the approximate and audited figures to 31st December 1889.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th February 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches	°	°	°	°	°	Inches	°	%			Inches.	
Feb	2nd	131·2	9·6	30·091	63·9	76·4	24·1	52·3	55·9	0·340	48·8	61	W by S and variable	54	Nil	Clear, ⌓.
,,	3rd	132·5	9·9	·055	64·2	77·3	23·7	53·6	56·5	·356	49·6	63	N and NNW ...	62	,,	Clear, ⌓.
,,	4th	130·5	9·2	·012	64·9	78·5	25·2	53·3	57·6	·381	51·4	66	W and variable ...	39	,,	Clear, ⌓.
	5th	132·1	9·6	·027	65·7	78·0	23·7	54·3	58·2	·392	52·2	64	SW by W and variable.	57	,,	Clear, ⌓.
,,	6th	130·8	9·3	·046	64·7	77·6	24·7	52·9	57·3	·374	50·9	65	NNE, calm and variable.	38	,,	Clear, ⌓, ═.
,,	7th	134·3	9·6	·002	66·3	80·8	26·3	54·5	59·8	·432	54·9	70	SW, NNW, and calm	37	,,	Clear, ⌓, ═.
,,	8th	137·5	9·4	·037	67·6	80·8	22·6	58·2	61·2	·456	56·4	67	NNW and NNE ...	44	,,	Clear, ⌓, ═.

	Inches.
The mean pressure of the seven days	30·039
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·970
	Hours.
The total number of hours of bright sunshine	66·6
The maximum possible number of hours of sunshine	78·2
	°
The mean temperature of the seven days	65·3
The average temperature of the corresponding period for 24 years, S.-G.'s Office	70·3
The extreme variation of temperature	28·5
The maximum temperature	80·8
	Miles.
The highest velocity of the wind in one hour	7
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	65
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	69
	Inches.
The total fall of rain from 2nd to 8th February 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·20
The total fall from 1st January to 8th February 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·65

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, ═ fog.

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 10th February 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of January 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	30·092	
	°	
The mean temperature at 10 A.M. during the month	70·5	
The highest temperature during the month	82·9	19th and 24th.
The lowest temperature during the month	48·4	28th.
The absolute range of temperature during the month	34·5	
The mean daily range of temperature during the month	21 1	
The greatest range of temperature in one day during the month ...	26 0	28th
	%	
The mean 10 A.M. humidity during the month	67	
	Inches.	
The mean 10 A.M. vapour tension during the month	·506	
The total rainfall of the month	1·02	
The greatest fall in 24 hours	1·02	25th.
	Days.	
The number of rainy days in the month	1	

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,
The 3rd February 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th February 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Feb. 1890 ...	2nd ...	30·178	65·4	78·3	25·9	52·4	69 6	58·7	·348	49 0	48	Nil
,, ,, ...	3rd ...	·148	65·2	77·9	25·5	52·4	70·1	58·7	·344	48·0	46	.....
,, ,, ...	4th ...	·104	67 0	79·9	25 9	54·0	72·6	59·7	·343	48 6	42	... ..
,, ,, ...	5th ...	·116	67·4	79·9	25·0	54·9	71·4	57·7	·296	44·6	40	.....
,, ,, ...	6th ...	·139	66·8	79·7	25·8	53·9	71·6	57·7	·293	44·4	38	.. ...
,, ,, .	7th ...	·093	69·0	82·1	26·2	55·9	71·6	66·2	·572	62 8	74	.....
,, ,, ...	8th ...	·102	70·4	81·9	23·0	58·9	72·6	67·1	·591	63 7	74	.....

	Inches.
The mean 10 A.M. pressure of the seven days	30·125
	°
The mean temperature of the seven days	67·3
The extreme variation of temperature	29·7
The maximum temperature	82·1
	%
The mean 10 A.M. relative humidity of the seven days	52
	Inches.
The total fall of rain from 2nd to 8th February 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 10th February 1890.

MEMORANDUM.

THE returns from the principal Municipalities in Bengal, for the week ending 25th January 1890, present the following results :—

1. The birth-rate in these Municipalities stood at 22·8 per 1,000 of population, against very nearly the same proportion, viz., 23·1 per 1,000, during the preceding week ending 18th January, and the death-rate 18·5, against 21·8 per 1,000, indicating a retrogression in the registration of the latter events.

2. The highest proportions of births and deaths were returned from the following Municipalities :—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Ranaghat	47·9	Poori	62·9
Mozufferpore	47·6	Jessore	49·0
Serampore	41·2	Comillah	42·4
Durbhanga	39·3	Hughli and Chinsurah ...	36·1
Darjiling	37·0	Chittagong	30·5
Santipore	36·8		
Monghyr	35·3		
Naraingani	33·1		
Hughli and Chinsurah	32·8		
Rampore Beauleah	31·5		

3. The following figures represent the rates of mortality from the principal diseases under record, during the week under notice, contrasted with similar information for the preceding week ending 18th January :—

	Ratio per *mille* during the weeks ending—	
	25th January 1890.	18th January 1890.
Cholera	1·8	2·3
Small-pox	·3	·6
Fever	7·9	8·9
Bowel-complaints	3·3	3·1
Injury	·5	·3
Other causes	4·7	6·6

indicating chiefly that there was a decrease of mortality from fever and the unspecified diseases coming under the head of "Other causes."

4. Of the diseases mentioned above, cholera, fever, bowel-complaints, and "Other causes" proved conspicuously fatal in the following Municipalities :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes*	Ratio per *mille.*
Comillah ...	23·1	Jessore ...	24·5	Poori ...	14·6	Comillah ...	19·3
Hughli and Chinsurah ...	9·8			Mozufferpore ...	13·2	Gya ...	10·2
Howrah ...	8·0						

The mortality from small-pox in the Poori Municipality, although still high, was considerably below that of the preceding week ending 18th January, viz., 10·5, against 18·9 per 1,000 of population.

5. Under the heads of *Sex*, *Class* and *Age*, the mortality of the week stood as follows :—

According to Sex.	Ratio per *mille.*	*According to Class*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	29·3	Christians	44·8	Under 1 year ...	139·3
Females	16·6	Hindus	17·9	1 and under 5 years ...	16·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	125	Mahomedans ...	19·8	5 „ 10 „ ...	13·7
				10 „ 15 „ ...	10·3
				15 „ 20 „ ...	9·6
				20 „ 30 „ ...	11·8
				30 „ 40 „ ...	13·1
				40 „ 50 „ ...	10·4
				50 „ 60 „ ...	17·4
				60 years and upwards ...	59·3

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 10th February 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 25th January 1890.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females	Total.	Males.	Females	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ..	Burdwan	16,063	16,017	34,080	4	6	10	6·1	9·2	15·3	66	...	...	7	4	...	4	15	...	...	10·7	6·1	..	6·1	22·9	36·6	8	7	23·0	22·7	104
Midnapore ..	Midnapore ..	16,927	16,633	33,560	4	4	8	6·2	6·2	12·4	100	..	...	...	4	..	4	8	...	...	...	6·2	...	6·2	12·4	15·5	6	2	18·4	6·3	300
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	10	20	16·4	16·4	32·8	100	6	...	9	3	...	4	22	9·8	...	14·8	4·9	...	6·6	36·1	32·8	10	12	32·8	39·4	83
Serampore ...	Serampore ...	13,559	12,937	26,496	12	9	21	23·5	17·7	41·2	133	2	...	5	2	1	3	13	3·9	...	9·8	3·9	2·0	5·9	25·5	41·2	11	2	42·2	8·0	525
	Utterpara	3,046	2,464	5,510	3	...	3	28·3	..	28·3	No female birth.	...	...	1	1	...	...	2	...	...	9·4	9·4	...	..	18·9	47·2	1	1	17·1	21·1	81
Howrah ..	Howrah	53,183	37,660	90,813	14	13	27	8·0	7·4	15·5	107	14	...	8	9	...	2	33	8·0	...	4·6	5·2	...	1·1	18·9	26·9	23	11	21·5	15·2	140
	Bali	7,836	6,979	14,815	3	3	6	18·5	10·5	21·1	100	...	...	2	1	..	1	4	...	...	7·0	3·5	...	3·5	14·0	21·1	2	2	13·3	14·9	93
Nuddea .	Kishnaghur ..	13,263	14,214	27,477	9	5	14	17·9	9·5	26·5	180	..	...	5	...	...	2	7	...	...	9·5	...	...	3·7	13·2	1·9	4	3	15·7	11·0	136
	Ranaghat	4,028	4,655	8,683	3	5	8	18·0	29·9	47·9	64	..	...	2	1	...	...	3	...	...	12·0	6·0	...	..	18·0	47·9	1	2	12·9	22·3	54
	Santipore	13,708	15,979	29,687	10	11	21	17·5	19·3	36·8	90	2	...	7	1	...	...	10	3·5	...	12·3	1·7	...	...	17·5	13·3	8	2	30·3	6·5	300
Jessore ...	Jessore	4,830	3,665	8,495	...	1	1	...	6·1	6·1	No male birth.	2	...	4	2	...	...	8	12·2	...	24·5	12·2	...	...	49·0	49·0	4	4	48·1	56·3	77
Rajshahye ..	Rampore Beauleah	10,766	9,025	19,791	5	7	12	13·1	18·4	31·5	71	...	...	3	...	...	1	4	...	..	7·9	..	...	2·6	10·5	31·5	1	3	4·8	17·3	23
Darjiling ..	Darjiling	4,579	2,439	7,018	4	1	5	29·6	7·4	37·0	400	..	..	2	...	...	1	3	...	...	14·8	...	...	7·4	22·2	37·0	1	2	11·4	42·6	26
Dacca ...	Dacca	42,782	37,379	80,161	9	11	20	5·8	7·1	13·0	81	...	...	13	6	1	6	25	...	...	7·8	3·9	·6	3·9	16·2	21·4	14	11	17·0	15·3	113
	Naraingunj ...	7,605	4,956	12,561	7	1	8	29·9	4·1	33·1	700	.	...	2	2	...	3	7	...	...	8·3	8·3	...	12·4	29·0	58·0	5	2	34·2	21·9	162
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	4	7	7·0	9·4	16·4	75	...	...	2	4	3	4	13	...	...	4·7	9·4	7·0	9·4	30·5	37·6	7	6	27·3	35·5	77
Tipperah ..	Comillah	8,153	5,353	13,506	1	3	4	3·9	11·5	15·4	33	6	...	...	...	...	5	11	23·1	...	...	...	...	19·3	42·4	34·7	6	5	38·3	46·6	79
Patna	Patna City ...	78,762	81,475	160,237	18	18	36	5·8	5·8	11·7	100	1	...	7	7	...	4	19	·3	...	2·3	2·3	...	1·3	6·2	8·1	9	10	5·9	6·4	83
Gya	Gya	38,290	37,831	76,121	22	19	41	15·0	13·0	28·0	115	...	...	21	...	...	15	36	...	...	14·3	...	...	10·2	24·6	23·2	24	12	32·6	16·5	200
Shahabad ..	Arrah	20,960	22,506	43,466	11	14	25	13·2	16·7	29·9	78	...	...	6	2	...	...	8	...	...	7·2	2·4	...	...	9·6	20·3	4	4	9·9	9·2	100
Mozufferpore	Mozufferpore ...	23,064	19,658	42,742	6	12	18	15·9	31·7	47·6	50		...	4	6	...	2	11	..	...	10·6	13·2	...	5·3	29·1	13·4	4	7	9·0	18·5	50
Durbhanga .	Durbhanga ...	33,774	32,322	66,096	26	24	50	29·4	18·9	38·3	108	1	.	14	...	...	11	26	·8	...	11·0	...	...	5·6	30·4	22·8	13	13	20·0	20·9	100
Sarun	Chupra	25,116	26,554	51,670	14	15	29	14·1	15·1	29·2	93	...	1	7	3	3	5	19	...	1·0	7·0	3·0	3·0	5·0	19·1	19·1	12	7	24·8	13·7	184
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	11	7	18	10·0	6·3	16·3	157	...	...	10	...	...	6	16	...	..	9·1	...	...	5·4	14·5	19·9	7	9	12·3	16·8	77
Monghyr ..	Monghyr	28,154	29,366	57,520	13	26	39	11·8	23·5	35·3	50	...	...	7	3	...	8	18	...	...	6·3	2·7	...	7·2	16·3	19·0	9	9	16·6	15·9	106
Purneah ...	Purneah	8,463	6,553	15,016	2	3	5	6·9	10·4	17·3	66	...	...	5	1	...	1	7	...	...	17·3	3·4	...	3·4	24·2	...	5	2	30·7	15·9	200
Poori	Poori	13,247	11,537	24,784	5	4	9	19·5	8·4	18·9	125	3	5	9	7	2	4	30	6·3	10·5	16·9	14·6	4·2	8·4	42·9	65·0	17	13	66·7	53·6	114
	Total ...	550,986	510,588	1,061,574	229	236	465	11·2	11·6	22·8	97	37	6	161	68	10	96	378	1·8	·3	7·9	3·3	·5	4·7	18·5	21·6	215	163	20·3	16·6	125

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15											16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.											RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	1	8	6	...	...	388·1	17·6	30·4	...	...	2	2	1	...	...	4	2	1	1	2	157·6	46·1	22·3	...	...	26·3	15·1	11·8	21·2	70·2
Midnapore ..	Midnapore ...	1	7	...	...	...	233·2	14·0	...	...	...	1	1	...	1	...	1	2	...	1	1	70·0	22·1	...	17·1	...	7·1	15·8	...	25·2	23·4
Hughli ...	Hughli and Chinsurah	1	17	4	...	...	236·1	35·0	33·7	...	...	3	1	1	1	1	4	1	2	1	7	194·3	23·4	18·0	21·0	20·7	33·5	9·1	24·9	20·0	176·6
Serampore ...	Serampore ...	...	10	3	...	...	..	20·6	166·3	...	...	2	1	1	1	1	1	4	1	...	1	146·5	23·8	20·7	23·4	23·8	9·7	41·8	15·4	...	37·6
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	74·2	...	200·0
Howrah ...	Howrah	1	21	11	...	...	27·5	16·0	27·9	...	..	2	5	3	2	3	4	3	6	2	3	50·4	46·9	24·8	15·8	21·3	9·2	8·1	25·5	18·9	41·6
	Bali	...	4	...	...	...	...	15·5	..	...	...	1	...	...	1	...	...	1	...	...	1	145·6	...	...	43·8	...	...	18·6	...	...	71·0
Nuddea ...	Kishnaghur ...	...	4	3	...	...	...	11·2	18·8	...	...	2	...	1	...	...	...	2	...	...	2	209·7	...	15·1	...	...	...	24·3	...	...	69·2
	Ranaghat	...	3	...	...	...	..	21·3	...	...	...	1	...	1	...	1	...	.	...	...	...	251·2	...	46·6	...	83·5	...	...	...	...	...
	Santipore	...	6	2	...	...	...	20·1	11·6	...	...	1	1	1	1	...	1	2	...	1	2	61·5	17·9	13·8	17·9	...	10·6	24·0	...	22·6	53·0
Jessore ...	Jessore	...	4	4	...	...	...	46·1	54·4	...	...	2	...	...	2	...	1	2	...	1	...	536·1	...	...	156·4	...	25·8	68 0	...	92·4	...
Rajshahye ...	Rampore Beauleah	...	4	...	...	...	...	21·0	...	...	...	2	...	...	...	...	...	...	...	...	2	256·2	...	...	...	...	...	...	...	...	108·0
Darjiling ...	Darjiling	1	2	...	...	...	325·0	22·6	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	75·1	213·1	307·7
Dacca	Dacca	...	10	15	...	...	...	12·9	19·8	...	...	4	1	1	3	2	6	3	...	1	4	109·6	7·1	5·2	19·6	14·2	20·4	18·4	...	11·9	37·3
	Naraingunj ..	...	2	5	...	...	...	16·4	42·2	...	...	2	1	...	...	...	...	3	...	...	1	373·5	45·6	...	...	...	...	72·9	...	...	79·3
Chittagong ..	Chittagong ..	1	3	9	...	...	65·3	26·9	30·6	...	...	6	...	1	...	...	3	1	...	1	1	554·2	...	20·6	...	...	33·7	15·6	...	47·9	65·3
Tipperah ...	Comillah	...	2	9	...	...	...	17·5	63·3	...	...	5	...	...	...	...	1	1	...	1	3	575·4	...	...	...	...	18·8	26·1	...	64·9	230·1
Patna	Patna City ..	...	14	5	...	...	...	6·1	6·4	...	...	1	3	2	...	1	4	2	3	...	3	13·1	10·7	6·2	...	4·7	7·2	4·5	8·3	...	11·3
Gya ...	Gya	...	27	9	...	...	...	23·4	29·1	..	...	8	4	1	...	1	5	3	3	3	8	252·4	32·7	7·4	...	9·9	17·7	12·3	16·0	23·7	80·8
Shahabad ...	Arrah	.	5	3	...	...	...	8·4	12·6	...	...	3	...	1	1	...	...	...	...	...	3	121·1	...	10·1	11·8	...	...	...	...	...	54·1
Mozufferpore ..	Mozufferpore ...	...	8	3	...	...	...	13·9	12·5	...	..	2	...	1	...	...	1	1	1	1	4	106·9	...	11·6	...	...	6·1	7·5	10·4	16·9	85 5
Durbhanga ...	Durbhanga ...	...	20	6	...	...	...	21·5	17·8	...	...	5	...	5	2	1	...	...	1	4	6	166·7	...	33·2	18·7	12·9	...	...	7·0	47·4	130·2
Sarun	Chupra	...	16	3	...	...	...	21·0	13·1	...	...	2	...	2	...	...	4	3	...	3	5	73·7	...	17·5	...	..	22·6	20·0	...	37·7	76·4
Bhagulpore ...	Bhagulpore ...	...	11	5	...	...	...	14·4	15·1	...	...	5	..	2	4	...	...	1	2	...	2	217·8	...	17·7	33·1	...	...	5·6	16·5	...	28·9
Monghyr ...	Monghyr	...	15	3	...	...	...	17·4	12·4	...	...	5	4	2	...	...	2	...	...	...	5	175·1	33·4	14·7	...	...	19·1	...	...	...	72·5
Purneah ...	Purneah	...	3	4	...	...	...	17·0	36·7	...	...	1	...	1	...	...	2	1	...	1	1	183·7	...	32·9	...	...	31·7	18·2	...	55·5	64·4
Poori ...	Poori	...	30	...	...	...	...	63·6	...	...	...	...	5	1	...	4	4	6	3	3	4	...	144·7	23·2	...	111·9	39·4	77·0	46·9	69·6	115·2
	TOTAL ...	6	260	112	...	...	44·8	17·9	19·8	...	...	68	29	29	19	15	48	44	25	26	75	139·3	16·2	13·7	10 3	9·6	11·8	13·1	10·4	17·4	59·3

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 10th February 1890

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for Irrigation up to the end of November 1889.

CIRCLE.	DISTRICT.	CANAL.	Estimated full discharge	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.									RAINFALL, 1889-90.		RAINFALL, 1888-89.		REMARKS.
								Five years, all crops.	Five years, kharif.	ANNUAL LEASES.						Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.					
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches	
ORISSA	Cuttack	Taldunda, 1st Reach.	1,342	414	228	10,483	9,832	.....	10,483	.....	384	12	.....	.....	396	10,879	11·90	72·09	11·90	69 48	
		Taldunda, 2nd Reach.	566	286																	
		Machgong ...	776	132	73	27,748	27,031	.....	27,748	.....	222	14	.....	.....	236	27,984	9·10	65·45	5·80	48·52	
		Kendrapara ..	1,067	357·24	146·86	48,068	47,803	.....	51,379	42	3,983	36	.....	.....	4,061	55,440	11·78	75·31	1·90	48·81	
		Gobri ..	372·82	42 14	12·33	1,876	1,717	.....	2,224	.....	215	3	.....	.....	218	2,442	11·01	65·07	2 58	37·02	
		Gobri Extension	648	64·70	10·64	1,840	2,345	.....	2,024	... ..	7	.....	.....	.....	7	2,031	10·31	70·23	2·13	46·56	
		Pattamoondi ...	335	74·40	9·50	7,616	9,2 3	.....	9,·23	50	543	.....	.....	.....	623	10,446	No gauge fixed.				
		High Level, Range I.	608	156·35	69·88	16,343	18,468	.....	17,188	.....	490	3	... ..	.....	493	17,671	10·60	72·08	0 86	38·45	
		High Level, Range II.	727·16	82·71	79·35	2,370	2,444	.....	2,331	... ..	61	.....	.....	.....	61	2,442	.....	.....	.....	.....	
	Balasore ...	High Level, Range III.	727 16	208·13	203·13	35,749	20,898	.....	34,329	.....	.....	88	.....	.....	88	34,497	9·50	49·48	1 71	51 12	
		Total ...	.....	... .	. ...	154,113	139,751	.....	187,649	122	5,895	156	... .	... ..	6,173	163,822	... ..	...	.....	.....	
	Total of the corresponding period of last year.		... .	.....	... ..	.....	.....	.....	125,421	124	2,627	169	.....	... ..	2,920	131,341	.....	.....	.....	... ..	
SOUTH-WESTERN.	Midnapore ...	Midnapore ...	1,411	372	149	51,732	49,769	.....	60,665	.....	11	.....	.....	.....	11	60,676	3·93	46·91	0·08	61·18	Whole month discharging. 9 days discharging.
		Panchkoorah	522	8	.....	3,483	4,019	... ..	4,346	.....	369	.....	.....	.....	369	4,715	1·67	51·21	0 26	55·42	
	Howrah	Tidal Reaches, Ranges I and II.	.....	.....	.....	357	389	.....	318	.....	.....	.....	.....	.....	.....	318	.....	.....	.....	... ..	
		Total ...	.....	.....	.....	55,582	54,777	.....	65,329	.....	380	....	.....	.....	38·	65,709	... ..	.....	.....	... ..	
	Total of the corresponding period of last year		... ..	.....	.....	.... .	.....	.....	55,009	44	1,136	.....	.....	.....	1,180	56,189	.....	.....	.....	.. ..	
SONE	Shahabad ...	Western Main ...	4,342	1,584	40	19,623	20,727	15,312	.....	2,707*	1,937	159	36	284	5,125	20,437	2·43	47·36	0·01	39 73	* These are correct figures. (*Vide* Superintending Engineer's memo. No. 5490, dated 27th December 1889.) † Less area due to transfer to five years' leases.
		Buxar	1,226	430	256	76,864	77,183	47,420	.....	20,694*	1,253	2,041	852	3,380	28,220	76,640					
	Patna and Gya.	Arrah	3,000	906	670	136,639	147,443	91,480	.....	26,657†	4,469	2,220	211	8,373	41,930	133,410	0·20	41·30	0·58	37·07	
		Eastern Main ...	1,466	573	188	1,331	1,647	1,091	.....	702	15	13	2	.....	732	1,823	0·30	45·97	0·68	41·83	
		Patna				53,407	57,934	37,424	.....	18,503	1,427	271	287	.....	20,488	57,913					
		Total ...	.....	.....	.....	287,864	304,904	192,727	... ..	69,293	9,121	4,704	1,390	12,037	96,545	289,272	....	.....	.....	.. .	
	Total of the corresponding period of last year.		.....	.....	.....	... ..	.....	191,557	.....	66,316	35,081	3,123	330	9,054	113,904	305,461	.....	.....	.....	.....	
		Grand Total ...	.....	.....	.....	507,559	499,432	192,727	222,972	69,415	15,396	4,860	1,390	12,037	103,098	518,803	.....	.....	.....	.. ...	
	Grand Total of the corresponding period of last year		.....	.....	.....	.....	.....	191,557	183,430	66,484	38,844	3,293	330	9,054	118,004	492,991	.....	.....	.....	.....	

CALCUTTA;

The 11*th February* 1890

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 8th February 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 8th February 1890.			Week ending Saturday, the 9th February 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,807	3,45,095	5,900	1,576	4,07,000	7,006
Jute	179	1,35,400	2,320	110	82,150	1,480
Firewood	112	69,925	1,080	97	44,300	674
Other articles	979	2,40,465	3,510	1,113	2,24,430	3,297
Total ...	3,077	7,90,885	12,810	2,896	7,57,880	12,457

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st February 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*247,065	*2,85,017 11 0	24,72,428 30	5,73,894 12 6	20,375 4 0	8,79,287 11 6	65,022½	66,667½	132,310½
Or per mile of railway	.....	180 13 4	.....	376 3 3	13 5 3	576 6 3	.....	.....	.....
For previous 4 weeks of half-year	953,143	10,81,522 9 0	91,60,669 30	20,90,098 2 0	71,086 10 0	33,42,507 5 0	256,033½	326,888½	582,922½
Total for 5 weeks ...	1,200,168	13,66,540 4 0	1,16,33,098 30	26,63,992 14 6	91,461 14 0	41,21,795 0 6	301,056	413,576	715,234
Comparison.									
Total for corresponding week of previous year	270,796	5,34,076 0 4	27,85,780 10	6,23,252 3 9	14,989 8 4	9,78,217 12 5	68,350	99,318	167,648
Per mile of railway corresponding week of previous year ..	.....	210 9 4	.....	411 13 4	9 13 3	641 3 11	.....	.....	.....
Total to corresponding date of previous year	1,150,104	13,77,073 14 1	1,33,41,869 30	29,52,069 7 9	71,069 9 2	44,00,811 15 1	311,032	471,464	782,496

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included earnings on account of troop extra trains, and of "Magh Mela."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd February 1889.			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to 2nd February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,78,218	641	1,525½	8,79,288	576	1,525½	3,09,40,537	550	1,525½	3,06,62,862	547	.....	2,87,675

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 1st February 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,878	6,113 0 0	39,861 10	2,509 15 0	32 9 0	8,675 8 0	1,807	587	2,394
Or per mile of railway	207	106 13 11	697 0	43 14 1	0 14 9	151 10 9	.....	.....	.....
For previous 4 weeks of half-year	47,292	24,471 8 0	1,21,219 10	8,423 12 0	179 15 0	33,075 1 0	6,254	2,862	9,116
Total for 5 weeks ...	59,170	30,584 8 0	1,61,080 20	10,933 11 0	232 8 0	41,750 9 0	8,061	3,449	11,510
Comparison									
Total for corresponding week of previous year ...	11,792½	6,571 7 7	23,959 30	1,654 8 0	29 5 9	8,015 5 4	1,978	416	2,394
Per mile of railway corresponding week of previous year ...	206	110 11 0	401 20	28 14 10	0 8 3	141 2 1	.....	.....	.....
Total to corresponding date of previous year	57,836½	30,563 4 0	1,55,197 10	8,541 12 0	161 1 6	30,266 1 6	9,067	2,837	11,974

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd February 1889.			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to 2nd February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
57½	8,015	140	57½	8,676	152	57½	4,08,024	102	57½	4,24,182	109	16,158	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st February 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,518	4,875 9 0	13,359 20	474 0 0	8 0 0	5,357 9 0	898	70	968
Or per mile of railway	.....	219 2 1	.....	21 4 10	0 5 9	240 12 8	.....	.....	.....
For previous 4 weeks of half-year	69,123	17,429 8 0	40,104 0	1,532 8 0	25 15 0	18,987 15 0	3,221	249	3,470
Total for 5 weeks ...	88,641	22,305 1 0	53,463 20	2,006 8 0	33 15 0	24,345 8 0	4,119	319	4,438
Comparison.									
Total for corresponding week of previous year	19,700½	5,048 9 9	10,505 10	351 5 6	7 8 0	5,407 6 9	905	63	968
Per mile of railway corresponding week of previous year	.....	226 14 5	....	15 12 8	0 5 5	243 0 6	.....	.....	.....
Total to corresponding date of previous year	90,768	22,794 1 7	44,591 20	1,580 6 0	31 3 9	24,875 11 4	4,234	320	4,554

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd February 1889.			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to 2nd February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,407	243	22½	5,338	241	22½	2,31,258	236	22½	2,33,342	233	.....	2,916

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 25th January 1890, *on* 747 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... ...	139,690	72,150 0 0	6,52,240 0	1,40,160 0 0	15,350 0 0	2,34,660 0 0	22,816	36,400	59,216
Or per mile of railway	187	106 0 0	873 0	188 0 0	*2 0 0	296 0 0	.....	.....	.....
For previous 3 weeks of half-year	416,820	1,93,110 0 0	16,60,080 0	3,97,440 0 0	41,840 0 0	6,34,390 0 0	59,327	95,718	155,045
Total for 4 weeks ...	556,510	2,74,260 0 0	23,12,320 0	5,37,600 0 0	57,190 0 0	8,69,050 0 0	82,143	132,118	214,261
COMPARISON.									
Total for corresponding week of previous year	129,275	81,735 0 0	5,28,100 0	1,16,437 0 0	12,833 0 0	2,11,005 0 0	21,954	28,547	50,501
Per mile of railway corresponding period of previous year ..	192	121 0 0	785 0	173 0 0	*1 0 0	295 0 0	.....	.....	.....
Total to corresponding date of previous year	525,105	2,59,089 0 0	18,86,070 0	4,35,300 0 0	52,867 0 0	7,47,306 0 0	80,633	111,107	191,740

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 26TH JANUARY 1889.			RECEIPTS FOR WEEK ENDING 25TH JANUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 26TH JANUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH JANUARY 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,11,005	313	747	2,34,060	314	673	89,89,595	311	725	*94,95,285	305	5,05,690	.....

* Audited up to week ending 14th December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 25th January 1890, *on* 125 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,840	10,500 0 0	40,540 0	2,530 0 0	60 0 0	13,090 0 0	2,736	1,936	5,672
Or per mile of railway	207	84 0 0	324 0	20 0 0	1 0 0	105 0 0	.....	.....	.....
For previous 3 weeks of half-year	72,550	26,580 0 0	1,07,560 0	6,940 0 0	210 0 0	33,730 0 0	9,606	4,980	14,586
Total for 4 weeks ...	98,490	37,080 0 0	1,48,100 0	9,470 0 0	270 0 0	46,820 0 0	12,342	6,916	20,258
COMPARISON.									
Total for corresponding week of previous year	26,048	9,662 0 0	41,766 0	2,185 0 0	1,003 0 0	12,850 0 0	3,735	1,937	5,672
Per mile of railway corresponding period of previous year ...	208	77 0 0	334 0	18 0 0	9 0 0	104 0 0	.....	.....	.....
Total to corresponding date of previous year	98,050	34,892 0 0	1,54,411 0	8,214 0 0	3,509 0 0	46,765 0 0	13,896	7,197	21,093

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 26TH JANUARY 1889.			RECEIPTS FOR WEEK ENDING 25TH JANUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 26TH JANUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH JANUARY 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
125	12,960	104	125	13,090	105	125	5,02,860	110	125	*6,17,025	115	24,165	.....

* Audited up to week ending 14th December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th January 1890, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P	Mds s	Rs A P	Rs. A. P	Rs A. P.			
Total traffic for the week ..	15,780	5,960 0 0	34,250 0	3,430 0 0	80 0 0	9 470 0 0	2,414	1,130	3,54
Or per mile of railway	183	69 0 0	398 0	40 0 0	1 0 0	110 0 0	...	.. ..	..
For previous 3 weeks of half-year	45 520	16,920 0 0	96,850 0	10,040 0 0	620 0 0	27,580 0 0	6 440	2,368	8,80
Total for 4 weeks .	61 300	22,880 0 0	1,31,100 0	13,470 0 0	700 0 0	37,050 0 0	8,854	3,498	12,35
Comparison.									
Total for corresponding period of previous year .	15,180	4 830 0 0	10,884 0	1,250 0 0	94 0 0	6,180 0 0	2,482	623	3,10
Per mile of railway corresponding period of previous year	177	56 0 0	126 0	15 0 0	1 0 0	72 0 0	..	....	.. .
Total to corresponding date of previous year ..	56,960	17,314 0 0	44,075 0	14,821 0 0	433 0 0	22,568 0 0	= 9,245	2,317	11,56

FINANCIAL YEAR

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 26th January 1889.			Receipts for week ending 25th January 1890.			Total receipts from 1st April 1888 to 26th January 1889			Total receipts from 1st April 1889 to 25th January 1890.			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs	Rs.		Rs.	Rs		Rs.	*Rs.	Rs.	Rs
86	6,180	72	86	9,470	110	86	2,46,042	57	86	*3,21,072	57	75,030	... ..

* Audited up to week ending 14th December 1889

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st February 1890, *on* 27¼ *miles open.*

	Coaching Traffic		Merchandise and Mineral Traffic.		Other earnings (estimated)	Total earnings	Traffic Train-miles run		
	Number of passengers	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise	Total
		Rs. A P	Mds. s	Rs. A. P	Rs. A. P.	Rs A. P			
Total traffic for the week .	3 023	1,067 0 0	10,555 0	722 0 0	14 0 0	1,832 0 0	509	254	763
Or per mile of railway	111	40 0 0	387 0	26 0 0	1 0 0	67 0 0	.....	.. .	.. ..
For previous 3 weeks of half year	10,781	3,752 0 0	54,882 0	3,314 0 0	51 0 0	7,117 0 0	1,818	907	2,725
Total for 4 weeks	13,804	4,839 0 0	65,437 0	4,036 0 0	65 0 0	8,940 0 0	2,327	1,161	3,488
Comparison									
Total for corresponding week of previous year	3,223	1,179 0 0	16,080 0	945 0 0	14 0 0	2 138 0 0	509	635	1,144
Per mile of railway corresponding week of previous year	118	43 0 0	590 0	35 0 0	1 0 0	79 0 0	... ..	.....	...
Total to corresponding date of previous year . ..	14,934	5,482 0 0	74,709 0	3,882 0 0	85 0 0	9,449 0 0	2,399	2,038	5,037

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 2nd February 1889			Receipts for week ending 1st February 1890			Total receipts from 1st April 1888 to 2nd February 1889			Total receipts from 1st April 1889 to 1st February 1890			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs	Rs		Rs.	Rs		Rs.	Rs		Rs	Rs	Rs.	Rs
27¼	2 138	79	27¼	1 833	67	27¼	84 690	74	27¼	84,507	74	...	183

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st February 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	43,941	19,455 0 0	2,00,881 0	32,691 0 0	5,578 0 0	57,704 0 0	6,488	9,318	15,753
Or per mile of railway	161	71 0 0	1,064 0	120 0 0	3 0 0	194 0 0*	.....	.....	.....
For previous 3 weeks of half-year	163,370	71,962 0 0	8,40,269 0	94,122 0 0	19,000 0 0	1,84,084 0 0	21,516	29,932	51,448
Total for 4 weeks ...	206,311	91,397 0 0	11,30,630 0	1,26,813 0 0	23,578 0 0	2,41,788 0 0	27,981	39,250	67,201
COMPARISON.									
Total for corresponding week of previous year	35,857	14,096 0 0	1,19,895 0	11,605 0 0	2,913 0 0	28,616 0 0	6,004	5,108	11,112
Per mile of railway corresponding week of previous year ..	131	52 0 0	439 0	43 0 0	1 0 0	95 0 0*	.....	.....	.....
Total to corresponding date of previous year	177,484	64,941 0 0	6,29,346 0	57,783 0 0	14,401 0 0	1,37,124 0 0	25,933	25,706	51,639

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 3rd February 1889.			Receipts for week ending 1st February 1890.			Total receipts from 1st April 1888 to 3rd February 1889.			Total receipts from 1st April 1889 to 1st February 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	28,616	105	273	57,704	211	264·63	13,86,627	125	273	17,25,106	150	3,38,481	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 18th January 1890	8,031
Corresponding week last year	8,321
Decrease	290
Receipts from 1st to 18th January 1890	17,513
From 1st to 19th January 1889	16,338
Increase	1,175
	Miles.
Miles open week ending 18th January 1890	51
Corresponding week last year	51
	Rs. A. P.
Receipts per mile open week ending 18th January 1890	157 7 6
Corresponding week last year	163 2 7
Decrease	5 11 1

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WEDNESDAY, MARCH 5, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 169A.

GENERAL.—*The 6th February* 1890.—Mr. A. W. Mackie, Officiating District and Sessions Judge, Moorshedabad, is appointed to be District and Sessions Judge of Rungpore.

Mr. R. H. Anderson, Joint-Magistrate and Deputy Collector, Moorshedabad, is appointed to act as District and Sessions Judge of that district, until relieved by Mr. W. H. Page.

The 18th February 1890.—Mr. C. E. Buckland, Officiating Secretary, Board of Revenue, ...eave, is appointed to act temporarily as Commissioner of the Burdwan Division.

...e *21st February* 1890.—Mr. J. Boxwell, Officiating Commissioner, Patna Division, ...owed furlough for ten months, under article 340 of the Civil Service Regulations, with ...ect from the 1st April 1890.

The 28th February 1890.—Mr. H. H. Risley, Deputy Commissioner, has been granted by Her Majesty's Secretary of State for India an extension of furlough up to the 20th November 1890.

Mr. Nunda Krishna Bose, Temporary Joint-Magistrate and Deputy Collector, Nudden, is appointed to act as Magistrate and Collector of Furreedpore, during the absence, on deputation, of Mr. T. J. C. Grant, or until further orders.

Mr. H. Holmwood, Temporary Joint-Magistrate and Deputy Collector, 24-Pergunnahs, is appointed to act as Inspector-General of Registration, during the absence, on deputation, of Mr. W. D. Blyth, or until further orders.

The 1st March 1890.—Mr. J. T. Babonau, Deputy Magistrate and Deputy Collector, Bhagulpore, is allowed leave for ten days, under article 372 of the Civil Service Regulations, in extension of the leave granted to him under the order of the 3rd December 1889.

Mr. E. Geake, Officiating Joint-Magistrate and Deputy Collector, Raneegunge, Burdwan, is vested with the powers of a Collector under Act X of 1870 in that district.

The 3rd March 1890.—Mr. Umesh Chunder Batabyal, Officiating Joint-Deputy Collector, is posted to Howrah.

Mr. R. Carstairs, Officiating Deputy Commissioner, Sonthal Pergunna furlough for nine months, under article 340 of the Civil Service Regulatio from the 10th March 1890, or such subsequent date as he may avail himself o

The 4th March 1890.—Mr. W. H. M. Gun, Officiating District and Se Noakholly, is allowed furlough for eight months, under article 340 of th Regulations, with effect from the 17th proximo, or such subsequent date as h himself of it.

Mr. G. W. Place, Joint-Magistrate and Deputy Collector, Midnapore, i act as District and Sessions Judge of Noakholly, during the absence, on Mr. W. F. Meres, or until further orders.

Baboo Rojonee Coomar Dutt, Deputy Magistrate and Deputy Collecto transferred to the Sudder station of the district of Tipperah.

Mr. Taheiruddin Ahmed, Assistant Magistrate and Collector, is posted to station of the district of Pubna.

Mr. K. G. Gupta, Officiating Junior Secretary, Board of Revenue, is allow fifteen days, under article 291 of the Civil Service Regulations, with effect f instant.

Mr. A. E. Staley, Joint-Magistrate and Deputy Collector, 24-Pergunnahs, to act as Junior Secretary to the Board of Revenue, during the absence, Mr. K. G. Gupta, or until further orders.

Baboo Poorno Chunder Mitter, Deputy Magistrate and Deputy Collecto Purneah, is allowed leave for fifteen days, under article 291 of the Civil Servic with effect from the 8th instant.

Mr. E. V. Westmacott, Commissioner of Excise, Bengal, is allowed leav months, under article 291 of the Civil Service Regulations, with effect fr instant.

Mr. A. Forbes, Officiating Magistrate and Collector, 24-Pergunnahs, is a act as Commissioner of Excise, Bengal, during the absence, on leave, of Mr. macott, or until further orders.

Mr. C. W. Bolton, Officiating Secretary, Board of Revenue, is appointed t further orders, as Magistrate and Collector of the 24-Pergunnahs.

Mr. C. C. Quinn, Magistrate and Collector, Patna, on furlough, is appointe Commissioner of the Bhagulpore Division, during the absence, on [illegible]atio Beames, or until further orders.

POLICE.—*The 27th February* 1890.—Mr. R. N. W. Pritchard, Assistant Su of Police, Mozufferpore, was on leave for twenty-six days, under article 291 Service Regulations, from the 15th December 1889 to the 9th January 1890, inclusive.

The 3rd March 1890.—Mr. R. N. W. Pritchard, Assistant Superintendent Mozufferpore, is allowed leave for nine months, under article 369 of the Civil Serv tions, with effect from the date on which he may avail himself of it.

The 4th March 1890.—Baboo Rash Behari Biswas, Inspector of Police, is temporarily to have charge of the district police of Khoolna.

Mr. H. W. J. Bamber, District Superintendent of Police, 24-Pergunnahs, special leave for six months, under article 348 of the Civil Service Regulations, from the 1st proximo.

The services of Mr. I. H. W. D. Clark, District Superintendent of Police, at the disposal of the Government of India in the Home Department.

EDUCATION.—*The 27th February* 1890.—Mr. J. T. Bartlett, Teacher of Engineering College, Sheebpore, is allowed furlough for one year, under article 3 Civil Service Regulations, with effect from the 1st April 1890, or such subsequent may avail himself of it.

The 28th February 1890.—Mr. J. S. Slater, Professor, Civil Engineering Sheebpore, reported his departure from India on furlough on the 20th instant.

The 1st March 1890.—In supersession of the order of the 28th January la Probhat Chandra Sen, Deputy Inspector of Schools, Noakholly, is appointed Assistant Inspector of Schools, Chittagong Division, during the absence, on depu Baboo Kailash Chandra Sen, or until further orders.

The following notifications are republished from the *Assam Gazette* :—

No. 1314*G.*—*The 21st February* 1890.—The following is published for inform

No. 788.—*The 14th February* 1890.—*Finance and Commerce Department.*—The under officer has been granted by Her Majesty's Secretary of State for India permission to return advised in list dated 24th January 1890 :—

H. L. Johnson...	Covenanted...	Judge and Commissioner, Assam Valley Districts.	Within the his leave.

No. 1331*G.*—Mr. A. Shuttleworth, Assistant Superintendent of Police, whose were placed at the disposal of the Chief Commissioner in Home Department No

No. 128, dated the 10th February 1890, is posted to Silchar, and appointed to have charge of the Civil Police of the Cachar district.

No. 663J.—The 20th February 1890.—Under the provisions of section 12 of the Criminal Procedure Code (Act X of 1882), the Chief Commissioner invests Mr. F. C. Henniker, C.S., Assistant Commissioner, with the powers of a Magistrate of the first class.

No. 8.—The 20th February 1890.—Mr. H. LeMesurier, C.S., made over the executive charge of the Cachar Treasury to Mr. W. G. Black, Extra Assistant Commissioner, in the forenoon of the 8th February 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT,—(FORESTS).

NOTIFICATION.

The 28th February, 1890.—Mr. G. A. Richardson, Deputy Conservator of Forests, is granted privilege leave for three months, under the provisions of article 277 of the Civil Service Regulations, with effect from the 23rd February, 1890.

Mr. E. E. Slane, Sub-Assistant Conservator of Forests, Palamow Sub-Division, is transferred to the Khorda Sub-Division of the Orissa Forest Division, with head-quarters at Khorda, and will hold charge of the office of the Orissa Forest Division, in addition to his other duties, with effect from the afternoon of the 22nd February, 1890.

Baboo Kedar Nath Mozumdar, Forest Ranger, third grade, in charge of the Northern Range of the Palamow Sub-Division, to hold temporary charge of that Sub-Division, in addition to his other duties, with effect from the afternoon of the 16th February, 1890, on which date he relieved Mr. Slane.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 27th February, 1890.—The Board of Revenue having submitted for consideration a report under section 13 of Act II (B.C.) of 1882, on the construction of a sluice in the eastern line of the embankment protecting mouzah Gohira, in khas tehsil Puttia, in the district of Chittagong, at an estimated cost of Rs. 404-3, the Lieutenant-Governor is pleased, under the provisions of section 14 of the said Act, to order that the sluice shall be constructed in accordance with the plan prepared by the Khas Tehsil Deputy Collector of Puttia, and approved by the Executive Engineer, Chittagong Division.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 4th March, 1890.—In exercise of the powers vested in him by section 3 of Act V (B.C.) of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made, and that the boundaries of estates, tenures, mouzahs, and fields shall be demarcated, in respect of the lands comprised in thana Patiya, in the district of Chittagong

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 4th March, 1890.—With reference to the notification of this date, under section 3 of Act V (B.C.) of 1875, ordering a survey of the lands in thana Patiya, in the district of Chittagong, the Lieutenant-Governor appoints Mr. F. A. Slack to be the Superintendent, and Mr. W. J. O'Sullivan, Surveyor, third grade, and Baboo Durga Churn Ghosh to be Assistant Superintendents of Survey under section 4 of the same Act for the purpose of the said survey

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 4th March, 1890.—Under clause (2) of section 14 of Act XXI of 1883, (The Indian Emigration Act), the Lieutenant-Governor approves the appointment of Mr. T. C. T. Reelfs as Emigration Agent at Calcutta for Surinam, with effect from the 1st May, 1890, *vice* Monsieur P. Charriol.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 28th February 1890.—Baboo Hari Pada Bhattacharjee, Deputy Collector, is appointed Deputy Collector of Income-tax in the district of Julpigoree, *vice* Baboo Priya Nath Mukerjee, transferred, and under section 40 of Act II of 1886 is vested with the powers of a Collector under the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 28th February 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of the proposed central distillery at Burrisal, in the village of Amanatgunge, pergunnah Chunderdeep, zillah Backergunge, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 bigha 13 cottahs and 8 chittacks of standard measurement, bounded on the North by the lands of Ijjotullah and Komal Singh; East by the houses of Fotama and Fulshon; South by the houses of Umatara; and West by the Government distillery lands, is required within the aforesaid village of Amanatgunge.

A plan of the land required may be inspected by the parties interested at the office of the Collector of Backergunge.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern

H. J. S. COTTON,
Offg. Secy to the Govt. of Bengal.

DECLARATION.

The 4th March 1890.—In supersession of the notification dated the 31st January 1890, published at page 104, Part I of the *Calcutta Gazette* of 5th February 1890, the following notification is published for general information :—

Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of the proposed central distillery at Khoolna, in the village of Tootpara, pergunnah Hogla, zillah Khoolna, it is hereby declared that for the above purpose a piece of land measuring, more or less, 3 bighas and 12 cottahs of standard measurement, bounded on the North by the land of Ram Charun Ghosh; East by the Straud Road on the bank of the river Roopsa; South by the land of Gosaidas Lohar; and West by the land of Abinas Dutta, is required within the aforesaid village of Tootpara.

A plan of the required land may be inspected at the Collector's office.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

JUDICIAL DEPARTMENT.

No. 170A.

The 25th February 1890.—The Lieutenant-Governor accepts the resignation tendered by Baboo Uma Kanto Bhya of his appointment as an Honorary Magistrate of the Independent Bench at Beauleah, in the district of Rajshahye.

The 27th February 1890.—Baboo Jogendra Chandra Maulik, Munsif of Netrokona, in the district of Mymensingh, is vested with the powers of a Judge of a Court of Small Causes for the trial of suits cognizable by such a Court up to the value of Rs. 50 within the local limits of the Netrokona Munsifi, during the absence, on leave, of Baboo Akhoy Coomar Sen, or until further orders.

Baboo Shoshi Bhushan Rai and Moulvie Moojiruddin Ahmed are appointed to be Honorary Magistrates of the Independent Bench at Nowgong, in the district of Rajshahye, and are vested with the powers of a Magistrate of the third class.

The 28th February 1890.—Baboo Abinash Chunder Mitter is appointed to be an Honorary Magistrate of the Independent Bench at Khoolna, and is vested with the powers of a Magistrate of the third class.

Baboo Soresh Chunder Roy is appointed to be an Honorary Magistrate of the Bench at Jehanabad, in the district of Hooghly, and is vested with the powers of a Magistrate of the third class.

Baboo Grish Chundra Ghosal is appointed to be an Honorary Magistrate of the Nyehatty Regular Bench, in the district of the 24-Pergunnahs, and is vested with the powers of a Magistrate of the third class.

Baboos Kiron Chandra Roy and Uma Churn Bose are appointed to be Honorary Magistrates of the Bench at Narail, in the Jessore district, and are vested with the powers of a Magistrate of the third class.

The undermentioned gentlemen are appointed to be Honorary Magistrates of the Independent Benches mentioned in the district of Mymensingh, and are vested with the powers of a Magistrate of the third class :—

For the Independent Bench at the Sudder Station.

Baboo Purna Chunder Purkait.

For the Independent Bench at Kishoregunge.

Baboo Annada Prosad Ghose.

The undermentioned gentlemen are appointed to be Honorary Magistrates of the Bench at Rughoonathpore, in the district of Manbhoom, and are vested with the powers of a Magistrate of the third class :—

Baboo Raj Kumar Tara Lal Singh Deo.	Baboo Kali Prosad Banerjee.
„ Ram Sundar Banerjee.	„ Gobinda Das Bhagal.
„ Kali Kumar Rai Chowdhry.	„ Rakhal Das Mozumdar.

The 4th March 1890.—Mr. Taheiruddin Ahmed, Assistant Magistrate and Collector, Pubna, is vested with the powers of a Magistrate of the third class.

GRANT OF LEAVE TO MUNSIF.—*The 24th February* 1890.—Baboo Manmatha Nath Chatterjee, Munsif of Katwa, in the district of Burdwan, is allowed leave for thirty days, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he may avail himself of it.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th February 1890.—In supersession of the notification dated the 13th March 1889, published at pages 196-97 of Part I of the *Calcutta Gazette*, dated the 20th idem, the Lieutenant-Governor directs that a police-station be established at Monarpur, instead of at Dhipa, in the district of Singbhoom, and that the thana be called by the name of the Monarpur thana. The jurisdiction of the Monarpur police-station will be the same as that declared by the notification hereby superseded to be the jurisdiction of the Dhipa police-station.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 3rd March 1890.—The notification, dated the 28th January last, published at page 79, Part I of the *Calcutta Gazette*, dated the 29th idem, sanctioning the removal of the Joint Sub-Registry Office at Chaprasir Hât from its present site at Chaprasir Hât to Buktar Munshi's Hât, in the district of Noakholly, is hereby cancelled.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 4th March 1890.—The Lieutenant-Governor sanctions the retention, for a further period of one year, from the 1st December 1889, of the Sub-Registry Office at Narayia, in the district of Durbhunga, which was opened experimentally for one year under orders dated the 6th November 1888.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(BENGAL.)

IRRIGATION.

The 4th March 1890.

No. 61.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz. for No. 2 Distributary of the Pattamundai Canal, it is hereby declared that for the above purpose a piece of land 4 miles 5 furlongs 100 feet long, and averaging in width 25 feet, measuring 13 acres 2 roods and 39 poles, more or less, of standard measurement, commencing from mouzah Jakodia, pergunnah Soongrah, passing through mouzahs Doorgapur Rameswar, Lekhunpur, Naroda, Patopur, Málsásun, and terminating at mouzah Bhera, pergunnah Soongrah, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 62.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz, for Branch A of No 2 Distributary of the Pattamundai Canal, it is hereby declared that for the above purpose a piece of land, 1 mile 6 furlongs and 140 feet long, and averaging in width 21 feet, measuring 4 acres 1 rood and 26 poles, more or less, of standard measurement, commencing from mouzah Rameswar, pergunnah Soongrah, passing through mouzahs Brahmunkhund, Unchoodihi, Lekhunpur, Alampur, Sedhoos, and terminating at mouzah Katikota, pergunnah Soongrah, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 63.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz. for Branch B of No. 2 Distributary of the Pattamundai Canal, it is hereby declared that for the above purpose a piece of land 4,600 feet long, and averaging in width 21 feet, measuring 2 acre, and 86 poles, more or less, of standard measurement, commencing from mouzah Doorgapur, pergunnah Soongrah, passing through mouzah Brahmunkhund and terminating at mouzah Unchoodihi, pergunnah Soongrah in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 64.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz. for No. 4 Distributary of the Pattamundai Canal, it is hereby declared that for the above purpose a piece of land 4 miles 5 furlongs and 380 feet long, and averaging in width 22 feet, measuring 12 acres 2 roods and 30 poles, more or less, of standard measurement, commencing from mouzah Nurtang, pergunnah Karimul, passing through mouzahs Jaleswarpur, Srikrisnapur, Chainpal, Adam Maheshpur, and terminating at mouzah Malihatta, pergunnah Kuhunda, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 65 —Mr. D. B. Horn, Executive Engineer, Buxar Division, is granted furlough for eight months, with effect from the 9th April 1890, or such date as he may avail himself of it.

No. 66 —Mr. K. H. Stephen is appointed to be Executive Engineer of the Buxar Division, *vice* Mr. D B. Horn.

No. 67 —Mr. S. C. Roberts, Deputy Revenue Superintendent of Canals, Orissa, was on privilege leave from the 11th to the 16th October 1889, both days inclusive.

No. 68.—Mr. M. J J. P. Norman, Executive Engineer, Gunduck Division, is granted furlough for one year with effect from the 1st of May 1890, or such subsequent date as he may avail himself of it.

No. 69.—Mr J. C. G Keddie, Executive Engineer, Public Works Department, and District Engineer, Gya, has been granted by Her Majesty's Secretary of State for India an extension of three months' furlough.

No. 70.—*Reversion.*—The Lieutenant-Governor is pleased to make the following reversion in the Engineer Establishment with effect from the date specified.—

Name.	From	To	With effect from	Nature of promotion.
Mr. C. H. DeMello ...	Executive Engineer, 4th grade, temporary rank.	Assistant Engineer, 1st grade.	2nd January 1890	Reversion.

No 73.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Bhujni Mulik Chowkidar for his jagir land acquired for the Deb river embankment in the village of Galdari, pergunnah Kate, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 26 poles of standard measurement, bounded on the north, south, and west by pahee lands of Banchha Nidhi Mahanty, and on the east by pahee land of Banchha Nidhi Mahanty and Government embankment, is required within the aforesaid village of Galdari.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 74 —*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz, for compensating Kinai Mullik Chowkidar for his jagir land acquired for remodelling Section E of the Deb river embankment in the village of Kolor, pergunnah Deoganw, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 6 poles of standard measurement, bounded on the north and west by pahee land of Ram Das, on the south by Asthan of Marichai Thakuranee, and on the east by pahee land of Belai Naik, is required within the aforesaid village of Kolor.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern,

No. 75.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Bhicari Mullik Chowkidar for his jagir land acquired for remodelling Section E of the Deb river embankment, in the village of Foolhar, pergunnah Deoganw, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 10 poles of standard measurement, bounded on the north and west by pahee land of Bhicari Mullik, on the south by waste land (Godunda), and on the east by zemindar's granary, is required within the aforesaid village of Foolhar.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 76.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Bhagi Mullik Chowkidar for his jagir land acquired for remodelling Section G of the Deb river embankment, in the village of Bachhalo, pergunnah Kate, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 5 poles of standard measurement, bounded on the north by cultivated land of Madhoi Lenka, on the south and west by cultivated land of Lakhun, Lenka, and on the east by cultivated land of Chakradhar Sahoo, is required within the aforesaid village of Bachhalo.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 77.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Chintai Jena Chowkidar for his jagir land acquired for Branch B of No. 3 Distributary, High Level Canal, Range III, in the village of Kurukana, pergunnah Jajepore, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 rood 27 poles of standard measurement, bounded on the north by pahee land of Sonai Naik, on the south by pahee land of Sonai Naik and thani land of Ekadusi Bhunj, on the east by pahee land of Karuni Rout, and on the west by thani land of Ekadusi Bhunj and lakhiraj land of Bazaril Hossen Kazi, is required within the aforesaid village of Kurukana.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 78.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Avin Mullik Chowkidar for his jagir land acquired for remodelling Section G of the Deb river embankment, in the village of Pohole, pergunnah Kate, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 8 poles of standard measurement, bounded on the north by pahee land of Adikand Swani, on the south by thani land of Arat Naik, on the east by pahee land of Arat Naik, and on the west by pahee land of Raghub Mullik, is required within the aforesaid village of Pohole.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 79.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Avin Mullik Chowkidar for his jagir land acquired for remodelling Section G of the Deb river embankment, in the village of Antapura, pergunnah Kate, zillah Cuttack, it is hereby declared that for the above purpose a piece of land measuring, more or less, 3 poles of standard measurement, bounded on the north and south by pahee land of Shibo Mohanty, on the east by pahee land of Urdhab Mohanty, and on the west by pahee land of Bachha Mohanty, is required within the aforesaid village of Antapura.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 80.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for compensating Jogee Jenna Chowkidar for loss of his jagir land acquired for No. 3 Distributary of High Level Canal, Range III, in the village of Sadanandpur, pergunnah Sahebnugger, zillah Cuttack, it is hereby declared that for the above purpose the following strips of land measuring in aggregate, more or less, 38 poles of standard measurement, are required in the aforesaid district of Cuttack—

1st Plot.—Ten poles bounded on the north by the jagir land of Jogee Jenna, on the south by the pahee land of Jogee Jenna, on the east by the thani land of Cumta Money Podhan, and on the west by that of Raghu Naik.

2nd Plot.—Twenty-eight poles bounded on the north by the cultivated land of Luckhan Das and other zemindars, on the south by pahee land of Raghu Naik, on the east by jagir land of Jogee Jenna, and on the west by pahee land of Banamalli Panda.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 81.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for Baturni right embankment from 6th mile 2,200 feet to the 10th mile, it is hereby declared that for the above purpose a piece of land 3 miles and 3,080 feet long and averaging in width 57 feet, measuring 24 acres 2 roods and 17 poles, more or less, of standard

measurement, commencing from mouzah Ankula, pergunnah Jajepur, passing through mouzahs Rautrapur, Kotebasantpur, Raitolla samil-Chundersikherpur, Bindhan, Bilusarai Das-Abotar, Rajpur Jadusarai, Shurifpur, Isanpur, Lakhminarainpur, Jajpur, Dandasunderpur, Kodandpur, Digibasudebpur, Bamdebpur, and terminating at mouzah Gardeswar, pergunnah Jajepur, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

J M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 3rd March 1890.

No. 60.—The following extract from a notification issued by the Government of India, Public Works Department, is republished for information :—

No. 87, *dated 24th February* 1890.—The undermentioned Royal Engineer Officers are permitted to proceed to England for the purpose of going through a course of instruction at Chatham under clause 176 of India Army Circular, dated 31st October 1887 :—

Major H. G. Kunhardt, Executive Engineer, 2nd grade

* * * * * * * *

LOCAL COMMUNICATIONS.

The 4th March 1890.

No. 71.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz, for the construction of a road from Chirkunda to Patlabari, in the direction of Telcoopee, passing through the villages of Patlabari, Jamdohi, Joonkudar, Jugrad, Dhankora, and Laikdih, pergunnah Doomurkondah, zillah Manbhoom, it is hereby declared that for the above purpose a piece of land measuring, more or less, 57 bighas of standard measurement, is required within the aforesaid villages of Patlabari, Jamdohi, Joonkudar, Jugrad, Dhankora, and Laikdih.

The mines of coal, ironstone, slate or other minerals lying under the land, except only such parts of the mines or minerals as it may be necessary to dig or carry away or use in the construction of the work for the purpose of which the land is being acquired, are not needed.

This declaration is made, under the provisions of section 6 of Act X of 1870, and section 3 of Act XVIII of 1885, to all whom it may concern.

BUILDINGS.

The 4th March 1890.

No. 72.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the expense of the Gya District Board for a public purpose viz., for the construction of the Gya District Board's office building, in the town of Gya, pergunnah Gya, zillah Gya, it is hereby declared that for the above purpose a piece of land measuring 3 beegahs 4 cottahs 10 dhors and 6 dhurkas, more or less, of standard measurement, bounded on the north by the cultivated land of Bhoona Chowdrani, on the south by the Patna Branch Road, on the east by the compound of the Opium Godown, and on the west by the compound of Mr. Howard's bungalow, is required within the aforesaid town of Gya.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

The 4th March 1890.

No. 82.—The following notification issued by the Government of India, Public Works Department, is republished for information :—

No. 94, *dated 27th February* 1890.—Mr. A. R. Jacobson, Traffic candidate, is confirmed in his appointment in the Traffic Department of the Superior Revenue Establishment, and is promoted to class III, grade 4, with effect from the 14th December 1889.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W Dept.

[Second Publication.]

RAILWAY.

The 24th February 1890.

No. 57.—It is hereby notified, under section 4 of Act X of 1870, to all whom it may concern, that a survey for a line of railway is about to be made from Sini station on the Bengal Nagpur Railway in the district of Singbhoom to Howrah, passing near the following places :—

In the Singbhoom district.

Goomharia.		Moholia.
Jugsoli.		Ghatsila.
Domjori.		Narsingurh.

Chakulia.

In the Midnapore district.

Ektal.	Soosooma
Gopalpoor	Midnapore.
Jhargoon.	Boli Chuk.
Dhangoram.	Punch Kura

Kola Ghat.

In the Howrah district.

Bagnan.	Baoria.
Moiskrika Ghât.	Rajgung Haut.
Rajapoor Haut.	Echapoor.

Howrah.

This declaration is made in supersession of this Department's Declaration No 52 of the 18th February 1890.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTIFICATION No 49Mne

The 27th February 1890.—In exercise of the powers conferred on him by section 36, clause (2) of Act X of 1889 (The Indian Ports Act), the Lieutenant-Governor is pleased to prescribe the following form for the publication by the Collectors of Cuttack and Pooree of the abstract of the account of the receipts and expenditure of the Ports of False Point and Pooree, respectively. His Honour also directs that the details in which the Port Fund accounts of those ports will be kept shall be the same as those shown in the said form.

J. M. MCNEILE, *Col.*, R E.,
Secretary to the Govt. of Bengal, P W. Dept.

Abstract Account of the Receipts and Payments, with the Opening and the Closing Balance, of the Port Fund for the year 18 .

RECEIPTS	Amount	Total	CHARGES	Amount	Total.
	Rs	Rs.		Rs.	Rs.
Opening balance			Refunds		
Port receipts—			Percentage for treasury establishment		
Port dues on vessels			Light house establishment		
Fees and fines—			Establishment		
Registration fees			Stores		
Discharge fees			Contingencies		
Salvage			General management—		
Miscellaneous—			Port Officer		
Miscellaneous receipts			Establishment		
Sundry receipts—			Travelling allowance		
Sale of charts, &c			Contingencies		
Sale proceeds of unclaimed wrecks property			Petty construction and repairs		
Other receipts			Vessels and boats—		
Mooring fees			Establishment		
			Dockyard services and supplies		
			Stores		
			Medical establishment—		
			Establishment		
			Contingencies		
			Stores		
			Miscellaneous—		
			Miscellaneous		
			Pension and gratuities—		
			Pension		
			Gratuities		
			Public works—		
			Original works		
			Repairs		
Total Receipts			Total Payments		
			Closing Balance		
GRAND TOTAL			GRAND TOTAL		

NOTIFICATION No. 50Mne.

The 27th February 1890.—The Lieutenant-Governor is pleased to appoint the gentlemen named below to be members of the Committee appointed under Resolution No. 461Marine of the 18th February 1890, published in the Supplement to the *Calcutta Gazette* of the 19th instant, to consider and advise on the arrangements that should be adopted for the working of goods traffic into and out of Calcutta after the completion of the Kidderpore Docks—

Mr. A. Simpson, of Messrs. Kilburn and Company, representing Inland Steam Companies.

Mr. J. M. McCaw, of Messrs. Kettlewell, Bullen and Company, representing the Import Trade.

Mr. N. H. T. Backer, of Messrs Ernsthausen and Company, representing the Jute Trade.

E. J. MARTIN,
Joint-Secy to the Govt. of Bengal, P. W. Dept.

NOTIFICATION—No. 51Mne.

The 4th March 1890.—It is hereby notified for general information that, in the exercise of the power vested in the Local Government by rule 21 of the Rules made under section 11 of Act XII of 1886 (the Petroleum Act), the Lieutenant-Governor is pleased to appoint the Commissioner of Police and the Deputy Commissioner of Police, Calcutta, to be the officers to grant licenses for the possession and transport of dangerous petroleum in quantities not exceeding 40 gallons, and for the possession and transport of other petroleum within the tract of country excluded under the provisions of section 1 of Act II (B C) of 1866 from the general police district of Bengal.

J. M. McNEILE, *Col*, R E.,
Secy. to the Govt. of Bengal, P. W. Dept.

NOTIFICATION—No. 58Mne.

The 4th March 1890.—In exercise of the powers conferred upon him by section 32 of Act VII of 1884 (the Indian Steam-ships Act), the Lieutenant-Governor is pleased to direct that from the 1st day of April 1890 a foreign steam-ship, having engines of under fifty nominal horse-power, shall not carry passengers from any port within the territories administered by the Lieutenant-Governor of Bengal to any other port in British India; and a British steam-ship, having engines of a like horse-power, shall not proceed from any port within the said territories to any other port in British India, or to any port or place on the continent of India, or in the Island of Ceylon, unless she has, as her engineer, a person possessing an engine-driver's certificate granted under the Indian Steam-ships Act VII of 1884, or a first or second class engineer's certificate granted under that Act, or the English Merchant Shipping Acts, 1854 to 1883, or to which the provisions of any such Acts have been made applicable under the Merchant Shipping (Colonial) Act, 1869.

J. M. McNEILE, *Col*, R.E.,
Secy. to the Govt. of Bengal P. W Dept.

[First Publication.]

NOTIFICATION No. 52Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col*, R.E.,
Secy. to the Govt. of Bengal, P W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 25).

INDIA—SOUTH.

CEYLON—SOUTH COAST.

Unsuccessful search for shoal ground south-westward of Great Basses.

THE following Notice to Mariners (No. 42 of 1890) issued by the British Admiralty is republished :—

Information having been received from Lieutenant A. Channer, R N, that during the strength of the S.-W. monsoon in 1889 the light-keeper at Great Basses had reported that he saw the sea break about 6 miles distant, on a S.-W. or S.-W. by W. bearing, from Great Basses light-house, south coast of Ceylon; also that the Master of the steam-vessel *Clan Drummond* had reported that in the S.-W. monsoon of 1888 he had seen the sea break near that position, or about where a depth of 14 fathoms is marked on the Admiralty Chart.

An examination of the locality has been made by Commander R F. Hoskyn, R N, in charge of the Marine Survey of India, in I G.S S. *Investigator*, with the following result :—

Depths of 29 to 31 fathoms were obtained between the bearings of S.-W. ½ S. and S.-W. by W., and distances of from 4 to 8 miles, from Great Basses light-house. No indications of shoal water were found, the bottom being mostly sand or coral; but enough soundings were not taken to disprove the possible existence of a rock. The whole of that neighbourhood is covered with swirls and eddies, caused apparently by the current sweeping past Great Basses, and Commander Hoskyn has no doubt that in a moderate breeze the sea would break in many places.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[First Publication.]

NOTIFICATION No. 53Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 26).

AUSTRALIA—NORTH COAST.

BATHURST ISLAND—WEST COAST.

Sunken rock westward of Cape Helvetius.

THE British Admiralty has given notice (No 43 of 1890) of the existence of a sunken rock off Cape Helvetius, west coast of Bathurst island, on which the schooner *Wanganui* recently struck :—

The position given for the rock (*Wanganui rock*) is with Cape Helvetius bearing E. by S. distant 3 miles. The depth on the rock is probably less than 6 feet. As the distance of this rock from the land depends upon estimation, its position is very doubtful.

Position, approximate, lat. 11° 40′ S. ; long 129° 56′ E

NOTE.—The attention of Mariners is directed to the cautionary Note on the Chart in this neighbourhood, and they are recommended not to approach the coast between Cape Fourcroy and Cape Helvetius within a distance of 8 miles, until further examination shall have been made.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, *Calcutta, the 3rd March* 1890.

[First Publication.]

NOTIFICATION No. 54Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 27).

RED SEA—WESTERN SHORE.

MUSAWWA CHANNEL NORTH.

Fixed light on Dïfneïn Island.

THE British Admiralty has given notice (No. 49 of 1890) that on 26th December 1889, a light was exhibited from a light-house recently erected on the north-east point of Dïfneïn island :—

The light is a *fixed white* light, visible through an arc of 295°, or between the bearings of N. 46° W., through east, and S 69° W. It is elevated 63 feet above the sea, and should be seen in clear weather from a distance of 6 miles.

The light-house, 33 feet high, is the shape of a truncated pyramid with a quadrangular base, constructed of wood, and painted white.

Position, lat. 16° 37′ 10″ N.; long 39° 18′ 45″ E.

(*Variation 4° Westerly in* 1890).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[First Publication.]

NOTIFICATION No. 55Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 28).

JAVA—NORTH-EASTERN COAST.

MADURA STRAIT.

Alterations in light on Zwantyes (Koko) reef.

THE British Admiralty has given notice (No. 55 of 1890) that the following alterations have been made in the light exhibited from Zwantyes (Koko) reef, Madura strait, eastern coast of Java :—

The light is a *flashing white* light, showing a *flash* every *thirty seconds*.
The illuminating apparatus is of the fourth order.
In other respects this light is unchanged.
Position, lat. 7° 28′ S.; long. 113° 7′ E.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[First Publication.]

NOTIFICATION No. 56Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 29).

JAPAN.

SIKOK, SOUTH COAST.

Foul ground southward of Kogi Saki-Nomi Harbour.

THE British Admiralty has given notice (No. 56 of 1890) that foul rocky ground extends for a distance of 1½ cables in a S. by E. direction from Kogi Saki, northern side of entrance to Nomi harbour :—

A rock with 5 feet on it at low water spring tides, lies at the southern extreme of this foul ground, with the following bearings :—

Nomi Saki	...	...	...	E.N.E.
Kadoya Saki in line with Maru Saki			...	W. by N ¾ N.
Kogi Saki	...	...	...	N. ½ W.

NOTE.—The western point on the northern side of the entrance to the harbour is named Maru Saki; the point 2 cables eastward, Kogi Saki; and the point southward of Nomi village, Nomi Saki. On the south side of the harbour, the point about 4 cables north-eastward of Hey Sima is named Onaga Sima; and the point 4 cables further north-eastward, Konaga Sima.

(*Variation 4° Westerly in* 1890.)

By direction of the Government of Bengal,

EATON. W. PETLEY,
Port Officer of Calcutta

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[First Publication.]

NOTIFICATION No. 57Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).
NOTICE TO MARINERS—(No. 30).

BAY OF BENGAL.

BRITISH BURMA—PEGU.

Regarding the approach to the Bassein River.

THE following information has been received from the Officer in charge of the party surveying the approach to the Bassein river :—

2½ fathoms rock were found 1·8 miles S. ¼ W. of Alguada light-house.

Also 5 fathoms 1·8 miles S. *b* W. of the light-house.

Currents strong and water much discoloured.

Pending the completion of the survey, he recommends vessels to keep at least 2½ miles to southward of the light-house, as there may be less water in the latter position—

Bearings Magnetic.

Variation 2° 50′ E.

Charts affected hereby No. C137 and 152.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 46Mne.

The 25th February 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)
NOTICE TO MARINERS—(No. 23).

AUSTRALIA—EAST COAST.

INNER ROUTE.

Sunken rock and bank eastward of Claremont No. X (Chapman) island; and non-existence of rock awash south-eastward of Young island.

THE British Admiralty has given notice (No. 31 of 1890) that the following information has been received, relating to dangers found in the Inner Route, east coast of Australia, the result of recent examinations by Lieutenant and Commander G. C. Frederick, H.M.'s Surveying Vessel *Dart*:—

(1) A sunken rock, composed of coral, with a depth of 5 feet on it at low water, is situated with Claremont No. X (Chapman) island, bearing W.S.W., distant $1\frac{9}{10}$ miles.
Position: lat. 12° 53′ S., long. 143° 39′ 15″ E.

(2) A bank, with several patches of 2½ fathoms near its western edge, extending thence more than a mile to the eastward, with patches of 4 and 5 fathoms on it, lies between the above rock and Claremont No. X island.
From the shoalest part of this bank Claremont No. X island bears W. by S., distant 8 cables.

(3) A careful search was made for the rock awash at low water, marked on the charts in a position bearing S.E., distant $1\frac{5}{10}$ miles from Young island. Depths of 12 to 14 fathoms, and a level bottom, were found all round and upon the assigned position of this rock; and at low water, and under favourable circumstances, no indications of shoal water were observed in the locality.

This rock has consequently been expunged from the Admiralty charts.
Position: lat. 12° 8′ 30″ S, long 143° 14′ E.

(*Variation 5° Easterly in* 1890.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th February* 1890.

[Second Publication.]

NOTIFICATION No. 47Mne.

The 25th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 24).

AFRICA—EAST COAST.

GULF OF ADEN.

Permanent light vessel, Aden harbour, replaced in position.

IN continuation of Notice to Mariners, No. 109, dated the 12th November 1889, issued by this office, the British Admiralty has given notice (No. 35 of 1890) that on 15th February 1890 the provisional light-vessel will be replaced by the permanent light-vessel.

The light will be (as previously) a *flashing* white light, showing a flash *every minute*, and elevated 39 feet above the sea.

The light-vessel, moored in 18 feet at low water, is painted red, but will not carry a red ball at the masthead, nor hoist a red flag during the day.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th February* 1890.

[Third Publication.]

NOTIFICATION No. 41Mne.

The 17th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 21).

BAY OF BENGAL.

BURMA COAST.

Regarding Savage island light; and a white light on Fakir Point.

IN continuation of Notice to Mariners, Nos. 17 and 18, respectively dated the 4th February 1890, information has been received from the Port Officer, Rangoon, that the transferring of the light on Savage island to the temporary structure having been completed, that light will be exhibited as before. A white light will also be shewn from Fakir Point to guide vessels leaving or entering the port at night.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 15th February* 1890.

[Third Publication.]

NOTIFICATION No. 42Mne.

The 17th February 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT,—(MARINE).

NOTICE TO MARINERS (No. 22).

BAY OF BENGAL.

ORISSA COAST.

Inner bar buoy replaced in position.

IN continuation of Notice to Mariners, No. 2, dated the 4th January 1890, issued by this Office, information has been received from the Collector of Customs, Balasore, that the Inner bar (red) buoy has been replaced in position.

By direction of the Government of Bengal,

OLIVER LASH,
for Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 15th February* 1890.

EASTERN BENGAL STATE RAILWAY.

NOTIFICATION.

No. 3.—Mr. W. H. James, Assistant Traffic Superintendent, has been granted three months' privilege leave under Articles 277 to 291 of the Civil Service Regulations, with effect from 11th April 1890, or such subsequent date as he may avail himself of the same.

G. BOUGHEY, *Lieut.-Col., Manager.*

The 27th February 1890.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 3161.—*The 28th February* 1890.—Assistant Surgeon Ramkali Gupta, Teacher of Anatomy and Surgery, Temple Medical School, Patna, and in medical charge of the Bankipore Hospital, is allowed leave for two months, under Article 291 of the Civil Service Regulations.

A. HILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

HIGH COURT NOTICE.

CIRCULAR ORDER ISSUED BY AUTHORITY OF THE HIGH COURT OF JUDICATURE AT FORT WILLIAM IN BENGAL.

CIVIL.

No. 4, dated Calcutta, the 11th February 1890.

30A. (*a*).—[*Certain information to be furnished to the Collector in order to improve the accuracy of Land Registration—C. O. No.* 5 *of 29th March* 1889.]—

Whenever an application for certificate or letters of administration or for probate in respect of any Revenue-paying estate is made to any District Judge, or District Delegate appointed under Act VI of 1881, such officer shall send information of such application to the Collector of the district in which it is made, or in which the estate, or any part thereof, is situated.

In clause (*a*) of Rule 30A, Chapter V, page 278, Civil Rules and Orders—

Between the words "Revenue-paying estate" and "is made," insert the words—

"or Revenue-free property."

SMALL CAUSE COURT NOTICE.

UNDER section 7, Act IX of 1887, notice is hereby given that the Small Cause Court Judge of Dacca and Munshigunge will hold his sittings at Munshigunge from the 17th to the 23rd of March next, and the rest of the days of the month at Dacca, Sundays and holidays excepted.

K. C. CHATTERJI, *1st Sub-Judge, for District Judge.*

DACCA, *the 24th February* 1890.

TREASURY NOTICES.

UNCOVENANTED DEPUTY COLLECTOR BABOO JAGAT DULHAB BYSAK has been placed in charge of the Cuttack Treasury, and is authorized to draw bills on other treasuries.

C. F. WORSLEY, *Commissioner.*

COMMR.'S OFFICE, ORISSA DIVN., CUTTACK, *the 22nd February* 1890.

UNCOVENANTED DEPUTY COLLECTOR BABOO KEDAR NATH DUTT was in charge of the Cuttack Treasury from 27th January 1890 to 15th February 1890, and was authorized to draw bills on other treasuries.

C. F. WORSLEY, *Commissioner, Orissa Division.*

COMMR.'S OFFICE, ORISSA DIVN., CUTTACK, *the 24th February* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 3rd March 1890.—Babu Rajkrishna Gupta, Assistant in the Office of the Director of Public Instruction (class VI), is appointed to act in class V, with effect from the 3rd February 1890, *vice* Babu Adhar Chandra Mookerjea, on leave.

Babu Surendra Nath Banerjea, Assistant in the Office of the Director of Public Instruction (class VII), is appointed to act in class VI, with effect from the 3rd February 1890, *vice* Babu Rajkrishna Gupta.

Babu Hira Lal Mookerjea, Assistant in the Office of the Director of Public Instruction, is appointed to act in class VII, with effect from the 3rd February 1890, *vice* Babu Surendra Nath Banerjea.

A. CROFT, *Director of Public Instruction.*

NOTIFICATION OF THE BOARD OF REVENUE.

No. 304B.

NOTICE is hereby given that the Fourth Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Wednesday, the 2nd April 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 7th and 17th April 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 3-30 P.M. of Monday, the 7th April 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Thursday, the 7th April 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale up to December next about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.	Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Thursday, 1st May 1890 ...	2,250	2,500	4,750
On or about Monday, 2nd June ,, ...	2,250	2,500	4,750
On or about Wednesday, 2nd July ,, ...	2,250	2,500	4,750
On or about Monday, 4th August ,, ...	2,250	2,500	4,750
On or about Monday, 1st September ,, ...	2,250	2,500	4,750
On or about Wednesday, 1st October ,, ...	2,250	2,500	4,750
On or about Monday, 3rd November ,, ...	2,250	2,500	4,750
On or about Monday, 1st December ,, ...	2,250	2,500	4,750
TOTAL ...	18,000	20,000	38,000

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 25th February* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IN supersession of notification, dated 21st December 1889, published at page 1090, Part I of the *Calcutta Gazette* of 25th December 1889, it is notified for general information that an election will be held, under section 27 of the Municipal Act III (B.C.) of 1884, on 21st March 1890, in Ward No IV. of the Pubna Municipality, for the purpose of electing a Commissioner in the place of Baboo Sharada Nath Mozumdar, who has ceased to be a Commissioner under section 20 of the Act.

HARI MOHUN CHANDRA, *for Commissioner.*

COMMR.'S OFFICE, RAJSHAHYE DIVN., JULPIGOREE, *the 25th February* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the election held, under section 27, Act III (B.C.) of 1884, on Tuesday, the 4th February 1890, Baboos Jagat Chundra Banerjya and Atal Chunder Mukharjya have been elected Commissioners for Wards Nos. II and III respectively of the Bally Municipality, in the district of Howrah, *vice* Baboos Nanda Lal Bhattacherjee and Shib Chundra Chatterjee, deceased.

N. S. ALEXANDER, *Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 22nd February* 1890.

NOTIFICATION.

The 25th February 1890.—It is hereby notified for general information, under Rule 37 of the Election Rules, that Baboo Kali Narain Sen was on the 8th instant duly elected under section 27 of Act III (B.C.) of 1884 to be a Commissioner for Ward No. III of the Narainguge Municipality, in the district of Dacca, *vice* Mahamed Per Baksha, who has ceased to be a Commissioner under section 20 of the Act.

A. L. CLAY, *Offg. Commissioner.*

The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS—JUDICIAL.

The 27th February 1890.

No. 242.—The Honourable E J. Trevelyan, Barrister-at-Law, a Judge of the High Court of Judicature at Fort William in Bengal, has obtained furlough on urgent private affairs from the 20th March to the 16th September 1890, both days inclusive.

No. 245.—The Honourable H. Beverley, a Judge of the High Court of Judicature at Fort William in Bengal, has obtained furlough from the 11th April to the 16th September 1890, both days inclusive, together with the usual subsidiary leave.

C. J. LYALL,
Offg. Secy. to the Govt. of India.

The following orders, issued by the Government of India in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 28th February 1890.

LONDON GAZETTE.

No. 205.—The following extracts are published for general information:—

"London Gazette," dated the 4th February 1890, *pages* 606 *and* 607.

India Office, 4th February 1890.

The Queen has approved of the following promotions among the officers of the Staff Corps and Indian Military Forces made by the Governments in India:—

INDIAN ARMY.

To be Colonels.

* * * * * * * *

Lieutenant-Colonel William Hopkinson, Bengal Infantry. Dated 20th December 1889.

* * * * * * * *

VOLUNTEER CORPS.

APPOINTMENTS.

No 210. *Behar Light Horse*—

Mr. Roderick Macrae to be Second Lieutenant, with effect from the 2nd January 1890, *vice* Howard, promoted.

PROMOTIONS.

No. 213.—*Behar Light Horse*—

Lieutenant William John Howard to be Captain, with effect from the 2nd January 1890, *vice* Macnamara, resigned.

RESIGNATIONS.

No. 214 —*Behar Light Horse*—

Captain John Macnamara resigns his commission, with effect from the 2nd January 1890.

E H. H COLLEN,
Secretary to the Govt. of India

The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 26th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant Governor is pleased to appoint Baboo Sasi Bhushan Chakravarti to be a Commissioner of the Raneegunge Municipality, in the district of Burdwan, *vice* Baboo Haran Chandra Bose, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 26th February 1890.—It is hereby notified that, under section 22, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to re-appoint Mr. A. V. Knyvett to be a Commissioner of the Darjeeling Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 26th February 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. H. G. Tayler, Dr. J. O'Brien, Civil Surgeon, Mr. W. Sinclair, and Captain G. Graham to be Commissioners of the Darjeeling Municipality in the places, respectively, of Surgeon-Major L A Waddell, Brigade-Surgeon, J. G. Pilcher and Mr. H. Birch, who have ceased to be Commissioners under section 20 of the Act, and Dr. T. Briscoe, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th February 1890.—The following list, showing (*a*) the number of members fixed by the Lieutenant-Governor under sections 7 and 8 of the Bengal Local Self-Government Act, 1885, for the District and Local Boards established in the district of Rungpore, and (*b*) the number of members of the District Board to be elected by each of the Local Boards in the district, is published for general information :—

District Board of	Number of members fixed for the District Board.	Local Board of.	Number of members fixed for the Local Board.	Number of members of the District Board to be elected by the Local Board.
Rungpore	20	Rungpore	12	4
		Kurigram	6	2
		Nelphamaree ...	6	2
		Gaibanda	6	2

This notification cancels the notification, dated 15th March 1887, fixing the strength of the District and Local Boards in Rungpore, which was published at page 83, Part IB of the *Calcutta Gazette* of the 16th idem.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 28th February 1890.—It is hereby notified that, under section 27, Act III (B.C) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Jagodindra Deb Raikat to be a Commissioner of the Julpigoree Municipality, *vice* Baboo Haramohun Das, who has ceased to be a Commissioner under section 20 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st March 1890.—It is hereby notified for general information that, in exercise of the power vested in him by section 139, clause 2 of Act III (B.C.) of 1885, the Lieutenant-Governor confirms the bye-laws set forth below, which have been framed by the District Board of Gya under clause 1 of the said section.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

BYE-LAWS.

1. "Road" in these rules means any road under the control of the District Board, or any Local Board, and includes its slopes and side drains and all land, the property of the said Board, attached to it.

2. Any person obstructing or trespassing upon any such road, by means of buildings, huts, or fences, or otherwise, shall be liable to a fine not exceeding Rs. 10, and to a further fine not exceeding Rs. 2, for every day that the obstruction or trespass is continued after the imposition of the said fine.

3. Any person allowing cattle to graze, or tethering a horse, pony, goat, sheep, or pig or any cattle on or in such a manner that it can stray on to any such road, or any person leaving a carriage or cart without a driver on any such road, so as to cause inconvenience or danger to the public, shall be liable to a fine not exceeding Rs 5.

4. Any person placing any articles for sale on any such road without the previous sanction of the Board shall be liable to a fine not exceeding Rs. 10, and to a further fine not exceeding Rs. 2 for every day that the obstruction continues after the imposition of the said fine.

5. Any person destroying or damaging or allowing any horse, pony, goat, sheep, pig or any cattle, within his possession or control, to destroy or damage any tree under the charge of the District Board, or any Local Board, shall be liable to a fine not exceeding Rs. 50.

6. Any person plucking the fruit of a tree in charge of the District Board, or any Local Board, shall be liable to a fine not exceeding Rs. 4.

7. Any person erecting a culvert or bridge over a roadside drain, without the previous sanction of the Board, shall be liable to a fine not exceeding Rs. 50, and to a further fine not exceeding Rs. 2, for every day that such culvert or bridge is allowed to remain, after conviction of the above offence, and after notice to fill in or remove the same, as the case may be, has been duly served on him.

8. Any person forcing his way or driving any animal or vehicle over a road, bridge, culvert or canal which, in course of construction or repair, is closed for such traffic under the orders of the District Board, or any Local Board, or of the District Engineer, shall be liable to a fine not exceeding Rs 10, in addition to any compensation for the damage caused by him which may be awarded by a court of competent jurisdiction, provided that a passage is given to the traffic through another part of the road or otherwise.

9. Any person in possession of, or having control over, any trees, bamboos, or hedges overhanging any such road, within 12 feet above the surface of the road, shall, on receipt of a notice signed by the Chairman or Vice-Chairman of the District Board or of the Local Board concerned, or by the District Engineer, remove the overhanging portions of such trees, bamboos, or hedges in such manner as he may be required to do by such notice, and in default thereof shall be liable to a fine not exceeding Rs. 10, and to a further daily fine not exceeding Rs. 2, until such notice shall have been properly complied with.

10. Any person driving a carriage, or cart, or an elephant on any such road between sunset and sunrise shall carry at least one clear and conspicuous light, except on clear moonlight nights, and for an infringement of this rule shall be liable to a fine not exceeding Rs. 5.

11. Any person who, without the permission of the Chairman or Vice-Chairman of the District Board, or of the Local Board concerned, or of the District Engineer, makes any excavation in, or cuts any part of any such road, or takes earth from its slopes or side drains, shall be liable to a fine not exceeding Rs. 25.

12. Any person washing in, or otherwise fouling a tank or well reserved for drinking purposes by the District Board, or Local Board, shall be liable to a fine not exceeding Rs. 25, and to a further fine not exceeding Rs. 50 for a repetition of the offence.

13. The owner or occupier of any tank, well, or other excavation, on or near the side of any such road, who, after due notice, fails or neglects to fence in, or duly protect, such well, tank, or other excavation, in such manner as may be directed by the District or Local Board, shall be liable to a fine not exceeding Rs. 50, and to a daily fine, for continuance of such failure or neglect after conviction, not exceeding Rs 5.

14 Any person steeping jute, hemp, or any other offensive matter in any roadside drain under the control and administration of the District Board shall be liable to a fine not exceeding Rs. 10.

15. Any person throwing or laying down or allowing to be thrown or laid down without the previous sanction of the District or Local Board concerned, earth, dirt, filth, rubbish, stone, or building materials, on any such road or into any such drain, shall be liable to a fine not exceeding Rs. 10, and to a further fine not exceeding Rs. 2 for every day that the offence is continued after the imposition of the said fine.

16. Any person keeping any horse, cattle, cart or other conveyance standing on any such road longer than is required for the purpose of loading or unloading or taking up or setting down passengers, or doing any other act, in such a manner as to cause danger, inconvenience, or obstruction to the public, shall be liable to a fine not exceeding Rs. 10.

17. Any person slaughtering any animal on any such road shall be liable to a fine not exceeding Rs. 5.

18. Any person removing soil or turf from any such road or drain, or uprooting or cutting grass on any such road, shall be liable to a fine not exceeding Rs. 5.

19. Any person easing himself or making water on or near such road, or in any such drain, shall be liable to a fine not exceeding Rs. 5.

20. Any person failing to observe the rule of the road by not keeping on the left while riding or driving shall be liable to a fine not exceeding Rs. 10.

21. Any person allowing any elephant in his charge to pass over any bridge unless the same be of arched masonry shall be liable to a fine not exceeding Rs 50.

22. Any person leading or driving any cart up or down the slopes of any such road, except at crossings fixed by the Board or the District Engineer, provided crossings have been fixed sufficient to meet the traffic and convenience of the public, shall be liable to a fine not exceeding Rs. 5.

23. Any person injuring or in any way damaging any structure, permanent or temporary, belonging or attached to any such road, the property of the District Board, by any negligent, careless, or wilful act, shall be liable to a fine not exceeding Rs. 50.

24. Any person who allows an elephant or camel to remain or proceed upon or near any such road, upon the approach of any person riding, driving, or leading a horse, and does not remove it immediately therefrom to a safe distance, shall be liable to a fine not exceeding Rs. 20.

25. Any person who cures hides within two hundred yards of any such road shall be liable to a fine not exceeding Rs. 20.

NOTIFICATION.

The 1st March 1890.—It is hereby notified that, under section 22, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to re-appoint Captain J. C. Warne to be a Commissioner of the Darjeeling Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION

The 3rd March 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the District Board of Pubna:—

Local Boards by which elected.			Names of members.
Pubna	...	...	Baboo Protab Chandra Rai. „ Jadab Chandra Bhattacharjee. „ Nogendro Nath Sanyal. „ Umesh Narayan Chaudhuri.
Serajgunge	...	...	Baboo Pran Chandra Pakrashi. „ Mohesh Chandra Dass. „ Chandra Narayan Ghosh. „ Durga Kanta Sen

The following gentlemen are appointed, under section 7 of the Act, to be members of the Board:—

The Sub-divisional Officer of Serajgunge,
„ Civil Medical Officer of the district,
„ Deputy Inspector of Schools,
} *Ex-officio.*
Mr. T. Brae.
„ Cuthbert Macdonell.
Moulvi Ismail Chaudhuri.
Baboo Durga Nath Bagchi.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 3rd March 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Khoorda Local Board, in the district of Pooree, under section 25 of Act III (B.C.) of 1885, of Mr. A. J. Fraser, Sub-divisional Officer, to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 4th March 1890.—Under the provisions of section 15, Act III (B.C.) of 1884, the following statement showing the number and extent of the wards into which the Pooree Municipality will be divided for the purposes of the election of Commissioners under section 14, and the number of Commissioners to be elected for each ward, is published for general information. This notification supersedes the notification dated 13th October 1884, published at pages 1882-92 of the Supplement to the *Calcutta Gazette* of the 22nd October 1884, so far as the Pooree Municipality is concerned :—

District.	Name of Municipality.	Number of Wards.	Boundaries or extent of each Ward.	Number of Commissioners to be elected for each Ward.
Pooree ..	Pooree ...	5	Ward No. I, which comprises Balisahi, Matimandap Sahi, and Kalikadavee Sahi, is bounded on the North by Dolmandap and Dakhindwar roads ; on the East by the sea ; on the South by the Balikband sandy waste ; and on the West by the Harachandi Sahi road.	2
			Ward No. II, which comprises Gourbar Harachandy and Baseli Sahis and Lokanath Ghat, is bounded on the North by Markanda Sahi, Balibharatpur and Mogla Ghat ; on the East by Balisahi and Pachindwar road ; on the South by the Balukhanda waste lands ; and on the West by the river Sunamuhi.	2
			Ward No. III, which comprises Markanda Sahi, Churang Sahi, Balibharatpur and Mogla Ghat, is bounded on the North by Matitola village and the Metiani road ; on the East by the Bardand ; on the South by the temple of Jagannath, Baseli Sahi and Parbatipur ; and on the West by the Sunamuhi river.	2
			Ward No. IV, wherein are comprised Kundhaibent and Dolmandap Sahis, is bounded on the North by the Armstrong road ; on the East by the sea ; on the South by Ward No. I ; and on the West by the Baradand.	2
			Ward No. V, which comprises Dandimal, Doitapara, Kumarpara, Matiapara, Mahanti Sahi, Narsing Ballhabpatna, Chasa Sahi, Chamar Sahi, Mahabirpatna, Kumutipatna, Tikarpara and Bali Ghat, is bounded on the North by the Balukhand waste lands ; on the East also by the Balukhand waste lands ; on the South by Balisahi ; and on the West by Ward No. III and the Matia river.	2

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 4th March 1890.—Assistant Surgeon Satyahari Chatterjea is appointed to be Deputy Superintendent of Vaccination in the Eastern Bengal Circle, with effect from the 1st January 1890.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 1st March 1890.—It is notified for general information that the delaration dated the 17th June 1889, published at page 130, Part IB of the *Calcutta Gazette* of the 26th idem, for the acquisition of a plot of land required by the Calcutta Municipality for completing the new road in Rajabagan within that Municipality, is hereby cancelled.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 1st March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for acquiring portions of a passage for completing the new road in Raja Bagan, it is hereby declared that for the above purpose two pieces of land, viz., portion of a passage at Raja Bagan, leading southward from Grey Street, in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 2 cottahs 3 chittacks and 25 square feet only, are required.

The boundaries of the land are as follows :—

Portion marked A on plan.—On the North premises No. 56-20, Grey Street, acquired by the Corporation of Calcutta; on the South premises No. 56-1, Grey Street, and a common passage; on the East premises Nos. 56-18, 56-17, 56-16-2, and 56-16-1, Grey Street, acquired by the Corporation of Calcutta, and a common passage; and on the West by premises Nos. 56-3, 56-2, and 56-1, Grey Street, acquired by the Corporation of Calcutta, and a common passage.

Portion marked B on plan.—On the North and East a common passage; on the South premises No. 79-2, Cornwallis Street, acquired by the Corporation of Calcutta; and on the West premises No. 56-7, Grey Street, acquired by the Corporation of Calcutta.

The plan and specifications of the land to be acquired are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt of Bengal.

DECLARATION.

The 3rd March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for widening Moyarpore Road in Chetla, it is hereby declared that for the above purpose pieces of land No. 44, Chetla Road, Nos. 69, 68, 65, 67, 64B, 64, 63, 62, 61, 57, 56, 55, 54, 53, 52, 51, 50, 49, and 48, Moyarpore Road, No. 17, Subjee Bagan Lane, and No. 2, Moyarpore Lane in Chetla, pergunnah Magura, district 24-Pergunnahs, measuring, more or less, 10 bigahs 6 cottahs and 4 chittacks only, are required.

The boundaries of the land are as follows:—On the North partly Chetla Road and Dwarka Nath Ghose's Lane, and partly Moyarpore Road and portion of premises No. 51, Moyarpore Road; on the South partly Moyarpore Road and Dwarkanath Ghose's Lane, and partly Moyarpore Lane; on the East partly portions of premises No. 44, Chetla Road, and Nos. 69, 68, 65, 64B, 64, 63, 62, 61, 57, 56, 55, 54, 53, 52, 51, 50, 49, and 48, Moyarpore Road, and partly portions of No. 17, Subjee Bagan Lane, and No. 2, Moyarpore Lane; and on the West by Moyarpore Road.

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 3rd March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for a pumping-station, it is hereby declared that for the above purpose pieces of land, Nos. 1 and 5, Woolfut Bagan Road, Nos. 15, 15A, 15B, 16, 17, 18, 18A, 20, 21, and 21A, Lansdowne Row, and Nos. 119, 120, and 121, Russa Road, in Bhowanipore, Dihi Punchannogram, district 24-Pergunnahs, measuring more or less 41 bigahs 4 cottahs and 13 square feet only are required.

The boundaries of the land are as follows :—

Portion marked A on plan.—On the North partly by Lower Circular Road and partly by Nos. 236, 237, 238, 239, and 240, Lower Circular Road; on the South by Woolfut Bagan Road; on the East by portion of No. 1, Woolfut Bagan Road; and on the West partly by Nos. 236 and 240, Lower Circular Road, partly by No. 123, Russa Road, and partly by Russa Road.

Portion marked B on plan.—On the North by Woolfut Bagan Road; on the South partly by Nos. 118 and 114, Russa Road, partly by portion of No. 22, Lansdowne Row, and partly by Lansdowne Row; on the East by portion of No. 5, Woolfut Bagan Road; and on the West partly by Russa Road, partly by portions of Nos. 118 and 114, Russa Road, and partly by No. 22, Russa Road.

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 3rd March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for a new road B in Chetla, it is hereby declared that for the above purpose pieces of land, Nos. 36, 37, 37A, 38, and 39, Chetla Road, Nos. 5, 7, 8, 65, 67, and 68, Moyarpore Road, Nos. 5, 6, 9, 7, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, and 21, Pitambur Ghuttuck's Lane, and No. 60, Tallyganj Circular Road in Chetla, pergunnah Magura, district 24-Pergunnahs, measuring, more or less, 24 bigahs and 12 chittacks only, are required.

The boundaries of the land are as follows:—

Portion marked A on plan.—On the North portions of premises No. 60, Tallyganj Circular Road, and Nos. 18, 19, and 21, Pitambur Ghuttuck's Lane; on the South and East Pitambur Ghuttuck's Lane; and on the West partly Tallyganj Circular Road and partly portions of No. 60, Tallyganj Circular Road, and Nos. 15, 18, and 19, Pitambur Ghuttuck's Lane.

Portion marked B on plan.—On the North partly portions of premises Nos. 5, 7, 12, and 9, Pitambur Ghuttuck's Lane, portions of No. 5, Moyarpore Road, and No. 6, Moyarpore Road, and partly Pitambur Ghuttuck's Lane; on the South portions of premises Nos. 17, 16, 15, 13, 12, 11, 10, and 9, Pitambur Ghuttuck's Lane, No. 1, Jaynuddin Mistry's Lane, and portion of No. 8, Moyarpore Road; on the East partly Moyarpore Road and partly portion of No. 5, Moyarpore Road, and Nos. 9 and 13, Pitambur Ghuttuck's Lane; and on the West partly Tallyganj Circular Road, partly Pitambur Ghuttuck's Lane, and partly portions of Nos. 12 and 15, Pitambur Ghuttuck's Lane, and No. 5, Moyarpore Road.

Portion marked C on plan.—On the North portion of premises No. 68, Moyarpore Road, and Nos 39 and 40, Chetla Road; on the South portions of Nos. 37 and 36, Chetla Road, and Nos. 68 and 65, Moyarpore Road; on the East partly Chetla Road and partly No. 39, Chetla Road; and on the West partly Moyarpore Road and partly No. 68, Moyarpore Road.

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 3rd March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for a new road A in Chetla, it is hereby declared that for the above purpose pieces of land Nos 13 and 10, Chetla Road, Nos. 1, 3, and 4, Subjee Bagan Lane, Nos. 54, 15, 16, 17, 18, and 19, Moyarpore Road, Nos. 7, 8, 9, 10, and 11, Mohesh Chandra Dutt's Lane, No. 42, Tallyganj Circular Road, and No. 82, Garden Reach Road in Chetla, pergunnah Magura, district 24-Pergunnahs, measuring, more or less, 27 bigahs, 16 cottahs and 8 chittacks only, are required.

The boundaries of the land are as follows:—

Portion marked A on plan.—On the North portion of premises No. 42, Tallyganj Road, Nos. 7 and 11, Mohesh Chunder Dutt's Lane, and Nos. 15, 17, and 16, Moyarpore Road; on the South portion of premises No. 82, Garden Reach Road, Nos. 8, 9, 10, and 11, Mohesh Chandra Dutt's Lane, and Nos. 18 and 19, Moyarpore Road; on the East Moyarpore Road and portions of premises Nos. 11, 8, 9, and 10, Mohesh Chandra Dutt's Lane; and on the West Tallyganj Circular Road and portions of premises No. 42, Tallyganj Circular Road and Nos. 7, 8, 9, and 10, Mohesh Chandra Dutt's Lane.

Portion marked B on plan.—On the North portion of premises No. 54, Moyarpore Road, Nos. 4, 3, and 1, Subjee Bagan Lane, No. 13, Chetla Road and Subjee Bagan Lane; on the South portion of premises No. 54 Moyarpore Road, Nos. 4, 3, and 1, Subjee Bagan Lane, and Nos. 10 and 13, Chetla Road; on the East Chetla Road and portions of No. 4, Subjee Bagan Lane and No. 13, Chetla Road; and on the West Moyarpore Road and portions of No. 54, Moyarpore Road and No. 1, Subjee Bagan Lane

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 4th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for the deviation line of the new Central Road from Hooghly Bridge to Sealdah, it is hereby declared that for the above purpose pieces of land Nos. 80-3 and 81, Cross Street, in the Town of Calcutta, district 24-Pergunnahs, measuring, more or less, 8 cottahs and 4 chittacks, are required.

The boundaries of the land are as follows :—

On the North and East premises Nos. 80-2 and 80-1, Cross Street, already declared for the Central Road; on the South Cross Street; and on the West premises No. 82, Cross Street.

Plan and specifications of the land are filed in the Office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 10th February 1890.—Mr. S. N. Banerjee, Sub-Deputy Collector, is appointed to be a Special Deputy Collector for employment on revaluation work under the Cess Act IX (B.C.) of 1880 in the district of Rajshahye.

H. J. S. COTTON,
Offg. Secy. to Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas	Annual assessment.	Upset price.	Boundaries.	Remarks
				B. K. CH.	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahalapara in Bartoil.	Mohamedahahye.	31 7 14	12 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Banesh Chandra Sarkar of Belgachi and dwelling house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi	Aujongachi	Taragoonlah	394 1 10	93 0 0	2,986 11 0	West of the dwelling-houses of Chuni Sheak and Nabin Mandal Ghose and others, ryots of the zemindars of Chitna; north of the nij-jote lands of the aforesaid zemindars; east of the confines of Khairpur; south of the nij jote lands of the aforesaid zemindars	Mourashi jote of Banesh Chandra Sarkar of Belgachi.
3	Dak Adda ..	Kulberia ...	Plassey ...	1 4 8	3 1 8	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Punchanan Rai, west of jote lands of Bani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. BOSE, for Collector.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bhagulpore will be put up to sale at the Bhagulpore Collectorate, on Monday, the 31st day of March 1890, corresponding with 25th Choitra 1297 Fusli.

The purchasers will be subject to the following conditions of sale.

Conditions of Sale.

1. The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

3. If the amount of purchase-money do not exceed Rs 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled, the sum deposited being forfeited to Government and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

Number on district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Upset price.	Remarks.
		Acres.	Rs.	Rs.	
4981	Kolakhurd Bhatatar, pergunnah Bhagulpore.	3	10	20	

Bhagulpore Collectorate, the 25th February 1890. A. A WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Saltpur.	2,124 4 7	.....	Share No. 1, 3as. 3g 2a. 16f.	Shital Nath Bhanga and others.	420 2 8	.....	22 5 6
127-1	Kismut pergunnah Bhaluka	14,043 15 8	.....	Share No. 1, 4g. 13-5-8-1	Grijanath Ray Chowdhury and others	224 13 5	... ..	31 10 8
159-4	Kismut Ramdanna, pergunnah Sarpur.	549 13 8	.....	Share No. 4, 8as. ..	Haran Chandra Majumdar and others.	68 11 8	.....	15 3 2
170-3	Kismut pergunnah Selimabad	5,784 6 6	.....	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 9	.....	310 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banamch Mahadev Mukhopadhya.	10,708 0 1½	.....	Residue share' ...	Hara Sundari Chaudhurani and others.	8,973 5 4½	... ..	3,634 7 4½
				Hisya 2a. 13g. 1kr. 1kt.	Monindra Nath Mukhopadhya and others.	1,794 10 9	.....	725 9 7
193	Pergunnah Rajnagar, tuppeh Hossainabad Jawar Hyderabad Khachuk Patrash market.	638 5 4½	Entire estate.	.....	Sukh Moy Chandra Das himself and manager for Gour Hari Das and others.	.....	99 13 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen Chakla Nurpur Hurunnessa.	703 9 11½	.....	Residue share ...	Hueni Khanam and others	261 13 6½	.....	78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	... ..	Hisya 2g. 3kr. 3kt.	Durga Sunker Sen ...	5 7 9	.....	2 3 1
272	Pergunnah Shahebabad Ray Peshkash Dewani, Banamch Mirza Hyderali.	533 5 4	.....	Residue share ...	Rajendra Narain Bandapadhya.	133 5 1	.....	83 7 1
				Hisya 1a. 11½g. ...	Ditto ditto ..	33 1 4	.....	28 0 9
285	Tuppeh Moheswardi, Banamch Saha Nawaj Khan, Elahi Nawaj Khan.	14,133 5 4½	.. ...	Hisya 18g. 1kr. 1kt. 6t Ananda Mohon, Hari Mohon and Krishna Mohon Das.	Ananda Mohon Das and others.	677 2 6	.....	193 3 9
292	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 5a. Radha Madhav.	1,452 0 1	.	Residue share ...	Nanda Kumar Guha...	425 6 1½	.....	190 11 6
293	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen hisya 5a. Raj Kishore Sen.	1,452 9 1	.....	Ditto ...	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	146 0 7
334	Pergunnah Bhawal Jawar Nalunkot, taluq Sridar Hari Rati, Krishna Ram Chakraverty.	544 0 9	. .	Ditto ..	Joy Chandra Chaudhury and others	74 15 9½	.....	43 12 2½
				Hisya 1a Banga Chandri, Hari Sundara Chakraverty	Banga Chandra Chakraverty and others.	34 0 0	.....	14 5 0½
				Hisya 9a. 2kr. 1kt. Brahmya Mayi Debya	Brahmya Mayi Debya	16 4 8	.....	14 1 1
352	Pergunnah Mohanak Ujlat, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	386 6 9½	.....	74 12 3
363	Shahar Chamrina Mahalanik Sk Chandina, Maulvi Abdul Ali	1,898 10 8	.....	Ditto ..	Protap Chandra Das and others.	664 8 2	.....	170 0
369	Pergunnah Bikrampur, taluq Ram Gurpa Kasu.	684 3 0	.....	Ditto .	Sitamani and others ..	256 9 0	.....	95 0 0
6819	Pergunnah Patpashar, taluq Golam Hosen Chaudhuri.	930 3 11½	.....	Ditto ...	Amirannessa Khatoon, Manager for Maulvi Abdul Hye and others.	350 1 9	.....	86 13 11
				Hisya 1½a. Najbannessa and others.	Najbannessa and others.	37 8 5	.....	9 9 10
				Hisya 3a. 2g. 1kr. 1½g. Hamidannessa and others.	Hamidannessa Khatoon and others.	181 13 2	.....	55 11 11
8849	Pergunnah Hashara Raja Ram Chaudhuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	.....	1 13 0	.....
8851	Pergunnah Rajnagar, taluq Dil Prosad Ghosh.	642 2 1½	.....	Residue share ...	Kala Chand Shaha and others.	535 1 8½	.....	40 1 5
8854	Char Baktabali	584 0 0	Entire estate.	.....	Pran Nath Pare and others.	.....	153 0 0	.....
8860	Tuppeh Amirabad, Estate No. 284	760 4 1½	Ditto	.. .	Abhay Charan Das and Brojendra Kumar Rai Chaudhuri.	.....	72 14 3	.....
8869	Char Fukurhati within Char Krishnapura.	819 0 0	Ditto ..	...	Kripa Mayi Debya and others.	.....	7 2 0	.....
8883	Mouzah Golara Taluchari within Char Jalua Kamta.	752 0 0	Ditto ..	.....	A. M. Bhoogy Shaheb, Receiver.	.....	149 0 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	... ..	Kailash Bashini and Bindhu Bashini Chaudhurani and others.	.....	290 0 0	.....
9762	Pergunnah Burdakhat Char Dolwarpur.	4,196 0 0	Ditto ...	.....	Joharuddin Hyder and others.	.....	1,052 0 0	... ..

Dacca Collectorate, the 8th February 1890. L. HARE, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st.*—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd.*—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force ; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed
		A. R. P.	Rs.
98	Kismut Jot Kusturi, pergunnah Kotuali	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
53	Shahapur, pergunnah Joynugal.	5,490 7 0	.....	2*a.* 13*g.* 1*k.* 1 *krantí*	Choudhuri Mahomed Ichcha and others.	581 11 8	.. .	4 7 0
75	Turigram, pergunnah Shahajapur.	1,508 0 0	The whole	.....	Shekh Tarikulla ...	.....	0 2 0	.....
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0	.....	8*a.*	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	18 1 6
109	Dasrka, pergunnah Ichchapukhuria.	1,803 1 0	.....	13*a.* 17*g.* 2*k.* ...	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy, minor, and others.	1,563 9 8	.....	3 10 1
178	Bajitpur, pergunnah Akbarshahi.	2,996 1 0	.....	9*a.* 8*g.* 1*k.* 8 *til.*	Nil Madhab Roy and others.	1,760 13 11	.....	14 4 6
986	Palitpur Basantapur, pergunnah Dalshahi.	751 10 0	The whole	.....	Ratan Kumari Bibi and others.	.....	218 8 0	.....

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy. Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Durbhunga will be put up to public and unreserved sale at the Collector's Office of that district on the 15th March 1890, corresponding with 9th Chait 1297F., on Saturday, at 12 o'clock, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 18th January 1890.

Serial No.	Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold the arrears due from it.
			Rs. A. P.				Rs. A. P.		Rs. A. P.
1	427	Erazi Gang Barar Hurdaspore, pergunnah Bala Gutch.	547 2 10	.....	Patti ijmali 9 annas 12 gundas.	Mosamat Jasoda Koer, mother and guardian of Adya Parshad Singh, Baboo Sital Parshad Singh, Shew Gulam Singh, Singhes n Parshad Singh, Nar Singh Parshad, Chitar Narain Singh, Kunj Narain Singh and others.	368 8 8	.....	308 8 4

Durbhunga Collectorate, the 12th February 1890. A. AHMAD, Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Choitra 1296 (B S), for the First ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Tuppeh Azimpur, hissa 8a. 19g.	3,431 4 4½	.....	Joint share, 6a. 10g. 3k. 1½ 10.	Asmat Ali Khan Choudhury and others.	917 7 6½	.....	6 10 10
1414	Taluq Bancha Ram Bosu, hissa 8a., pergunnah Bozergomedpur.	1,560 5 3	.....	3a. under separate account.	Dinabandhu Sen ...	290 5 10½	.....	45 6 4½
1487	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Darpa Narayan Roy, and Mritunjaya Mukherjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½kt. Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½	.....	24 13 1
1548	Taluq Mohammad Hamza, pergunnah Bozergomedpur.	1,159 3 8	.....	8a. Ijmali share ...	Grish Chandra Mukhapadhyaya and others.	379 9 10	.....	28 4 11
1578	Panioty Alexander taluq, pergunnah Bozergomedpur.	4,883 12 0½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	604 3 2½	.....	113 2 11½
2185	Radha Krishna, Haranand Roy, and Kalidas Siddhanta taluq, pergunnah Bozergomedpur.	24,036 10 10	.....	5a. 14½g. 1½k. Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	.....	43 15 1½
1628	Ramna Bamna Jear Mohammud Safi taluq, pergunnah Bozergomedpur.	19,487 10 8	.....	8a. 15½g. 19-15-0½-1. Ijmali share.	Golam Asad Choudhuri and others.	10,676 12 1	.....	2,119 11½ 7
1631	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ..	Jagadiswari Debya ...	257 12 2½	.....	51 13 5½
1613	Ditto ditto ...	2,062 2 11½	.....	3a. under separate account.	Taramani Debya ...	386 10 7	.....	78 6 2
1751	Radha Kanta Sen taluq, pergunnah Chandradwip.	900 10 8	.....	18a. Ijmali share ...	Kali Mohan Mohinta and others.	453 5 4	.....	2 13 9½
1764	Pergunnah Dakhin Shahabazpur, 3a. 1½g. 1kt. share.	8,543 6 8	Whole estate.	.....	Mr. Alexander Toms, executor of estate J. P. Wise and others.	.....	5,332 10 8½	.....
1916	Haveli Solimabad tappeh, hissa 10g.	1,045 7 9½	.....	5a. 10g. Ijmali share	Bama Sundari Gupta and others.	359 5 5½	.....	72 1 11½
1916	Ditto ditto	1,045 7 9½	.....	6a. 15g. share under separate account.	Kailash Chandra Sen Mujumdar and others.	441 1 8½	...	59 13 0½
3255	Pergunnah Ratandi Kalikapur, hissa 2a	3,154 11 5	.....	7a. 6½g. 2kts. Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,445 14 5	....	403 9 7
3257	Pergunnah Ratandi Kalikapur, hissa 4a.	6,309 6 10	.....	10g. Ijmali share ...	Jagadiswari Debya ...	197 2 6	.. .	67 5 5
3258	Ditto ditto .	6,309 6 10	... .	6½g. 2kts. Ijmali share	Ditto ..	131 7 4	...	43 15 11
4546	Padma *alias* Ramjanpur, pergunnah Kashimpur Silapatti.	5,383 0 0	Whole estate.	.....	Abinash Chandra Ghosa and others.		491 8 0	
4550	Kukua Khag Dom, Domingo Manual, DeSilva, Braja Mohan Sen, Durga Mohan Das, Musammat Krishna Mohini Osat taluq, pergunnah Bozergomedpur.	9,796 0 0	Ditto ..	.. ...	Jagadeswari Debya and others.	.....	For 1888-89 8,239 4 4, 1889, kist September 153 0 0, 1890, kist January 1,254 0 0	.....
4787	Madanpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ..	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others	.... .	9,646 4 4 371 10 6	... .
4897	Tiakhali, pergunnah Chandradwip.	533 14 3	.....	10a. 5g. Ijmali share	Nistarini and others	343 0 4	.....	32 0 6
4897	Ditto ditto ...	533 14 3	... ..	1a. 15g share under separate account.	Tarini Charan Somoddar.	58 6 4	.....	5 7 6
5008	Chak Barguna, Haola No. 16.	668 0 0	Haoladari right of the whole Haola.	.. .	Ramjan Haoladar and others.	..	167 0 0	..
5193	Ramdeb Datta taluq, mouzah Barahipur, pergunnah Gopalpur Mrijanagar.	699 0 0	Whole estate.	.. ...	Jearuddin Haoladar and others.	.....	0 10 0	.. ..
5211	Kumaria Chur, hissa 13a. 18½g. 1kt., pergunnah Uttar Shahabazpur	1,169 0 0	.....	8a. 8g. 2kt. 11½til. Ijmali share.	Durga Prosonna Roy and others.	259 5 0	.....	178 0 4
5238	Chhota Lumchi Dhali Chur.	1,333 0 0	.....	3a. 8½g. 1kt. 2adkur. Ijmali share.	Mr. A. Toms, executor of estate of J. P. Wise and others.	263 11 7	.....	107 7 0
6449	Tappeh Sultanabad, hissa 7½g., Ammannessa Khatun and others	542 1 4	Whole estate.	.....	Moulvie Abdul Wazed and others.	...	5 10 4	. ..

Backergunge Collectorate, the 15th February 1890.

POORNO CHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Furreedpore will be put up for sale at the Collector's Office of that district on the 25th March 1890, corresponding to 13th Choitra 1296 (B. S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
240	Panchashazari, pergunnah Chandpratap.	744 0 0	Whole ..	.....	Iswar Chandra Saha and others.	.....	186 0 0	.....
284	Panchashazari, pergunnah Sahajapur.	1,521 0 0	Do. ...	.....	Jadub Chandra Bagchi and others.	.....	309 11 0	..
3555	Taluq Ratneswar Pal Choudhury, pergunnah Na arat Shahi.	2,550 13 8	.....	Hissa 4 annas ...	Uma Prosonno Pal Choudhury and others.	630 15 0	.....	61 11 8
3870	Taluq Ram Prosad Rai, pergunnah Kharagpur.	524 12 9½	Whole ...	.....	Abhoy Coomer Rai and others.	.....	27 15 5½	.....
4004	Taluq Kali Sanker Sen, pergunnah Rajnagore.	1,140 4 3½	Do. .	.....	Kumadini Kant Baruiya Choudhuri and others.	.....	128 5 11	.....
4028	Zemindari Basudev Rai, pergunnah Rajnagore.	4,119 4 9½	.....	Hissa 10 annas excepting the specific share bearing a revenue of Rs. 63-1.	Soshi Mohan Pal Choudhuri and others.	2,574 9 9½	.....	816 5 10
4028	Ditto ditto ...	4,119 4 9½	.....	Hissa 6 annas, ditto.	Gopi Mohan Rai Choudhuri and others.	1,481 10 0	.....	185 13 5
6220	Hissa Nilmoni Sen, pergunnah Rajnagore.	597 12 3	Whole ...	.....	Raj Coomer Pal and others.	.....	83 8 7½	.....
6220	Ditto ditto ..	597 12 3	.....	Hissa 7½ annas ..	Raj Coomer Pal and Mohima Chandra Pal.	280 3 1½	.....	74 0 2½
6220	Ditto ditto ...	597 12 3	Whole ..	.....	Haro Lal Pal and others.	.....	5 7 4½	.....
6220	Ditto ditto .	597 12 3	.....	Hissa ½ anna ...	Haro Lal Pal ..	18 11 0		4 14 11½
6305	Gazlai char, appertaining to char Madan Sankar.	670 12 0	Whole ...	.....	Kripa Moyee Debya, Poorna Chandra Bandopadhya and others.	.....	11 7 3	.. ..

Furreedpore Collectorate, the 15th February 1890. PURNO CHANDRA RAI, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fasli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
261	Ibraheempoor, pergunnah Brail.	555 0 9	.....	12a. 5g. 1kr, 1k. ...	Ramakhi Lall and others.	410 2 9	.....	51 4 0
907	Akhta, pergunnah Babra Chumparun.	1,173 5 9		3a. 12g. 2c. 2k. 13r. ..	Babu Salookat Deo Narayan.	266 8 1	.....	141 8 0½
921	Fazidpoor Dowlat, pergunnah ditto.	4,450 12 3	.....	8a. 1g. 1k. 1d.	Rajcoomar Babu, Deo Nunden Singh and others.	2,240 13 2	.....	113 8 6½
296	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a, 1c. 1d. .. .	Babu Shimbhoo Pershad, Chundika Pershad and others.	1,042 14 5	.....	449 8 11½
1009	Muksoodp or Karriah, pergunnah ditto.	1,007 11 9	.....	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others.	483 13 1	... ..	25 1 9½
3494	Bidupoor, pergunnah Hajipoor.	1,707 3 3	The whole estate.	.... ..	Ramkishun Pandey ...	1,707 3 3	156 13 0	.....
3528	Joorawunpoor, pergunnah ditto.	719 10 7	.....	16g. 2c. 2k. 5r.	Harbuns Singh ..	37 7 8	.....	6 0 8
3528	Ditto	719 10 7	... .	8g. 3c. 5r.	Deo Narayan Singh ..	19 11 0	.....	3 7 5
3 28	Ditto	719 10 7	.....	19g. 3c. 2k. 2d. 15r. ...	Patul Kuer	45 0 0	.....	4 11 11
3528	Ditto	717 10 7	.....	2a. 1g. 1k. 5r.	Upnet Narayan ...	121 10 3	..	17 5 0
3829	Mamapoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,303 5 11	295 1 4	.....
5462	Shariffpoor, pergunnah Nanpoor	500 9 1	.....	5a 6g. 2c. 2k.	Sher Bahadur Singh and others.	357 12 8	.....	20 16 5
9462	Brazee Nowherrar-Bungra, pergunnah Gudah Sand.	865 5 0	..	1a. 6g. 3c. 1k.	Mangul Pershad	72 2 2	.....	9 0 4
9462	Ditto	865 5 0	.....	2a. 13g. 1c. 1k. 1d. ...	Debi Dutt Singh ..	144 5 4	.. ...	8 0 4
9462	Ditto	865 5 0	.....	5a. 6g. 2c 1k. 2d.	Raohh Pal Singh .	288 7 0	... ..	0 1 4
9462	Ditto	865 5 0	.....	6a. 13g. 1c. 1k. .. .	Brahum Deo Narayan Singh.	360 6 6	.....	30 0 6
9894	Raja Pukurchakia, Gurjowl, pergunnah Bisrah.	958 2 8	The whole estate.	.....	Nawnidh Lall and others.	908 2 8	62 0 0	.....

Mozufferpore Collectorate, the 15th February 1890. E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Hooghly will be put up to public and unreserved sale at the Collector's office of that district on the 24th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2	Mukoondopore, pergunnah Chowmahs.	14,530 2 9	The whole estate.	.....	Rajindra Narain Nundy and others.	...	450 9 11	...
10	Radhakantobati, pergunnah Pandooa.	624 11 11	...	The entire estate except the share of which separate account has been opened.	Sreehurry Nundy and others.	596 13 11	...	59 6 0
11	Chhalalpore, pergunnah Pandooa.	707 6 2	...	Ditto ditto	Aisa Khaton *alias* Abadonnessa Bibee and others.	235 13 2	...	25 11 7
26	Malikapore, pergunnah Baligari.	10,595 3 8	...	Ditto ditto	Nil Komul Mitter and others.	4,507 14 6	...	1,682 7 4
40	Hatisala, pergunnah Chowmahs.	11,509 5 0	...	Ditto ditto	Raja Peary Mohun Mookerjee and others.	7,712 14 0	...	1,009 10 0
84	Thaipara pergunnah Pandooa.	1,066 1 0	...	7*a.* 19*g.* 1*k.* 8*ll.* 6½ *kag.* share of seventeen mouzahs, "Thaipara and others" of which separate account has been opened and marked A.	Woomadotonnessa Bibee.	476 0 0	...	8 0 0
86	Champahati, pergunnah Pandooa.	606 7 2	...	The entire estate except the share of which separate account has been opened.	Bidhomoni Dassee and others.	593 8 6½	...	170 0 0
65	Nundingram, pergunnah Pandooa.	1,975 9 0	...	8 Annas share of the estate of which separate account has been opened and marked A.	Kesub Chandra Chatterjee.	987 13 0	...	30 0 0
117	Rajhat, pergunnah Khosalpore.	726 0 3	.	The entire estate except the share of which separate account has been opened.	Jeebunkristo Gossain and others.	265 11 8	...	35 11 8
159	Chatra Baday, pergunnah Boro.	740 9 5	...	Ditto ditto	Bhola Nath Mitter and others.	43 15 1	...	0 1 10
159	Ditto ditto	740 9 5	...	2*a.* 13*g.* share of the estate of which separate account has been opened and marked A.	Chandra Karto Mookerjee and others.	145 9 4	...	4 10 0
191	Haripore, pergunnah Chowmahs.	851 3 2	...	The entire estate except the share of which separate account has been opened.	Suthdoyal Banerjee and others.	728 2 2	...	87 4 10
2074	Jeerut Chur, pergunnah Hatkanda.	532 5 6	The whole estate.	.....	Joy Kristo Mookerjee	...	266 0 0	...
2521	Digra, pergunnah Boro.	530 3 5	The whole estate.	.....	Ramdoyal Banerjee ...	...	198 0 0	..
2541	Khar Sarai, pergunnah Boro.	1,311 10 0	..	The entire estate except the share of which separate account has been opened.	Ramdoyal Banerjee ..	655 13 6	...	162 8 0
3994	Ramkristopore, pergunnah Boro.	563 14 9	...	8 Annas share of the estate of which separate account has been opened and marked A.	Ranee Surnomoyee Dassee.	281 15 0	...	103 0 0
4065	Sheikpore, pergunnah Bairu.	10,443 11 0	.	The entire estate except the share of which separate account has been opened.	Girish Chundra Roy and others.	1,740 3 0	..	649 7 3

Hooghly Collectorate, the 14th February 1890. MAHOMED ISRAIL, for Collector of Hooghly.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Satkanea Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad.

Serial No.	Nos. of tenures on Register No. I.	Names of tenures and their situations.	ANNUAL RENTAL		THE AMOUNT OF ARREARS FOR WHICH THE TENURES TO BE SOLD.			REMARKS.
			Rent.	Cesses.	Rent.	Cesses.	Total.	
		Thanna Satkanea, mouzah Napora.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	6 1823	Taluk Raj Kumar Roy and Brojeshwari, baboit taluk Bisheshwari Naba Kumar, No 541—408.	1,017 2 0	44 8 6	310 0 0	13 7 9	323 7 0	The entire taluks will be sold.
2	20 429	*Thanna Satkanea, mouzah Chambal.* Taluk Tajannissa Chowdhuranee ...	1,193 6 10	178 13 6	745 4 10	110 6 6	855 11 4	

C. P CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
483	Paverpore, pergunnah Futtehjungpore.	Rs A. P. 8,414 9 6	.....	5a. 10g. 2k. 17½d share bearing No. 426-0.	Kala Chand Biswas and others	Rs A P. 1,175 6 11	Rs. A. P.	Rs A. P. 1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole est te.	.. ...	Messrs. Robert Watson and Co. and others	.....	7,581 6 0	.....
815	Ditto ditto ..	1,160 5 0	Ditto ..	.. ...	Sreekrishna Bhowmik and others.	.. ..	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, and under Act VII (B.C.) of 1868, that the undermentioned estates or shares of estates in the district of Mymensingh will be put up for sale at the Collector's Office of that district on the 25th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold the arrears due from it.	If only a share is to be sold, the arrears due from it
9	Zemindari pergunnah Attiah, hissa 2½ annas.	Rs. A P. 6,729 2 0	...	Ejmali share exclusive of the separate accounts opened under sections 10 and 11 of Act 11 of 1859	Nazamon Nessa Khanum Chowdhurain and others.	Rs. A. P. 2,418 6 0	Rs A. P.	Rs A P 30 6 6
70	Zemindari pergunnah Jusnahaye.	10,535 14 0	.. ...	Separate share 2 annas 5 gds. 2 or. 6 dips.	L. M. Pogose, L. G. Mary Pogose and others.	1,503 12 0	... ..	372 15 5
96	Zemindari hissa 4½ annas with bejabeta taluq, pergunnah Nasirujial.	7,197 10 0	... ..	Separate share 11 gds. 2or 2 kg 10 til. of Kismut Singdha	Sheik Husain and others.	1 10 0	... .	1 4 0
96	Ditto ditto ...	7,197 10 0	... ..	1das. of taluq Dip Chandra Rai.	Mohim Chandra Roy Chowdhuri	204 5 0	...	70 0 0
96	Ditto ditto ...	7,197 10 0	.....	12½gds. share of the estate.	Mahamed Mafidar Rohoman	230 12 0		79 13 0
121	Thane war Badia, pergunnah Nasirujial.	789 10 0	... ..	14ans 10gds. 2cr, 2kg ejmali share.	Apsullah Bhuya and others.	771 2 0	...	275 4 0
124	Payandabeg, hissa 13 as. 6 gds. 2 cr. 2 kranta tuppeh Hasradi.	1,796 2 0	.....	7½as. share of Kismat Patua Bhanga, 6½as share of Nagor Hazradi, 2as of Hir Mesna, 8 gds of chakley Maha atpur and 16as. of other mouzas	Upendra Kishore Roy Chowdury and others	358 15 0	... .	24 9 0
137	Zemindari pergunnah Susung.	1,988 4 0	.....	18gds. 1cr. 2kranta and 16til share of the estate.	Joy Nath Roy	96 1 0	.....	33 5 0
	Ditto ditto ...	1,988 4 0	.... .	8gds 1cr. 2kranta 1 til share of the estate.	Biswesvari Debia and others.	52 5 0	... ..	29 1 0
144	Zemindari pergunnah Sherepur, hissa 1a. 5g.	2,643 8 0	.....	Joint share exclusive of separate account opened under Act XI of 1859.	Dharani Kanta Chowdhuri and others.	1,614 1 0	... .	3 14 6
144	Ditto ditto ...	2,643 8 0	.....	2a. 14g 8cr. 3 dips separate share of the estate.	Har Kumar Chowdhuri	453 3 0		143 9 0
5990	Char Ghugra Kandi, pergunnah Sherepur	765 15 0	Whole ..	.. ..	Radha Ballav Chowdhuri and others	.. ...	2 0 0	...
6179	Juar Jagat Char, pergunnah Bardakhat, tuppeh Kurikhayi.	754 8 0	.....	1 anna separate share of the estate.	Ram Keshab Shaha and others.	47 3 0	..	23 5 0
7503	Taluq Nurunessa Khanum with ejmali mouzah Taratia Digar, tuppeh Ranbhawal.	1,208 0 0	Whole ..		Administrator General of Bengal and others	. ...	140 9 8	.....
				Second class.				
5013	Chak Shakchura, Tuppeh Ranbhawal.	511 0 0	.....	15ans. 17g. share of the estate.	Goloke Chandra Bhattacharyya.	506 4 0	.. ...	136 6 0
5198	Char Jungidi and others, pergunnah Sherepur.	1,220 0 0	Whole ...	.....	Kishori Mohan Chowdhuri and others.	.....	104 12 9	

Mymensingh Collectorate, the 14th February 1890. JUGOBONDHU KHAN, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
		Rs. A. P.				Rs. A. P. K.	Rs. A. P.	Rs. A. P. K.	
26	Kismat 1*a.* 6*g* 2*c* 1*k* 4*dt.*, pergunnah Bardakhat.	13,319 4 9	...	8*a.* 1½*kara* share.	Srimati Barni Khanam and and others.	2,508 0 8 2½	.....	1,157 1 7 5 due up to Agrahayan 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859.
26	Ditto ..	13,319 4 9	....	14*g* 1*kara* 2 [illegible] *kt.* share	Nabin Chandra Das Roy and others.	599 9 2 14½	..	64 9 5 2 ditto.	Remaining portion that has not been separated.
30	Kismat 3*a.*, pergunnah Choudhagano.	1,360 0 6	....	4*a* share	Ambika Charan Lashker and others.	340 0 0 17½	.....	46 2 0 12½ ditto.	Ditto ditto.
230	Taluk Ramdhan Majumder, pergunnah Mohamutpur.	1,189 13 10	.....	10*a.* 13*g* 1*kara* 1*kt.* share.	Alam Rajah *alias* Idhangazi Chowdry and others.	703 3 11 0	..	92 9 11 0 ditto.	Ditto ditto.
265	Taluk Shahzadi Khanam, pergunnah Narayanpur	746 10 8	.....	3*a.* 11*g.* 1*kara* 2*dt.* share.	Srimati Shafaranessa Bibi and others.	165 14 9 9½	...	0 5 0 0 ditto.	Ditto ditto.
372	Mouzah Ahamudpur, pergunnah Bardakhat	1,228 6 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ishan Chandra Roy.	409 7 4 0	.	130 5 4 0 for kist November 1889	Ditto ditto.
401	Jowar Bistarah, pergunnah Bardakhat.	5,141 3 0	.....	5*a* 6*g.* 2*kara* 2*kt.*	Ditto	1,047 1 0 0	.. ...	856 5 8 0 ditto.	Ditto ditto.
435	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,560 0 0	Whole	....	Golam Moula		110 0 0 for kist November 1889.	.....	... .
1925	Chur Nagarerkandi, No 211, pergunnah Utter Shahapur, resumed under Regulation 2 of 1819	1,290 10 9	Do. ...	..	Dr. George Manock and others.		296 8 11 ditto.	.. ...	Property of individuals settled for 11 years from 1294 to 1304 B.S
1938	Mouzah Gangercosi, pergunnah Bardakhat.	895 0 0	Do.	. ..	Braja Nath Roychowdry and others.	...	76 14 5 ditto.	... .	Meadi taluk settled for 17 years from 1288 to 1304 B.S.
1983	Jowar Tinchitta, pergunnah Bardakhat.	663 12 3	Do	.....	Durga Charan Das Majumder and others.	.....	210 5 3 ditto.		Meadi taluk settled for 18 years from 1287 to 1304 B.S.
1933	Mouzah Damrah Chairpara, pergunnah Bardakhat.	1,451 1 8	Do. ...	. .	Kali Das Bhadra and others.	. ..	277 12 0 ditto.	..	Meadi taluk settled for 14 years from 1291 to 1304 B.S.
1939	Jowar Rasullabad, pergunnah Bardakhat.	3,969 14 11	Do.	.....	Kamalakanta Padder and others.	.....	1,364 10 6 ditto.	... ..	Meadi taluk settled for 13 years from 1292 to 1304 B.S.
1933	Jowar Daulatpur, tappeh Kurikhai, pergunnah Bardakhat.	1,436 12 0	Do. ..	.....	Former owner—Ram Gopal Chakraborty and others. Auction purchaser—Mohesh Chandra Chakravarti Sale not yet confirmed.	...	493 14 0 ditto.	....	Meadi taluk settled for 80 years from 1251 to 1410 B.S.

Tipperah Collectorate, the 15th February 1890. R T. GREER, Offg. Collector

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates in the district of Moorshedabad will be put up for sale at the Collector's office of that district on 21st March 1890, corresponding with 9th Choitro, Friday, 1296 (B.S.), for arrears of revenue due up to 13th January 1890.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah	Sudder jumma of the whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.	
9	Kismut pergunnah Kasipore, pergunnah Kasipore.	6,074 3 0	.. ..	1*a* 8*g.* 9*kgs.* ...	Srinath Roy Chowdhury, &c.	720 7 0	...	53 0 6	Of the entire estate, 1*a.* 8*g* 9*kgs.* share belonging to Srinath Roy Chowdhury, &c., the sudder jumma of which is Rs 720-7, will be sold
262	Kismut Huda Barnagar, pergunnah Murariporo.	4,062 13 1 Police 72 2 4		8*a.* 19*g.* 2*karas*	Moharanee Brojo Sundari Debya	2,277 10 11 Police 40 8 0	...	963 3 10 Police 10 14 0	Of the entire estate, joint property (ijmali) of 8*a.* 19*g.* 2*karas* belonging to Brojo Sundari Debya, the sudder jumma of which is Rs 2,318-2-11 will be sold.
		4,134 15 5				2,318 2 11		974 6 10	
467	Kismut mouzah Syud Kulutia, pergunnah Fatehsingh	570 11 1	Entire mehal	...	Syud Fazlel Karim &c.	.....	15 14 5	...	
557	Kismut Gunj Jangipore, pergunnah Gonkur	714 8 11	Ditto .	.....	Bepin Behari Nath	..	170 14 10	... ..	
1486	North of kismut Jangipore, chai Enayenagar, Rahishata and Khiderpore.	338 2 0	Ditto	...	Proprietress and settlement-maker, Rukshmini Barmanya.	...	Current 390 0 0 Arrear 1,436 9 6 1,832 9 6	.....	The proprietary and settlement right of the estate from 1st April 1887 up to 31st March 1894 will be sold.

Moorshedabad Collectorate, dated Berhampore, the 13th February 1890. J. G. RITCHIE, Offg Collector

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Midnapur will be put up to public and unreserved sale at the Collector's Office of that district on 25th March 1890, Tuesday, corresponding with Bengali 1296, 13th Chaitro, and Amli 1297, 14th Chaitro, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
41	Pergunnah Khandar, mehal Amra *alias* Bonai (thana Sabung and Midnapur).	Rs. A. P. 1,265 13 2	Entire...	.....	Gopinath Masanto, Nando Lall Masanto and others.	Rs. A. P.	Rs. A. P. 21 15 8	Rs. A. P. . ..
45	Pergunnah Khandar, mehal Amonpur (thana Midnapur and Narangur).	1,356 2 10	.....	9*a.* 12*g.* share of the joint property.	Baboo Kedarnath Bandopadhya, head assistant, on behalf of the minor of Turka estate, Radha Gobindo Pal, and the Collector of Midnapur on behalf of Haripado Masanto under the Court of Wards.	813 11 4	.....	46 13 10 (Minor has share in the estate.)
73	Pergunnah Kelle: Molnachor, mehal Amonlopur (thana Sabung).	5,657 4 9	.....	Separate account— *A. g. k.* Anondopur... 6 5 0 Duborajpur 6 5 0 Madhubchuk 6 5 0 Kolagachea .. 3 2 2 Masanchuk 3 2 2 Shamsundurpur ... 3 2 2	Srimotya Dasi, Moni Dasi, mother and guardian of Sripoti Charan De, minor.	1,795 3 8	.....	816 9 8
80	Pergunnah Moyna, mehal Ankhuachuk Dakhin *alias* Dakhin Ankhua (thana Sabung).	873 13 6	Entire	.....	Khem Chandra Bandopadhya, self and Srimotya Nistarini Debya, mother and guardian of Panchanan and Lalit Mohon Bandopadhya, minors	.....	301 15 6	....
124	Pergunnah Kelle: Midnapur, mehal Badar, thana Keapur.	906 0 1	Do. ...	.....	Brojo Das Datta	.....	310 8 9	.....
143	Pergunnah Sabung, mehal Bahbulpur (thana Sabung, Panskura).	2,698 3 1	.....	Separate account, 3*a.* 2*g.* 2*k.* share of the mehal.	Srimotya Dasi Moni Dasi, mother and guardian of Sripati Charan De, minor.	826 15 11	.....	161 9 11
204	Pergunnah Khandar, mehal Barikbar *alias* Sargones (thana Sabung, Midnapur and Narangur).	3,496 0 3	.....	Joint property— *A. g. k.* Damudarbar Kelle: ... 4 0 0 Barikbar ... 4 0 0 Basudpur ... 4 0 0 Chowdhurychuk .. 4 0 0 Holodhorchuk 4 0 0 Mohonnondichuk ... 4 0 0 Baboo Dolunchuk 4 0 0 Ram Chandra chuk . 4 0 0 Anondodoluchuk .. 4 0 0 Jhunchuk 4 0 0 Abhiram Bar 4 0 0 Ochubar 4 0 0 Damudarchuk 4 0 0 Arjunchuk . 4 0 0 Kotai ... 4 0 0 Bishtuchuk 4 0 0 Josogarea 4 0 0 Srimontopur 4 0 0 Mawa: Kelle: 4 0 0 Daca ... 4 0 0 Ewazchuk 4 0 0 Madnichukbar 4 0 0 Raghudoluchuk ... 4 0 0 Khordabad chuk 4 0 0 Chuk Basdeb 4 0 0 Jesarea .. 4 0 0 Krorda ... 4 0 0 Biswanath chuk ... 4 0 0 Dordra 2 6 1 Dordra chuk Kelle: .. 2 6 1 Lal chuk ... 2 6 1 Salukea ... 2 6 1 Gopal Sing chuk ... 2 6 1	Srimotya Prossono Movi, Dinbandhu Pardi and others.	780 15 6	.....	94 12 9
231	Pergunnah Batitaki, mehal Bural (thana town, Sabung, Narangur).	1,213 7 5	.....	8*a.* of the joint mehal 8*a.* of the separate account mehal.	Jibun Kristo Ghose ... Administrator-General, Calcutta of the estate of Srikristo Ghose.	606 11 8 606 11 9	....	199 7 7 199 5 1
271	Pergunnah Kelle: Moyna, mehal Boriaa *alias* Borjaa Ramchuk, (thana Sabung).	2,077 9 5	Entire	.....	Rambari Mondul and Sodanand Mondul and others.	.....	534 13 5	.....
323	Pergunnah Ekrachor, mehal Bhatda, thana Egra.	3,614 13 4	.....	Joint property— Mouza Tetulea 1, Ke: Sarorang, 2*a.* 7*g.* 3*k.* 18*k.*; Bhatda, 8*a.* 9*g.* 2*k.*; Mirzapur 1; Karokpara 1; Noripur 8*a*; Jhurea 1 mouza; Gopinathpur 1 mouza; Sundurpur 1 mouza. Ke: Kamardeyan 3*a.* 12*g.*; Norchoripur 1 mouza.	Nundo Kumar, Satrughon Acharjya and others.	1,270 15 7	.....	6 11 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
364	Pergunnah Kelle: Moynachor, mehal Chousra Chuk, thana Sabung.	Rs. A. P. 546 15 6	Entire...	.....	Dinabundhu Jana, Kartik Prosad Jana and others.	Rs. A. P.	Rs. A. P. 0 2 4	Rs. A. P. .....
386	Pergunnah Kasijora, mehal Dahnapukur, thana Panskura.	618 13 3 with police.	Do. ...	.....	Nemaichand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	.....	120 0 3 with police.	.. .
387	Pergunnah Shahapur, mehal Dingel, thana Debra.	2,906 3 1	.....	8a. share of the joint mehal.	Jibun Kristo Ghose ...	1,453 1 7	.....	484 3 1
				No. 1. 8a. of the separate account.	Administrator-General, Calcutta, estate Srikristo Ghose.	1,453 1 6	.....	484 3 3
391	Pergunnah Kedar Kund, mehal Duyan (thana Debra).	1,135 8 3	Entire...	.....	Sridhorcharan Nundi ...	.....	390 3 3	... ..
394	Pergunnah Kelle, Kasijora, mehal Gopalnagur, (thana Panskura).	1,511 0 9	.....	10a. 13g. 1k 1kr. of the joint mehal.	Doyal Chondra Jana, Bisambur Jana and others.	1,007 5 10	.....	86 14 6
363	Pergunnah Gagnapur, mehal Ghosepur, thana Panskura.	1,208 1 3	....	8a, share of the entire joint estate.	Joint share Jibun Kristo Ghose.	604 0 10	.....	197 1 10
				No. 1, separate account 8a. share.	Administrator-General, Calcutta, estate Srikrishna Ghose.	604 0 10	.....	197 1 10
600	Pergunnah Sabung, mehal Horihurpur, thana Sabung.	2,427 11 0	.....	9a. 15g. share of the entire joint mehal.	Nemaichand Dey ...	1,479 5 11	.....	507 14 1
				No. 1, separate account, 6a 5g. share of the entire mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	948 5 1	.....	325 4 1
627	Pergunnah Chetna, mehal Horirampur, thana Daspur.	25,020 3 9 with police.	.....	8a. share of the mehal.	Joint share Nobolal Khan, Koraipodo Khan and others.	12,060 1 11 with police.	.....	4,805 7 1 with police.
639	Pergunnah Moynachor, mehal Ankhuparbo (thana Tamluk).	1,001 7 2	.....	8a, share of the joint mehal.	Dina Nath Bhuttacharjya	500 11 7	.....	173 1 4
643	Pergunnah Amarsi, mehal Jadubar *alias* Nayabasan, thana Pataspur.	907 13 3	.....	9a. 11g 3k. 2kag. share of the entire joint mehal.	Premchand, Ishan Chandra Sera and others.	543 4 3	.....	18 6 9
651	Pergunnah Kelle: Kasijora, mehal Janabar, thana Panskura.	1,252 9	Entire ..	.....	Kamda Charan Pal, Aiman Nessa Bibi and others.	.....	1 1 3	.....
683	Pergunnah Taruf Jamna, mehal Jamna, thana Sabung.	1,696 14 2	.....	6a. 1g. 3k. 2 kag share of the entire mehal.	Joint share Nemai Charan Dey.	607 14 4	.....	211 2 4
740	Pergunnah Sabung, mehal Khelnachota, thana Sabung.	715 5 10	Entire ..	.....	Nemai Chand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	149 7 10	.....
804	Pergunnah Kasijora, mehal Kolagechya (thana Panskura Tamluk).	1,149 8 7	.....	Joint property 12a. share of mouza Kellagechya.	Chandhori Nando ..	780 2 10	.....	266 14 10
810	Pergunnah Kelle: Kasijora, mehal Kesapat, thana Panskura.	800 6 2	Entire...	.....	Brojo Das Dutta	.....	275 3 3	.....
841	Pergunnah Moynachor, mehal Kripamandopur, thana Sabung.	678 8 7	Do. ...	.....	Natabur Das Adhikary, Godadhur Das Adhikary and others.	.....	230 15 11	.....
889	Pergunnah Moynachor, mehal Kheral, thana Sabung.	5,951 4 3	... ..	14a. 8g. 3k. share of the joint mehal.	Dinabundha Nandi, Nemai Chand De and others.	5,370 1 5	.....	1,076 11 11
				No. 1, separate account, 1a. 11g. 1k. share of the entire mehal.	Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	581 2 10	.....	199 4 10
1034	Pergunnah Kasijora, mehal Nohna Kuwar Chuk, thana Panskura.	1 172 13 0 with police.	Entire...	.....	Nemai Chand Dey and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	402 9 0	.....
1046	Pergunnah Sabung, mehal Nandobar, thana Sabung.	667 9 11	Do. ...	.....	Rajiblochon, Modhusudhon Sabud and others.		1 8 11	.....
1118	Pergunnah Shahapur, mehal Poponhori Choron *alias* Papon (thana Debra).	571 1 6 with police.	Do. ...	.....	Sridhor Charan Nandi ...	.....	195 15 5 with police.	.....
1290	Pergunnah Kelle: Kasijora, mehal Ratalia (thana Panskura).	1,135 12 11 with police.	Do. ...	.....	Ditto ditto ...	.....	389 13 11 with police.	.....
1280	Pergunnah Moynachor, mehal Ramchondropur, thana Sabung.	1,500 13 9	.....	No. 1, separate account, 10a. 13g. 1k. 1kr. share of the mehal.	Brojo Das Dutta ...	867 3 10	.....	296 15 10
1351	Pergunnah Kasijora, mehal Sridhorbosan *alias* Dhulcara, thana Panskura.	1,456 13 6 with police.	.....	Separate account, mouza Sridhorbosan 1, mouza Dhulcara 8a.	Rishi Kesh Bose ...	503 13 6 with police.	.....	250 3 6 with police.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1430	Pergunnah Uttor Behar, mehal Shahrdahat *alias* Shahrda, thana Datoon.	2,171 4 6	.....	8*a.* 19*g.* share of the joint mehal.	Gopinath, Nando Lall Masanto and others.	1,173 13 7	.....	29 11 4
1500	Pergunnah Kazijoira, mehal Uttorsutpur, thana Panskura and Tamluk.	3,505 3 1	.....	No. 8, separate account, 8*a.* share of mouza Uttor sutpur.	Nemai Chand Dey and Dasi Moni Dasi, mother and guardian of Sripoti Charan De, minor.	640 0 0	.....	134 1 0
	Temporarily-settled estate.							
46	Pergunnah Pataspur, mehal Dehat Gokulpur.	23,523 15 3	Entire...	.....	Gopendro Nondon Das Muhapatro.	.....	307 15 8	.....
	Jalpai mehal.							
15	Pergunnah Taruf Biswan, mehal Goraliar, thana Khedgree.	814 0 0	Do. ...	.....	Proprietor Government tenant Durga Prosad Mirdha.	.....	279 13 0	.....

Dated Midnapur, the 21st February 1890. G. W. PLACE, for Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the undermentioned mehals and tenures borne in the towji of the district of Noakholly will be put up to public and unreserved sale at the Collector's office of that district, on Wednesday, the 26th March 1890, corresponding with 14th Choitra 1296 B S, for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1551	No. 14, Gayer makarari meadi (temporary) howla Abdul Rahaman in chur Shulukya, *alias* Sunya, chur pergunnah Bhooloosh.	565 15 11	Whole ...	.....	Wazuddin Maghi ...	.....	241 11 6	.....
1608	No. 80, Gayer makarari meadi (temporary) howla Azmatullah, Shubal Chandra Guha in chur Magdhara, pergunnah sundip.	708 14 7	Do. ..	.....	Uma Charan Guha ...	.....	26 0 0	...
1671	No. 1, Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, Gayer makarari meadi (temporary) abadkari howla Anwaruddin, Kali Das, Modan Nath in chur Gazi, pergunnah Jaura.	1,649 5 9	Do. ...	.. ..	Isapali Maghi ..	.....	670 4 6	.....
1671	Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, No. 3, Gayer makarari meadi howla Mohammed Manwar, Mohammed Kalim, Akramaddin, in chur Gazi, pergunnah Jaura.	1,283 9 0	Do. ..	.. ..	Srimati Halimennessa Chowdhurany.	.....	519 10 6	.....
1671	No. 45, Gayer makarari meadi howla Saifaddin, Kalimaddin, Sua Gazi, Kachim No. 270 Dakhal in chur Gazi, pergunnah Jaura.	555 9 7	Do. ..	.....	Azimaddin Patwari, Anursan Bibi, mother and guardian of Aminullah and Mofzil, minors, Chuny, Moti Meah, Kachim Karimunnessa, Munsarali, Samadali, Tazamaddin, Umedali, Manoo Meah, Abdul Meah, Fazarally, Halimennessa, Kadirbaksh, anbaksh Amzad, Asabuddy Monharah.	.....	102 2 1	.....

Noakhally Collectorate, the 16th February 1890. C. R MARRIOTT, Offg Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned mehal, borne in the towji of the district of Noakholly, will be put up to public and unreserved sale at the Collector's Office of that district on Wednesday, the 26th March 1890, corresponding with 14th Chaitra 1296 B S., for arrears of revenue recoverable under the law in force due for kist 28th September 1889:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate is to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
45	Kishmut Mohendra Narayan, pergunnah Shundeep.	637 1 11	Whole...	.. ...	Chandra Mohan Nandy.	.....	109 7 3	... .

Noakholly Collectorate, the 16th February 1890. M. M. CHUCKERBUTTY, Dy. Collr., for Offg Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Sarun will be put up for sale at the Collector's Office of that district on the 17th March 1890, corresponding with 11th Cheyt 1297F. (Monday), for arrears of revenue and other demands due on 28th September 1889, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale;—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
78	Deopur, pergunnah Ander.	Rs. A. P. 3,309 12 10½	.....	*Ijmali.*—16*a.* in mouzah Izara; 4*a.* in Patar; 4*a.* in Pachbemia; 16*a.* in Deopur; 4*a* in Sesri.	Rampria Saru ...	Rs. A. P. 1,048 7 3½	Rs. A. P.	Rs. A. P. 338 0 8½
242	Siawa, pergunnah Ander.	821 5 4½	.....	*Ijmali.*—16*a.* in mouzah Hoosaina; 16*a.* in mouzah Siawa; 16*a.* in mouzah Kandh Paker; 16*a.* in mouzah Bowandih; 16*a.* in mouzah Kasila; 4*a.* in mouzah Meerpur Jitwar; 16*a.* in mouzah Uperwar; 16*a* in mouzah Moglarpur; 16*a.* in mouzah Harnathpur; 4*a.* in mouzah Chandouli Pati.	Sheikh Goolam Hoosein and others.	628 14 10½	.....	26 2 11½
324	Umdha Phakooli, pergunnah Bal.	1,040 0	.....	*Ijmali.*—7*a.* in mouzah Umdha; 7*a.* in mouzah Phakooli.	Ram Govind Sahoo and others.	975 0 0	.....	182 11 5
386	Bolesra, pergunnah Bal.	811 2 10½	.....	*Ijmali.*—14*a.* 8*p.* 5*k.* 4*m.* 2*d.* 19*krag.* in mouzah Bolesra.	Kerat Chand Mohto.	744 11 10½	.....	4 0 9½
657	Khaira Kachnar, pergunnah Bal.	5,048 12 9½	Whole estate.	.....	Gunga Parshad Singh and others.	.....	0 2 8	.....
726	Mirzapur, pergunnah Bal.	1,546 10 8½	.....	*Ijmali.*—16*a.* in mouzah Mirzapur; 16*a* in mouzah Narown Narainpur Mirapur Gopalpur; 16*a.* in mouzah Bunwari Basunt; 16*a.* in mouzah Ramgadh; 16*a.* in mouzah Bakunthpur; 16*a.* in mouzah Gungaju.	Dil Raj Singh and Barmha Singh and others.	1,138 1 8½	.....	0 1 5½
830	Rusulpur, pergunnah Bal.	1,296 0 0	.....	*Ijmali.*—16*a.* in mouzah Belkonda; 8*a.* 6*p.* in Bishunpur; 1*a.* in Parsa; 16*a.* in Chandpura; 8*a.* 6*p.* in Chhitrowlia; 16*a.* in Rampur Nurnaggar; 8*a.* 6*p.* in Rusulpur; 8*a.* 6*p.* in Saria; 8*a.* 6*p.* in Kotnea; 1*a.* 6*p.* in Mirzapur; 8*a.* 6*p.* in Manikpur.	Baboo Chandreswur Persad Narain Singh.	696 9 5½	.....	28 8 10½
1781	Shampur, pergunnah Barai.	1,013 3 3	.....	*Ijmali.*—12*a.* in mouzah Semerdoh; 8*a.* in mouzah Shampur; 16*a.* in mouzah Shampur Talah Doem; 8*a.* in mouzah Balapati; 16*a.* in mouzah Sultanpur; 8*a.* in mouzah Sheikhpur.	Shunker Parshad and others.	547 7 2	.....	34 10 10
2715	Karar Mahamedpur, pergunnah Goa.	724 15 0	Whole estate.	.....	Ram Parshad Sahoo, Gunga Parshad Sahoo and others.	.....	339 9 9	.....
2763	Sagooni *alias* Burghi, pergunnah Goa.	1,536 0 0	.....	*Ijmali.*—13*a.* 9*p.* in mouzah Sagooni; 12*a.* 9*p.* in mouzah Burghi; 12*a.* 9*p.* in mouzah Chandpura; 12*a.* 9*p.* in mouzah Harakhpara; 16*a* in mouzah Lorna; 13*a.* 9*p.* in mouzah Rajmara Mokimpur; 13*a.* 9*p.* in mouzah Soncpatia.	Ram Namaj Kuer and Ram Sarun Singh, &c.	1,304 7 11½	.....	7 2 7
2872	Sondhani, pergunnah Goa.	6,866 1 11	.....	*Ijmali* share	Durga Singh and Jado Lal.	837 5 5	.....	218 10 6 2 *powa.*
2935	Kharika, pergunnah Kasmir.	612 2 4½	Whole estate.	.....	Sugno Ali Khan and Jamno Ali Khan and others.	.....	199 11 4½	.....
3175	Salehpur, pergunnah Kasmir.	1,119 0 0	Ditto.	.....	Ram Parsun Singh, auction purchaser.	.....	201 13 0	.....
3176	Ditto	640 0 0	.....	*Ijmali.*—16*a.* in mouzah Salehpur Dara-Sikah; 16*a.* in mouzah Chander Chanpur; 16*a.* in mouzah Chak Chhiter Madhooker.	Padaruth Tewari, auction purchaser.	604 0 0	.....	113 4 0
3177	Ditto	650 0 0	.....	*Ijmali.*—16*a.* in mouzah Salehpur Dara-Sikah; 16*a.* in mouzah Chander Chanpur; 16*a.* in mouzah Chak Chhiter Madhooker.	Shoo Karun Singh, auction purchaser.	605 0 0	.....	113 6 11½
3472	Doomria, pergunnah Madhul.	533 5 4	Whole estate	... ...	Thakur Parshad Singh and others.	.....	55 13 6	.....
3543	Indai, pergunnah Manjhi.	633 9 7	.....	*Ijmali.*—13*a.* 16*p.* 1*k.* in mouzah Indai.	Ram Anagrah Rai and Ram Baran Rai, and others.	546 15 8	.....	33 12 6
3689	Lachhipur, pergunnah Narhun.	2,026 10 8	Whole estate.	....	Lalco Singh and Fateh Narain Singh and others.	.....	0 0 4½	.....
3933	Jira-Dai, pergunnah Pachlukh.	634 1 3½	Ditto	.....	Mossamut Raghoobunsi Kuer and others.	.....	7 3 1	.....
3938	Bisoonpur Mohna, pergunnah Sipah.	777 15 2½	Ditto.	.....	Baboo Janki Parshad Sahee and Bhairo Parshad Sahee and others.	.....	0 2 2½	.....

Sarun Collectorate, the 22nd February 1890.

RAGHU NATH SHAHI, Dy. Collr., for Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Cuttack will be put up for sale at the Collector's Office of that district on the 7th April 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors.	If a share is to be sold, the sudder jumma of such share or shares.	If the whole estate is to be sold, the arrears due from it.	If a share is to be sold, the arrears due from such share or shares.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Kismut talook Kalimegha, pergunnah Jajpoor.	1,198 7 4	.. ..	Out of the estate kismut, 11*a.* 6*p.* 15*k.* 2*b.* 10*g.* share of Ananta Panda and others.	Ananta Panda, Kamalai Panda and others.	891 2 0	.....	9 0 5
656	Kismut mouzah Nagaspur, pergunnah Suhang.	928 13 7½	.....	Out of the estate kismut, 15*a.* 2*p.* 0*k.* 2*b.* 12*g.* 3*kauri* share of Chandhari Juggernath Santra Mahapater and others.	Kripa Sindhu Chaudhari and others.	882 11 0	.....	1 6 7½
742	Kismut mouzah Barahipur, pergunnah Sughunda.	531 4 10	Whole estate	.. ...	Gobind Chandra Pahara] and others.		16 7 7	.. .
744	Talook Manda, pergunnah Sughunda.	1,615 14 1	Ditto ...	..	Jugernath Santra Mohapater and others.	.....	23 6 2	.....
1328	Talook Upper Barnan, pergunnah Barnan.	500 4 9	Ditto ..	.....	Daya Nidhi Dubai and others.	.....	20 7 10	.....
1981	Kismut mouzah Aitpur, pergunnah Kodinda.	655 10 6	.....	Out of the estate kismut 14 annas share of Radha Madhob Santra and others.	Radha Madhob Santra and others.	573 11 2	.....	81 2 3
2034	Kismut talook Rajhungsa, pergunnah Kodinda.	1,096 3 10	Whole estate	..	Radha Madhob Santra, Hurra Kristo Mohanty and others.	... ..	211 14 3	... ..
2071	Talook Sree Sanderpur, pergunnah Silo.	930 2 0½		Out of the estate kismut 13 annas share of Kasi Nath Dass and Surja Mani Dis and others.	Syed Abdul Kadar and others.	796 5 7½	.....	20 7 4½
2402	Talook Bisnabar, pergunnah Bakhrabad.	2,888 1 11	Whole estate.	. .	Radha Madhob Santra and others.	... .	250 11 8½	... .
2737	Mouzah Kantisal, pergunnah Kata	505 10 2	Ditto	.. ..	Kanhoo Charan Chaudhary and others.	.....	3 5 4	. . ..
3515	Kismut mouzah Narigan, pergunnah Katia.	729 14 7	Ditto	.. .	Janardan Mahapator and others.	..	1 14 11	..
3844	Talook Balabhadra, pergunnah Tikan.	1,106 12 4½	Ditto ..	...	Chaudharanee Madha Dei, grandmother and guardian of Madan Mohan Das, minor.	.....	191 12 8½	.....

Cuttack Collectorate, the 20th February 1890. A. C. SEN, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Burdwan, will be put up for sale at the Collector's Office of that district on 27th March 1890, for arrears of revenue and other demands, due on the 12th January 1890, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
21	Mahata, pergunnah Monoharshahy.	11,686 5 7	.....	The parent estate, the sudder jumma of which is Rs. 10,310-6-4, will be sold. The separate account share of the estate, the sudder jumma of which is Rs. 1,375-15-3, will not be sold.	Chandkumari Debi and others.	10,310 6 4	Rs. A. P.	Rs. A. P. 209 12 7
59	Mohunpur, pergunnah Bagha.	1,653 7 11	The whole estate.		Nabakristo Mukhopadhya, guardian on behalf of minor Upendra Naram Mukhopadhya.	.....	538 5 6	.....
62	Palsona, pergunnah Dhima.	7,400 11 11	..	The parent estate, the sudder jumma of which is Rs. 3,560-10-1, will be sold. The separate account share, the sudder jumma of which is Rs. 3,840-1-10, will not be sold	Harak Chand Golacha and others.	3,560 11 1	.....	23 6 2
5174	Salkuni, pergunnah Burdwan.	1,633 11 5	.....	The parent estate, the sudder jumma of which is Rs. 1,256-5-7, will be sold. The separate account share, the sudder jumma of which is Rs 437-2-10, will not be sold.	Sheik Alim Ullah and others.	1,256 5 7	.	301 0 6

Burdwan Collectorate, the 28th February 1890. H. F. J. T. MAGUIRE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Patna, will be put up for sale at the Collector's Office of that district on 31st March 1890, corresponding with 25th Chyet 1297 F.S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 13th January 1890.

1	2	3	4	5	6	7	8	9
Touji No.	Name of mahal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
2	Alipur Dhongawan, pergunnah Telladha.	Rs. A. P. 1,832 11 9	...	3a. 6d. 15k. .	Mussamut Jharakha Kuer and others, non-applicant.	Rs. A. P 447 11 9	Rs. A.P.	Rs. A. P. 5 13 6
3	Bhelwa Barhri, &c., pergunnah Rajgir.	2,297 11	.....	A. D. Bhelwa ... 5 10 Borhri .. 5 10 Dumri ... 5 10 Chak Rasul 5 10 Chak Sorini 5 10	Shaikh Chowdhri Zohurul Hoq and others, applicant for separation of account.	789 13 0	....	16 7 9
4	Bhooski, pergunnah Bijkatpur.	881 9 2	Whole ...	... .	Bajrang Persad and others.	.....	0 0 11	.....
12	Bakipur Goruk, pergunnah Azimabad.	1,360 8 3	Do. ..	... .	Babu Nonit Lal and others.	.....	138 3 0	.....
17	Indont, pergunnah Shahjehanpur.	1,015 0 0	Do. ..	.....	Syed Amed Hosain and others.	.....	39 10 4	.....
37	Bara Chak Bara, pergunnah Telladha.	800 8 6	.....	10a.	Sookhoo Sah and others, non-applicant.	500 5 3	.	0 0 7
40	Bazidpur Parthco, pergunah Telladha.	533 5 4	.....	9a. 8p.	Mussamut Jhorokha Kuer and others, non-applicant.	323 3 8	.....	9 11 5
47	Hisah Chowsanda, pergunnah Biswak.	906 10 8	.....	5d.	Mussamut Sharifan, applicant for separation of account.	14 2 9	.....	3 8 8
47	Ditto ditto ...	906 10 8	.....	7d. 10k.	Mussamut Shakran, for self and guardian of Mussamut Badlan, applicant for separation of account.	21 4 0	.....	5 5 0
47	Ditto ditto ..	906 10 8	.....	0a. 0d. 16k. 13b 8ph. 1r.	Mulook Zohurul Hoq and others, non-applicant.	342 5 0	.....	22 13 1
50	Dyalpur, pergunnah Pilich.	2,423 4 3	.....	Dyalpur, 10a. 0d. 11k. 15b. 18ph. 1or. Bhagwantpur Utra, 10a. 4d. 3k. 19b. 18ph. 1or. Mohesh pur, 10a. 4d. 11k. 17b. 3ph 16r. 10t. Chak Astha, 10a. 1d. 8k. 9b. 5ph. 10r. Patusang Bandoh, 10a. 8d. 5k. 2b. 3ph. Tharthori Khurd, 10a. 15d. 8k. 13b. 1ph. 10r. Lodipur Tent, 10a. 4d. 11k. 13b. 3ph. 10r. 10t	Mussamut Tara Kuer and others, non-applicant.	1,558 5 10	.....	1 3 8
69	Charni, pergunnah Shahjehanpur.	1,62a 0 0	.....	10a. 10d.	Mussamut Monran and others, non-applicant.	1,065 2 0	.....	0 0 2
69	Poona Chhariahri, pergunnah Pilich.	1,0 8 12 10	Whole	....	Babu Behari Lal and others.	.....	23 5 4	.. ..
70	Gobindpur Birhna, pergunnal Bhimpur.	624 0 0	....	.....	Tafasul Hosain and others	.....	1 0 0	... ..
101	Kapiawan, pergunnah Pilich.	1,813 6 1	. . ..	14a. 8d. 12k. 13b. 15ph.	Syed Monibar Rahman, manager of the estate of Debi Persad, lunatic, applicant for separation of account.	1,035 2 0	.....	180 10 0
101	Kareawan, pergunnah Pilich.	1,813 6 1	.....	1a. 11d. 7k. 8b. 5ph.	Mahabir Persad Singh and others, non-applicant.	178 4 1	.....	9 12 0
126	Ghoselawan, pergunnah Biswak.	659 8 11	.....	10a. 11d. 19k. 11b 18ph. 9t. 2 tilwaari.	Syed Kazim Ali and others, non-applicant.	436 13 8	... .	7 12 3
135	Khejura, pergunnah Shahjehanpur.	1,495 14 6	Whole ...	.....	Mussamut Sharfan and others.	.....	76 9 2	...
136	Panwarah, pergunnah Pilich.	872 12 1	Do. ..	.....	Lachman Persad and others.	.....	217 12 7	. ..
140	Korari Hajipur, pergunnah Shahjehanpur.	1,281 1 1	Do. ...	. ...	Shaikh Khoda Bax and others.	. ...	261 4 3	.....
147	Kasbah Barhowna, pergunnah Pilich.	3,712 0 0	.....	Kasbah Barhowna, 12a. 5d. 2k. 1ob. 1ph. 10r. Karut, 10a. 8d. 18k. 16b. 10ph. 10r. Barara, 12a. 17d. 10k. 9b. 7ph. 10r Ahrawan, 12a. 17d. 10k. 2b. 7ph 10r. Babhanawan, 13a. 5d 2k. 10b. Athabalpur Pathana, 13a. 5d. 2k. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kifait Hosain and others, non-applicant.	4,490 10 10	.	447 4 10
154	Rampur Tini, pergunnah Pilich.	563 7 6	Whole .	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Persad Singh and others.	... ..	0 3 8	.....
157	Shaik Mohomedpur, pergunnah Bhimpur.	592 14 0	... ..	1a.	Wazir Ali, applicant for separation of account.	37 1 0	...	8 15 11
157	Ditto ditto ...	592 14 0	.....	11a.	Mussamut Saliman and others, non-applicant.	407 9 6	.....	93 10 2
188	Makhdumpur Kasba, pergunnah Biswak.	694 6 5	. ....	2a. 6d. 12k. 19b. 10ph.	Shaikh Khurshedah and others, applicant for separation of account.	101 3 8	... ..	20 2 11
188	Ditto ditto	694 6 5	.. ...	1a.	Mussamut Rohiman, applicant for separation of account.	43 6 6	.....	10 13 8

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
188	Makhdumpur Kasba, pergunnah Biswak.	644 6 5	.....	19d. 8k. 2s. 14ph. 5r.	Tika Rout and others, non-applicant.	42 0 7	.....	4 11 7
200	Mustafapur Arawan, pergunnah Shahjehanpur.	1,281 1 1	Whole ...	.....	Mussamut Bibi Sharfan and others.	.....	253 15 5	.....
207	Ghoserawan, pergunnah Behar	1,985 9 0	.....	10a. 4d. 15k. 18s. 11ph. 3r.	Syed Karamat Hosain and others, non-applicant.	1,270 11 5	.....	1 15 9
				Ans.				
225	Akbarpur Bhadwar, pergunnah Masondha.	3,215 10 9	.....	Akbarpur Bhadwar ... 16 Panauhi ... 16 Dorawan ... 4 Shorampur... 16 Sherpur ... 16 Hushanpur Lachman ... 16 Mominpur Nadawana 16 Mosumpur Bandauli ... 16 Chak Shamsuddin ... 16 Kodera ... 16 Katari Bilieri ... ... 16 Runapur ... 16 Paiganpur ... 16 Shibdaspur Kurkuri ... 16 Judopur ... 16 Moazamabad, Bali Pakar ... 16 Dariapur Anant ... 16 Nikaria ... 16 Parsurampur Hir ... 16 Jalalpur Elahi ... 16 Rampur Misrowli ... 16 Kishopur ... 16 Shazadpur Mori ... 16 Atapur Rukun ... 16 Alampur Jarkha ... 16 Radhunathpur Mori ... 16 Saidabad Bikram ... 16 Bela Gobindpur ... 16 Patranga ... 16 Ahmedabad Khanta ... 16 Bali Patowna ... ... 16 Patowna ... 16 Raghunathpur Jagbandan 16 Korkisho ... 16 Kishopur ... 16 Masondhakhas ... 16 Harinagar ... 16 Nasirpur Biga ... 16 Bihta ... 16 Abdullapur Khankuli .. 16 Ganga Chak Mai Nazumpur .. 16 Dadopur ... 16 Mahomed Khanpur Dorab ... 16 Fazilpur Patan ... 16 Ibrahimpur 16 Adampur Ganga ... 16 Parsurampur Kanak 16 Bishunpur Manshahi .. 16 Saroute ... 16 Karanpura .. 16	Rahu Sheonandan Persad and others, non-applicant.	2,604 11 10	.....	14 0 1
301	Mustafabad Asarhi, pergunnah Telaidha.	883 12 0	Whole ...	.....	Shaikh Fasloor Mohoman	.....	110 6 3	.....
337	Muradpur Bind, Fatehpur Bind, pergunnah Behar	802 2 0	Whole ...	.....	Chhurawan Singh and others.	.....	0 5 7	.....
345	Khedaboxpur, pergunnah Azimabad.	3,236 0 7	.....	Gangapur, 1a. 10d. Barla Khurd, 1a. 10d. Bhagwanpur, 1a. 10d. Rukunpur, 1a. 10d. Mohomedpur, 1a. 10d. Dalanpur, 1a. 10d. Pir Mohomedpur Doara, 10a.	Bahan Sahai, applicant for separation of account.	110 1 6	.....	20 8 6
335	Ditto ditto ...	3,236 0 7	.....		Jagoo Lal Upadhia and others, non-applicant.	473 10 7	.....	33 14 11

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P
427	Akbarpur Kurtha pergunnah Telladha.	853 5 4	.....	5*a.* 4*p.*	Raj Bahadur Singh and others, non-applicants.	284 7 1	....	0 3 5
429	Kasbah Sherepur, pergunah Manair.	2,615 10 11	.....	8*a.* 13*d.* 4*k.* 5*b.* ...	Mussamat Hamidannisa and others, non-applicants	1,415 13 3	.....	61 2 3
473	Mustafapur Arai, pergunnah Sanda.	797 13 10	.....	4*a.*	Syed Wajid Hosain and others, applicants for separation of account.	199 7 5	.....	49 14 0
478	Utarnawan Buzurg, pergunnah Behar.	2,323 0 0	. ....	9*a.* 15*d.*	Syed Ahmed Hosain and others, non-applicants.	1,415 0	.....	11 13 9
556	Kishunpur Karowla, pergunnah Gyaspur.	781 0 0	.....	14*a.* 10*c.*	Khajih Syed Hosain and others, non-applicants.	685 6 5	.....	0 9 3
724	Jehangirpur Mongarpal, pergunnah Manair.	2,316 4 4	. ...	1*a.*	Rai Monohar Lal and others, applicants for separation of account.	144 12 3	.....	0 1 3
724	Ditto ditto ..	2,316 4 4	.....e	15*d.*	Seetapat Sahai and others, applicants for separation of account.	108 10 0	.. ...	0 15 5
724	Ditto ditto ..	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 15*b.* ...	Mussamat Sriana Kuer and others, non-applicants.	230 7 1	.....	14 12 10
726	Yakubpur Tungi, *alias* Fateh Ali Chak, pergunnah Behar.	651 0 0	.....	9*a.* 10*p.* 8*c.* 8*m.* ...	Syed Mahomed Ismile and others, non applicants.	401 8 0	.....	86 4 11
			2nd Kind.					
733	Arazi Towfir Rampur Ghoshur, pergunnah Manair.	1,236 5 11	Whole ...	.....	Srikewal Singh	. ....	1,463 6 2	. .
742	Arazi Bakhi Dcara Mohazi Jehangirpur, Mongarpal, pergunnah Manair.	1,561 8 3	.....	5*a.* 11*d.* 13*k.* 6*b.*	Moulvi Abdul Karim and others, applicants for separation of account.	530 8 1	....	90 9 3
742	Ditto ditto ...	1,561 8 3	.....	2*a.* 5*d.*	Kishandyal Lal and others, non-applicants.	219 11 4	. .	5 6 1
778	Sabnawan, pergunnah Gyaspur.	1,403 11 11	.....	.....	Mussamat Sharfan and others.	.....	373 6 10	

PATNA COLLECTORATE, BANKIPORE, the 28th February 1890. C. J. S. FAULDER, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Jessore will be put up for sale at the Collector's Office of that district on the 8th April 1890, corresponding with 27th Chaitra 1296 (B.S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P	Rs. A. P.
6	Anpara, pergunnah Isafpur.	599 6 11	Whole.	.....	Syama Charan Ghosh and others.	.....	67 6 8	.....
103	Madhupur, pergunnah Mahamed Sahi.	539 1 3	.....	Share No. 1 ...	Hari Nath Basu and others	129 10 5	.....	2 13 6
258	Sidhipasa, pergunnah Isafpur.	2,335 4 7	.....	Do. „ 1 ...	Mukta Kesi Chaudhurani.	467 1 0	.....	135 13 0
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 2	Gopeshur Pal Chaudhury.	467 0 11	.....	135 12 9
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 3 ...	Ditto ditto .	467 0 11	. ...	135 14 2
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 4 ...	Chandi Mani Chaudhurani.	934 1 9	.....	271 11 4

Jessore Collector's Office, the 1st March 1890. C. J. O'DONNEL, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates, in the district of Rajshahye, will be put up for sale at the Collector's Office of that district on 27th March 1890, Thursday, corresponding to 15th Chaitra 1296 B.S., for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
307	Kismut pergunnah Dhamin.	Rs. A. P. 4,300 2 0	.....	Excluding the share for which separate account has been opened.	Gokul Chandra Chowdhury, and Sayad Abdul Selam.	Rs. A. P. 1,963 5 0	Rs. A. P.	Rs. A. P. 13 13 0

Rajshahye Collectorate, the 24th February 1890. O. C. CHATTERJEE, Deputy Collector in charge.

NOTICE is hereby given that the undermentioned plots of land no longer required by Government, situated along the western or Bettiah extension of the Tirhoot State Railway in the district of Chumparun, will be put up to sale on Monday, the 21st April, and following days, at Motiharee.

The purchasers of the plots will be subject to the following conditions:—

1*st*.—The purchasers will have no power to make any excavation on the land nearer than fifteen feet from the railway fencing, or plough it closer than three feet from its foundation.

2*nd*.—If the amount of purchase-money does not exceed Rs. 100, the whole amount to be paid down at once.

3*rd*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by the fifteenth day after the sale, reckoning the day of the sale as one, or if the day be a close holiday, then by the noon of the first succeeding office day, the sale to be cancelled, the sum deposited being forfeited to Government, and the land to be again put up for sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

4*th*.—The plots will be sold revenue-free to the highest bidders.

5*th*.—The purchasers shall be put in possession on receipt of the orders of Board approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive lot number.	Name of zillah.	Pergunnah and mouza.	Number of sale on which land is situate.	Situated on which side of the railway.	Approximate area of lot in bighas and in acres.		Land excluded from sale from each lot.		Commencement and termination of lot.	Boundaries of lot.
					B. K. CH.	A. R. P.	Reasons for exclusion.			
51	Chumparun ...	Parsaunu, pergunnah Mehsi.	85	East	..	1 0 33	.	... ..	From the end of lot No. 49	East—Railway A class land. West—Zemindari land. North—Village. South—Lot No. 49, village Bishunpore Kateau.
52	Ditto ...	Chak Bara .	85	West ...	.. ..	0 1 9	.....	. ...	From boundary of village Parsowni to the termination of the lot as per plan.	East—Zemindari land and village boundary. West—Railway A class land. North—Village lands. South—Lands of village Parsowni
53	Ditto ...	Ditto	86	Do. .	... ..	1 3 8	... .	.....	From the termination of lot No. 52 to the boundary of the village.	West—Zemindari land. East—Railway A class land. North—Boundary of village Koorsah. South—Village Chakbara.
54	Ditto ...	Ditto	86	East ...	..	1 6 32	. ..	...	From chainage No. 456½ to the boundary of the village.	West—Railway B class land. East—Zemindari land. North—Boundary of village Koorsah. South—Zemindari land.
55	Ditto ...	Kaomarpore ...	91	West	..	0 3 6	.....	.....	From village boundary to the commencement of lot No. 56.	West—Zemindari land. East—Railway A class land. North—Lot No. 56. South—Village boundary.
56	Ditto	Ditto	92	Do.	.....	1 3 6	... ..	. .	From termination of lot No. 55 to the boundary of village Koorsah.	West—Zemindari land. East—Railway A class land. North—Boundary of village Koorsah. South—Lot No. 55.
57	Ditto ...	Ditto	92	East	. . .	1 2 34	...	.....	From boundary of village Ramgudhwa to the boundary of village Koorsah.	West—Railway A class land. East—Zemindari land. North—Village boundary of Koorsah. South—Boundary of village Ramgudhwa.
58	Ditto ..	Chandsarae .. .	95	Do.	..	0 0 14	.....	.....	From boundary of village Punditpore to the boundary of village Madhochupra.	West—Railway A class land. East—Zemindari land. North—Boundary of village Madhochapra. South— Ditto Chandsariah.
59	Ditto ..	Loknathpore	107	West	.....	1 3 20	.. ...	.....	From boundary of the village to the boundary of village Semra.	West—Zemindari land. East—Railway A class land. North—Boundary of village Semra. South— Ditto of the village.
60	Ditto	Ditto	107	East . .	. ..	1 3 23	.....	. ..	Ditto ditto ...	West—Railway A class land. East—Zemindari land. North—Boundary of village Semra. South— Ditto of the village.
61	Ditto ...	Barubroopa	113	West	. ...	0 2 25	.....	.....	From boundary of the village to the commencement of lot No. 63.	West—Zemindari land. East—Railway A class land. North—Lot No. 63. South—Boundary of the village.

62	Ditto ...	Ditto	115	East	... ...	0 1 39	.....	.....	From boundary of the village to the commencement of lot No. 64.	West—Railway A class land. East—Zemindari land. North—Lot No. 64. South—Boundary of the village.
63	Ditto ...	Ditto	116	West ...	.....	1 0 28	...	...	From lot No. 61 to the commencement of the zemindari land.	West—Zemindari land. East—Railway A class land. North—Zemindari land. South—Lot No. 61.
64	Ditto .	Ditto	116	East ...	....	1 3 35	.....	.....	From lot No. 62 to the village boundary.	West—Railway A class land. East—Zemindari land. North—Boundary of village Bahoearwa. South—Lot No. 62.
65	Ditto ...	Shampore	120	West ...	.....	1 0 21	.....	.....	From the village boundary to the boundary of village Baithoonia.	West—Zemindari land. East—Railway A class land. North—Boundary of village Baithoonia. South—Village boundary.
66	Ditto ...	Ditto	120	East	... ..	1 0 9	.....	... ...	Ditto ditto ...	West—Railway A class land. East—Zemindari land. North—Boundary of village Baithoonia. South—Village boundary.
67	Ditto ...	Majhawlia	122	West	..	0 3 17	.....	... ..	From the village boundary to the commencement of lot No. 68.	West—Zemindari land. East—Railway A class land. North—Lot No. 68. South—Village boundary.
68	Ditto ..	Ditto	123	Do.	...	0 2 12½	.....	... .	From lot No. 67 to the commencement of lot No. 69.	West—Zemindari land. East—Railway A class land. North—Lot No. 69. South—Lot No 67.
69	Ditto ...	Ditto	123	Do.	.	1 1 21½	.....	.....	From lot No. 68 to the commencement of lot No. 70.	West—Zemindari land. East—Railway A class land. North—Lot No. 70. South—Lot No. 66.
70	Ditto .	Shampore	123	Do. ...	.....	0 1 20	...	..	From lot No. 69 to the boundary of village Mahiuddinpore.	West—Zemindari land. East—Railway A class land. North—Boundary of the village Mahiuddinpore. South—Lot No. 69.
71	Ditto ..	Ditto	123	East	.....	0 0 18	.....	.....	From zemindari land in the west to the zemindari land in the east.	West—Railway A class land. East—Zemindari land. North— Ditto. South— Ditto.

Chumparun Collectorate, Motiharee, the 28th February 1890.

A. W. B. POWER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Bhagulpore will be put up for sale at the Collector's Office of that district on Monday, the 31st March 1890, corresponding with the 25th day of Chaitra 1297F.S., for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
59	Rampur Taluqa, pergunnah Bhagulpur, thana Sultangunj.	Rs. A. P. 1,240 10 0	..	The residue ijmali share of which separate account has not been opened.	Nand Lal Pandy and others.	Rs. A. P. 351 13 0	Rs. A. P.	Rs A P. 8 9 0
95	Mandar Tappah, pergunnah Bhagulpur, thana Banka.	1,706 12 0	.....	16*g.* mouzah Pair asli, 16*g* Jhajha, 16*g.* Makasar, 16*g.* Rafatpur.	Tarni Pershad Misser, &c.	5 0 0	.. ..	2 8 0
				The residue ijmali share of which separate account has not been opened.	Khedan Lall, &c. ..	227 12 0	.. .	97 0 0
334	Bishitti, pergunnah Chye, thana Kishengunj.	580 6 0	.....	1*a.* 10*g.* share	Ganga Ram Kumar, &c.	55 5 0	...	6 14 0
335	Bikrampur Chakrami, taluqa Nisf, pergunnah Chye, thana Bihpur.	7,711 15 0	.....	Mouzah Jamaluddinpore 10*g.*, Bishenpur Gopal Pekwajpur 5*g.*, Bishenpur Amri 3*g.* 1*c.* 1*k.*, Syad Nuruddinpur 3*g.* 1*c.* 0*k.* 1*d.*, Bannudat Jalkar, Deara Jalkar, Ganga Charan Jalkar, Parsuram Jalkar, Kali Das Jalkar, 2*g.* 2*c.*	Dilsukh Ram Mandwari.	23 2 0	.....	2 15 0
				The residue ijmali share of which separate account has not been opened.	Apachh Kumar, &c...	610 0 0	.....	1,369 13 0
379	Masum Nawas Kismut, pergunnah Chye, thana Kishengunj.	703 15 0	.....	The residue ijmali share of which separate account has not been opened.	Singheswar Pershad, &c.	382 0 0	.....	131 0 0
384	Nagarparah Kismut, pergunnah Chye, thana Bihpur.	877 15 0	Whole	.....	Rajbati Kumri ...	.....	109 4 0	.....
386	Ditto di to ...	645 11 0	... .	5*a.* 4*p.* share	Rajbuti Kumri ...	215 4 0	... ..	20 2 9
				The residue ijmali share of which separate account has not been opened.	Santokhi Rai, &c. ...	215 3 0	.....	0 4 0
460	Bhagwanpur taluqa, pergunnah Nesankhpur Kurah, thana Supaul.	1,363 1 0	.....	Ditto ditto ...	Radha Singh, &c. ...	271 5 0	.....	169 9 0*
471	Gangapur Rajnigote taluqa, pergunnah Nesankhpur Kurah, thana Madhepurah.	11,254 2 0	.....	3*a.* share	Rakhal Rai	2,109 5 0	.....	791 0 0
				6*p.* share	Fakrimunnissa ...	351 9 0	.....	131 13 0
472	Sarowni Kalan, pergunnah Nesankhpur Kurah, thana Keshengunj.	851 3 0	.....	2*a.* mouza Sarowni Kalan ...	Lakhbuti Kumri ...	77 8 0	... ..	29 1 0
				The residue ijmali share of which separate account has not been opened.	Jagarnath Ram, &c....	542 9 0	.	203 7 0
532	Thalha, pergunnah Naraidigar, thana Supole.	1,034 3 0	.....	4*g.* 2*c.* 2*k* 13½*p.*, mouzah Thalha .	Ghansham Singh Jha	3 5 0	...	1 4 0
				The residue ijmali share of which separate account has not been opened.	Ditto ditto ..	93 4 0	.. ...	35 5 0
558	Faridpur, pergunnah Ohhai, thana Kotwali.	668 11 0	Whole ..	.....	Rajbuti Kumri ...	.....	292 5 0	...
3193	Maheshpur taluqa, Banahrah kismut, pergunnah Bhagulpur, thana Amarpur.	1,534 11 0	.....	The residue ijmali share of which separate account has not been opened.	Gajadhar Pershad urf Gyadin.	767 6 0	....	192 2 0
3851	Kalyanpur, pergunnah Dhaphar, thana Pratapgunj.	913 5 0	.....	Ditto ditto ...	Khub Lal Sahu, &c....	627 14 0	.....	235 6 0
3863	Bhawanipore, pergunnah Dhaphar, thana Partabgunj.	1,309 0 0	.....	Ditto ditto ...	Jamaruddin	144 7 0	.....	57 5 0
4165	Supole taluqa, pergunnah Malhnigopal, thana Supole.	563 13 0	Whole...	.....	Kishori Narain Singh, &c.	.....	0 4 0	.....

* This was sold on 16th September 1889, but appeal against this sale is pending.

Bhagulpur Collectorate, the 27th February 1890.

A. A. WACE, Collector.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Jan. 11	2 Cases, D in a diamond	Order ...	S. S. "Rohilla"
Feb. 14	1 Case, 2013 in a diamond, O S top	Ditto ...	S. S. "Peshawar."
,, 14	1 Parcel, Revd. J. W. Thomas	Addressed ...	Ditto.
,, 14	1 Case, Mr. Abdool Rohuman	Ditto ...	Ditto.
,, 14	1 Case, B B G in a block	Order ...	Ditto.
,, 14	1 Case, B T in a diamond, A J S top	Ditto ...	Ditto.
,, 14	2 Cases, 279 in a diamond	Ditto ...	Ditto.
,, 14	10 Cases, D & Co.	Ditto ...	Ditto.
,, 14	1 Bale, D D D by 44 in a diamond	Ditto ...	Ditto.
,, 14	1 Case, D in a heart	Ditto ...	Ditto.
,, 14	1 Case, E & C	Ditto ...	Ditto.
,, 14	5 Cases, G I C	Ditto ...	Ditto.
,, 14	1 Case, G C B	Ditto ...	Ditto.
,, 14	1 Case, H C G & Co. in a diamond, S & S C below ...	Ditto ...	Ditto.
,, 14	5 Cases, 498 in a triangle, H C B below ...	Ditto ...	Ditto.
,, 14	1 Case, Lawrence Mungo, Esq.	Addressed ...	Ditto.
,, 14	1 Case, L O C K E	Order ...	Ditto.
,, 14	1 Case, 111 in a diamond, M R top, W M & C below.	Ditto ...	Ditto.
,, 14	50 Cases, M P W in a block	Ditto ...	Ditto.
,, 14	6 Cases, N C J in a diamond, G A & Co. outside ...	Ditto ...	Ditto.
,, 14	6 Cases, 186 in a diamond, N S G C outside ...	Ditto ...	Ditto.
,, 14	8 Packages, 2013 in a diamond, O S top ...	Ditto ...	Ditto.
,, 19	1 Cask, 2012 in a diamond, O S & Co. outside ...	Ditto ...	Ditto.
,, 19	2 Cases, O K C	Ditto ...	Ditto.
,, 19	1 Case, D. G. Russel, Esq., care of Messrs. Octavius Steel & Co.	Addressed ...	Ditto.
,, 19	1 Case, The Agent Reuter's Telegram & Co. ...	Ditto ...	Ditto.
,, 19	12 Cases, 1350 in a triangle, S D C below ...	Order ...	Ditto.
,, 19	1 Case, 870 in a triangle, S D C below ...	Ditto ...	Ditto.
,, 19	4 Cases, 925 in a triangle, S D C below ...	Ditto ...	Ditto.
,, 19	4 Cases, 573 in a triangle, S D C below ...	Ditto ...	Ditto.
,, 19	3 Cases, 3010 in a triangle, S D C below ...	Ditto ...	Ditto.
,, 19	1 Case, S S by 267 in a block	Ditto ...	Ditto.
,, 19	2 Cases, 386 in a triangle, S S top	Ditto ...	Ditto.
,, 19	1 Case, 63 in a block within a triangle	Ditto ...	Ditto.
,, 19	1 Case, 1319 in a block within a triangle ...	Ditto ...	Ditto.
,, 19	1 Case, 647 in a diamond, W below	Ditto ...	Ditto.
,, 19	2 Cases, W B C in a diamond, C & Co. top ...	Ditto ...	Ditto.
,, 19	1 Case, 920 in a diamond, W N & Co. outside ...	Ditto ...	Ditto.
,, 19	1 Case, 9 8 in a diamond, W N & Co. outside ..	Ditto ...	Ditto.
,, 19	5 Cases, W M & Co. in a block	Ditto ...	Ditto.
,, 19	1 Case, 1538 in a block within a triangle, W H N below.	Ditto ...	Ditto.
,, 19	3 Bales, 764 in a diamond, W L below ...	Ditto ...	Ditto.
,, 19	11 Kegs, 501 in a diamond, W L below ...	Ditto ...	Ditto.
,, 20	1 Bar flat iron, X green	Ditto ...	Ditto.
,, 19	1 Case, 104 in a diamond, A B & Co. outside ...	Ditto ...	S.S "Clan McIntosh."
,, 19	2 Bundles sheet iron, B & N W P S by Asso ...	Ditto ..	Ditto.
,, 19	1 Bundle, D	Ditto ...	Ditto.
,, 19	5 Packages, no mark	Ditto ...	Ditto.
,, 19	5 Cases, 767 in a diamond, M M top, J K S below ...	Ditto ...	Ditto
,, 22	1 Bundle galvanized sheet iron, B	Ditto ...	S. S. "Engineer."
,, 22	48 Packages, no mark	Ditto ...	Ditto.
,, 22	1 Bale, A H M H in a block	Ditto ...	Ditto.
,, 22	3 Cases, 184 in a diamond, A B & Co. outside ...	Ditto ..	Ditto.
,, 22	2 Cases, 104 in a diamond, A B & Co. outside ...	Ditto ...	Ditto.
,, 22	1 Case, 565 in a diamond, A M & Co. outside ...	Ditto ...	Ditto.
,, 22	3 Cases, G P D in a diamond, W B below ...	Ditto ...	Ditto.
,, 22	7 Cases, K V in a diamond	Ditto ...	Ditto.
,, 22	1 Case, 903 in a diamond, L B top	Ditto ..	Ditto.
,, 22	1 Case, P in a diamond, W M C below	Ditto ...	Ditto.
,, 22	15 Bales, R B C by G	Ditto ...	Ditto.
,, 22	1 Case, 327 in a triangle, S S top	Ditto ...	Ditto.
,, 32	5 Bales, 993 & 93 in a triangle	Ditto ...	Ditto.
,, 22	5 Cases, W D in a cross	Ditto ...	Ditto.
,, 22	1 Case, W T	Ditto ...	Ditto.
,, 22	3 Casks, 761 in a diamond, T top	Ditto ...	Ditto.
,, 22	1 Cask, 761 in a diamond	Ditto ...	Ditto.
,, 22	6 Casks, 761 in a block, T top	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 1st March 1890. (3589—1) THOMAS R. MUNRO, for Vice-Chairman.

Notice.

PURSUANT to the orders of Government, dated the 29th June 1881, particulars of the undernoted items of articles held by the Port Commissioners as Receivers of Wrecks, each article being of value above Rs. 100, are published for general information in accordance with the provisions of section 76, Act VII of 1880.

Date.	Recovery number.	Description of articles.	Weight.	Approximate value.	Where recovered.	Where lying.
		Port Approaches.	Cwt. qr. lbs.	Rs.		
16th August 1889 ...	10 P. A.	One country anchor	46 0 0	225	Poojally Creek	Port Commissioners' Works and Anchor yard.
22nd ,, ,, ...	11 ,,	One Rodgers' patent anchor	15 0 0	200	Ditto ...	Ditto.
		One chain 1⅞" of 30 fathoms	37 2 3			
27th ,, ,, ...	12 ,,	One Rodgers' patent anchor	50 0 0	150	Shisbaria ...	Ditto.
4th September ,, ...	13 ,,	One English anchor	27 0 0	215	Budge-Budge	Ditto.
		One chain 1⅛" of 15 fathoms	16 1 10			
11th ,, ,, ...	14 ,,	One anchor	60 0 0	300	Bimlipatam ...	Ditto.
27th November ,, ...	17 ,,	One English anchor	40 0 0	330	Kulpee ...	Ditto.
		One chain 1⅛" of 15 fathoms	26 3 26			
3rd December ,, ...	19 ,,	One country anchor	23 0 0	240	Do. ...	Ditto.
		One chain 1⅞" of 33 fathoms	35 3 22			
27th ,, ,, ...	21 ,,	One Rodgers' patent anchor	30 0 0	390	Saugor ...	Ditto.
		One chain 1¼" of 32 fathoms	48 3 0			
27th ,, ,, ...	22 ,,	One country anchor	50 0 0	1,060	Ditto ...	Ditto.
		One wooden stock	.. .. ..			
		One chain 1⅛" of 90 fathoms	162 3 12			
27th ,, ,, ...	23 ,,	One country anchor	38 0 4	960	Ditto ...	Ditto.
		One chain 1⅛" of 86 fathoms	154 2 25			
8th January 1890 ...	26 ,,	One country anchor	15 0 0	345	Ditto ...	Ditto.
		One chain 1⅛" of 55 fathoms	34 1 24			
10th ,, ,, ...	27 ,,	One Rodgers' patent anchor	36 3 8	1,585	Ditto ...	Ditto.
		One stock	.. .. ..			
		One chain 1⅛" of 135 fathoms	274 3 8			
13th ,, ,, ...	28 ,,	One English anchor	43 1 25	1,530	Ditto ...	Ditto.
		One stock	8 2 0			
		One chain 2⅛" of 135 fathoms	255 3 26			
10th February ,, ...	31 ,,	One country anchor	12 0 0	305	Ditto ...	Ditto.
		One chain 1⅛" of 62 fathoms	49 0 25			
10th ,, ,, ...	32 ,,	One country anchor	13 0 0	110	Ditto ...	Ditto.
		One chain 1⅛" of 12 fathoms	9 2 3			
10th ,, ,, ...	33 ,,	One English anchor	42 0 0	290	Ditto ...	Ditto.
		One chain 1⅛" of 10 fathoms	17 3 27			

Port Commissioners' Office, Calcutta, the 11th February 1890. E. J. BEAUMONT, Asst. Conservator.

(3545 & 3546—3)

District Charitable Society.

Abstract of Accounts for the month of January 1890.

Budget for 1890.	Receipts.	January 1890.	Budget for 1890.	Payments.	January 1890.
Rs. A. P.		Rs. A. P.	Rs. A. P.		Rs. A. P.
	Subscriptions—				
14,400 0 0	From Government	1,200 0 0	14,629 14 4	District Committees, monthly grant ...	1,338 10 1
2,400 0 0	,, Port Commissioners ...	200 0 0	19,007 14 8	Native Committees, monthly grant ...	1,549 10 8
1,200 0 0	,, Calcutta Municipality ...	100 0 0	.....	Ditto, refund of deposit ...	.....
15,306 0 0	,, the Public	6,173 0 0			
3,000 0 0	{ New Subscriptions	808 0 0	4,890 0 0	{ Commissioner of Police for casual relief and Rations	327 8 9
	{ Donations	2,989 12 3		{ Booking Clerk, E. I. R., Howrah, for Ry. passes	10 0 0
	Allowances towards cost of establishment—		4,048 7 3	Pensions paid through Central Office ...	328 0 0
8,000 0 0	From Government	250 0 0	708 0 0	Schooling-fees	79 0 0
600 0 0	,, Mutiny Relief Fund ...	50 0 0			
500 0 0	Alms House proceeds	31 7 0	4,824 0 0	Alms House:—Establishment	377 0 0
660 0 0	Interest on invested Funds	.....	11,683 0 0	Dieting	899 7 3
32,473 11 6	,, on Trust Funds	188 0 0		Contingencies	165 15 0
125 0 0	Government grant for Leper Asylum medicines	.....	1,500 0 0	{ Boots and shoes (Female Ward) ...	25 11 6
	Miscellaneous accounts	0 4 3	531 10 0	Clothing and bedding ...	.....
	Mutiny Relief Fund, for pensions ...	450 0 0	290 12 0	Municipal taxes	.....
	Deposits and Advances	74 12 5			
	Native Committee's Deposit	200 0 0	1,896 0 0	Leper Asylum:—Establishment ...	158 0 0
			5,400 0 0	Dieting	382 8 0
			700 0 0	Medicines and contingencies	63 5 6
			561 0 0	Clothing and bedding ...	200 0 0
			93 10 0	Municipal taxes	.....
			5,454 0 0	Central Office:—Establishment ...	454 8 0
			682 8 0	Commission on collections	41 14 5
			300 0 0	Auditing fees	150 0 0
			360 0 0	Rent	30 0 0
			600 0 0	Contingencies	50 1 3
			850 0 0	Printing and advertising	56 4 0
			300 0 0	Interest on overdraft	59 4 3
			121 4 8	Bank's commission	0 7 6
				Mutiny Relief Fund pensions	463 0 0
				Deposits and advances	291 12 5
.....	Total ...	12,215 3 11	.....	Total ...	7,531 1 0

MEMO.

	Rs. A. P.		Rs. A. P.
Receipts as above	12,215 3 11	Payments as above	7,531 1 0
Overdraft in Bank of Bengal on the 31st January 1890, Rs. 8,374-6-7, *less* Rs. 138-7-6, cash balance on that date	8,236 15 1	Overdraft in Bank of Bengal on 31st December 1889, Rs. 13,027-6-3, *less* Rs. 107-4-3, cash balance on that date	12,920 2 0
Total ...	20,451 3 0	Total ...	20,451 3 0

CALCUTTA,
The 19th February 1890.

K. MALLIKA,
Accountant.

PATRICK MCGUIRE,
Secretary.

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 28th February 1890.

PARTICULARS.	3½ per cent. transfer loan of 1853-54.	4 PER CENT. LOANS.							4½ PER CENT. LOANS.				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	GRAND TOTAL.
		Of 1832-33.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879 4½ per cent. portion.	Total			
Balance of 15th February 1890 ...	54,700	11,29,387	25,25,900	2,46,77,000	1,06,31,300	3,93,13,500	1,98,72,700	9,81,49,787	39,500	71,48,000	11,08,39,800	11,80,27,300	1,33,800	32,200	21,63,97,787
ADD—															
Amount enfaced at Madras between 16th and 28th February 1890	.....	.....	.....	.....	8,000	.....	.....	8,000	.....	.....	.....	.....	.....	.....	8,000
Amount enfaced at Bombay between 16th and 28th February 1890	.....	.....	.....	3,700	.....	63,500	3,800	71,000	.....	.....	.....	.....	.....	.....	71,000
Amount enfaced at Calcutta between 16th and 28th February 1890	.....	.....	7,000	1,10,000	23,500	2,47,600	34,500	4,22,600	.....	.....	12,000	12,000	.....	.....	4,34,600
	54,700	11,29,387	25,32,900	2,47,90,700	1,06,62,800	3,96,24,600	1,99,11,000	86,51,387	39,500	71,48,000	11,08,51,800	11,80,39,300	1,33,800	32,200	21,69,11,387
DEDUCT—															
Amount written off in the London registers	.....	.....	.....	3,79,800	75,000	2,61,000	45,500	7,61,300	.....	500	36,000	36,500	.....	.....	7,97,800
Balance on 28th February 1890 ...	54,700	11,29,387	25,32,900	2,44,10,900	1,05,87,800	3,93,63,600	1,98,65,500	9,78,90,087	39,500	71,47,500	11,08,15,800	11,80,02,800	1,33,800	32,200	21,61,13,587

NOTE.—From 9th June 1867 to 31st Dec. 1889—Enfaced from India 6,184 lakhs; re-transferred from London 5,358 lakhs.
" 1st Jan. 1890 " 15th Jan. 1890 " " " 5 " " " " 21 "
" 16th " " " 31st " " " " " 3 " " " " 3 "
" 1st Feb " " " 15th Feb. " " " " " 1 " " " " 5 "
" 16th " " " 28th " " " " " 5 " " " " 8 "

6,198
5,395

5,395

Balance against India ... 803 lakhs.

PUBLIC DEBT OFFICE BANK OF BENGAL
Calcutta, the 1st March 1890.

(3592—1)

W. D. CRUICKSHANK,
Secretary and Treasurer

Statement of the Affairs of the Bank of Bengal for the week ending 25th February 1890.

LIABILITIES.	Rs.	A.	P.	ASSETS.	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0	Government Securities	16,43,935	0	0
Reserve Fund	58,00,000	0	0	Other authorised Investments	73,00,326	0	0
Public Deposits at Head Office Rs. 89,15,445 5 8				Loans on Government and other authorised Securities	1,89,00,188	7	10
Ditto ditto at Branches „ 96,89,770 11 1	1,86,05,216	0	9	Accounts of credit on ditto ditto	1 08,75,645	0	3
Other Deposits at Head Office and Branches	2,81,70,371	0	8	Bills discounted and purchased	1,88,11,911	7	9
Bank Post Bills, &c.	6 58,668	15	9	Balances with other Banks	8,92,036	8	11
Sundries	7,12,865	5	6	Bullion	6,942	12	3
				Dead Stock	12,29,253	15	0
				Stamps	13,987	11	0
				Sundries	3,06,060	14	5
					5,99,80,287	13	5
				Cash and Currency Notes at Head Office Rs.	52,30,023	6	8
				Cash and Currency Notes at Branches „	87,36,810	2	7
					1,39,66,833	9	3
Rupees	7,39,47,121	6	8	Rupees	7,39,47,121	6	8

By order of the Directors

F. T. LEWIS, Offg. Chief Accott. W. D. CRUICKSHANK,

BANK OF BENGAL, Rate for Demand Loans 11 per cent. Secy. and Treasurer

Calcutta, 27th February 1890. Percentage 29. (3587 1)

Notices of deaths sent to the Administrator-General of Bengal under Section 61 of Act II of 1874.

Name of deceased.	Place of death.	Date of death.	By whom and when death reported.	REMARKS.
W. Crocroft	Ghazipur	2nd January 1890...	District Judge of Ghazipur, on the 3rd January 1890.	Will left. Assets not known. Executor, Colonel J. W. O'Dowda. No application for administration
Lieut.-Col. G. M. D. Hill...	Dehra Dun	30th „ „ ...	Subordinate Judge of Dehra Dun, on the 3rd February 1890.	Intestate. Assets about Rs. 843. A certificate under section 36 of Act II of 1874 has been granted to Colonel Ralph Ouseley Dhurrain in Dehra Dun by the Administrator-General of Bengal.
Harry Abbott	Agra	2nd „ „ ...	District Judge, Agra, on the 6th February 1890.	Intestate. Assets about Rs 350 Widow has applied to the Court of the District Judge of Agra for administration. Citation issued
J. H. Saunders, plate-layer	Nagpur	8th August 1889 ...	Deputy Commissioner, Nagpur, on the 10th February 1890.	Intestate. Assets about Rs. 89-14. Mother and sister in England. No application for administration.
Revd. A. Delalex, Roman Catholic Chaplain.	Jubbulpore	10th July „ ...	District Judge of Jubbulpore, on the 14th February 1890.	Intestate. Assets about Rs. 103-11. No application for administration.
J. H. Moore	Champa, district Bilaspur.	27th August „ ...	Deputy Commissioner, Bilaspur, on the 8th February 1890.	Intestate. Assets of small value. Father, Mr. J. H. Moore, in England. No application for administration.

ADMINISTRATOR-GENERAL'S OFFICE;
1, COUNCIL HOUSE STREET,
Calcutta, the 3rd March 1890.

L. P. D. BROUGHTON,
Administrator-General of Bengal.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 „ „ 2-12 „
23 „ „ 2-14 „
24 „ „ 3 „

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 „ 2-4 „
Under 7 feet „ 2 „

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Bahramghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Notice.

WANTED three Peshkars or Inspectors, on salaries of Rs. 30 per mensem, for settlement work in the Sonthal Pergunnahs. None need apply who have not a knowledge of plane-table, of compass-surveying and experience in settlement work. Applications with copies of certificates to be sent to the undersigned at once.

J. A. CRAVEN, Settlement Officer.

Damp Camp Deoghur, the 10th February 1890.

Notice.

WANTED a Draftsman and Estimator for the District Engineer's Office, Dinagepore, on a salary of Rs. 50 (fifty rupees only) per mensem.

Applications, with copies of testimonials and drawings, will be received by the undersigned up to 15th March next. An experienced English-knowing man will be preferred.

A. K. MOOKERJEE, District Engineer.

(3563—2)

Notice.

WANTED a Head Assistant for the Wards' Department in the Midnapore Collectorate. He must have an intimate practical knowledge of the method of accounts kept in Wards' estates, and have the qualifications of a good Head Clerk. Pay Rs. 100. Applications with copies of testimonials to be sent before the 10th of March to the Collector of Midnapore.

H. LEE, Officiating Collector.

The 25th February 1890.

Notice.

WANTED an Ameen for three months, on a salary of Rs. 30 per mensem. None need apply who has not got a thorough knowledge of practical surveying. Applications with copies of testimonials should be sent to the undersigned on or before the 25th March 1890.

B. DE., Collector.

Collector's Office, Khulna.

High Court Notice.

ESTATE RAJAH RAJ KISSEN.

Maharajah Sibkristo Bahadoor, *vs.* Kristo Chunder Ghose.

NOTICE is hereby given that on Wednesday, the 12th March next, at the hour of 1 o'clock in the afternoon, the Receiver of the High Court will put up for auction, at his office on the third floor of the Court-house, a lease for six years from the 1st Bysack 1297, corresponding with the 13th April 1890, of the undermentioned property, on the terms and conditions of a draft lease which may be inspected at the said office.

In Zillah Tipperah, Pergunnah Gungamundle, recorded in the Register of the Collector as Towji No. 545, including the Churs appertaining thereto, viz., Nobbo Chur No. 1290, Chur Bahur *alias* Teetoor Chur No. 1508, Chur Surjo and Chur Sunjoora No. 1964, Chur Assad and Doobur Chur No. 21.

In Zillah Dacca, Chur Goagachia No. 10503, Chur Jamalpur No. 10505

For conditions of auction and further particulars apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver High Court.

High Court Receiver's office, the 18th February 1890.

(3562—4)

LETTERS of Administration (with copy Will annexed) of the property and credits of Edward James Jones, late of Calcutta, Deputy Superintendent of the Geological Survey of India, deceased, have been granted by the High Court, Calcutta, to G. W. F. Buckland, Esq., of No. 1, Esplanade, West, Calcutta, as the Attorney of the Executor named in the Will of the deceased. All persons having claims against the deceased are requested to submit same to the Administrator before the 31st day of March next, after which date no claims will be admitted.

J. A. ARCAR, Attorney.

Calcutta, 17th January 1890. (3461—3)

Notice.

WE have authorized Mr. T. Plieninger to sign our firm from this date.

F. W. HEILGERS & Co.

Calcutta, the 24th February 1890. (3567—1)

In the Court of the Subordinate Judge of Rungpore.

EXECUTION CASE No 125 of 1 89.

Guru Das Rai, Bipra Das Rai, and Tarini Prasad Bhattacharjee, executors of estate of late Bhagirath Das of Mahegunge, decree-holders, *versus* Jahiruddin Abu Ali Chaudhuri and others, judgment-debtors.

THE undermentioned property of the judgment-debtors will be put up to sale to the highest bid on the 7th April next at 12 o'clock by the Nazir of the District Judge's Court, Rungpore, in the sale-room—

One half share of lot Khorda Muradpur, &c., bearing towji No. 526, situated in station Molong, of which the collectorate revenue is Rs 2,532-15-5½.

DEBENDRA LAL SHOME, Offg. Subordinate Judge.

Rungpore Subordinate Judge's Court, the 1st March 1890. (3590—1)

Road Cess Notification.

DISTRICT JESSORE.

IT is hereby notified for general information that, under section 46 of Act III of 1885, the District Board of Jessore have determined that the Road Cess for the year 1890-91 in the district shall be levied at the maximum rate, viz. at the rate of one-half of an anna on each rupee of the annual value of lands.

C. J. O'DONNELL, Chairman.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, the District Board of Sarun, at a meeting held on the 19th February 1890, have determined to levy road cess for the year 1890-91 at the maximum rate, *i.e.*, 2 pice per rupee on the annual value of land, &c.

M. SEBAJ-UL-HUG, Vice-Chairman.

Hindu Family Annuity Fund.

Copy of Subscribers' Resolution passed on 28th January 1890.

THAT the Directors be authorized to draw, in the manner laid down in Rule 65, Rs. 13,000 (thirteen thousand only) during the year 1890-91 from the Deposit Account of the Fund with the Government of India to meet the expenditure provided for in the Budget Estimate for that year.

PRAN KISSEN BOSE, Secretary. DENO NATH GHOSE, Chairman.

(3591—1)

Receiver's Office.

TO be peremptorily sold by the Receiver, High Court, Calcutta, and Receiver to the estate of the late Baney Madhub Mitter, at his office on the third floor of the Court-house, on Wednesday, 19th March next, at the hour of one o'clock afternoon, pursuant to the order of Court, dated 26th day of August 1889, all that divided 10-48th part or share of the upper-roomed house situate at No. 87, Shovabazar Street, allotted on partition to Sreemutty Thukomonee Dossee, widow of the said Baney Madhub Mitter, and bounded on the north by Shovabazar Street; on the south and west by portions of the above premises allotted to Nittye Lall Doss and Mone Mohun Doss; and on the west by a filled up municipal drain.

For further particulars and conditions of sale apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver, High Court.

High Court, Receiver's Office, the 25th February 1890.

(3584—3)

Lost.

THE Government Promissory Note No. 238858 of 4 per cent. of 1865, for Rs. 500, originally standing in the name of Debnath Sreemany and last endorsed to Russick Lall Dutt the proprietor, by whom it was never endorsed to any other person; and also the Government Promissory Note No. 188252 of 4 per cent. of 1865, for Rs. 500, originally standing in the name of Kheeromoney Dassee, the proprietress, by whom it was never endorsed to any other person. Payment of the above notes and the interests thereupon have been stopped at the Public Debt Office, Bank of Bengal, and applications are about to be made for the issue of duplicates in favour of the proprietor and the proprietress.

RUSSICK LAUL DUTT, Bally, District Howrah.

(3550—3)

The Indian Patent Stone Company, "Limited."

NOTICE is hereby given that at an Extraordinary General Meeting of the Shareholders of the Indian Patent Stone Company, Limited, held at the Registered Office of the Company, No. 39, Strand, Calcutta, on Thursday, the 13th day of February 1890, the following resolutions, which were passed at an Extraordinary General Meeting of the Company held on Monday, the 27th day of January 1890, were confirmed as special resolutions.

Resolutions.

1. That it is desirable to reconstruct the Company, and that with a view thereto the Company be wound up voluntarily, and that William Brown Colville be and he is hereby appointed Liquidator without remuneration for the purposes of such winding up.

2. That the said Liquidator be and he is hereby authorized to consent to the registration of a new Company to be named the Indian Patent Stone Company, Limited, with a memorandum and Articles of Association which have already been prepared with the privity and approval of the Managing Agents of this Company.

3. That the draft agreement submitted to this meeting, and expressed to be made between this Company and its Liquidator of the first part, Messrs. Bird and Company of the second part, William Garlick and Edward Garlick of the third part, and the Indian Patent Stone Company, Limited, of the fourth part, be and the same is hereby approved, and that the said Liquidator be and he is hereby authorized, pursuant to section 204 of the Indian Companies Act, 1882, to enter into an agreement with such new Company (when incorporated) in terms of the said draft and to carry the same into effect.

(3586—1) W. B. COLVILLE, Liquidator.

I HAVE authorized Mr. M. Dürst to sign my firm per procuration

Calcutta, 14th February 1890.

(3585—3) G. HERBST.

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of SHIBCHUNDER DASS, an insolvent.

On Saturday, the 11th day of January last, it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter, and that, unless cause be shewn to the contrary on that day, the said insolvent be discharged personally as well as to his after-acquired property from all liabilities for debts, claims and demands of and against the said insolvent at the time of the filing of his petition for relief.

Insolvent in person. (3572—2)

In the matter of HURDOYAL, KANNOYALALL, SODARAM SHAM LALL, DOONGOORSEEDASS, SREENNEBASH BUNGSHEDHUR and SUJUNCOOMAR of No. 90, Sootaputty, in co-partnership as piece-goods dealers, under the style or firm of Heemutram, Sujuncoomar, insolvents.

On Tuesday, the 28th day of January last, it was, on the petition of Nitram, a creditor of the said insolvents, adjudged that the said insolvents have committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvents were vested in the Official Assignee.

Wilson and Chatterjee, Attorneys. (3573—2)

Chief Clerk's Office, the 25th day of February 1890.

In the matter of KRISTO DHONE GHOSE and others, Insolvents.

On Saturday, the 11th day of January last, it was ordered that the order of adjudication against the said insolvent Roma Nath Ghose, made in this matter on and bearing date the 9th day of April last, be and the same is hereby revoked and the vesting order made thereon be discharged, provided always that all acts or things done by the Official Assignee of this Court or other person acting under his authority prior to this order shall be good and valid and shall not be annulled or in anywise affected thereby.

C. F. Pittar, Attorney. (3593—1)

In the matter of HEROMBO CHUNDER BOSE, an Insolvent.

On Friday, the 17th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

P. N. Paul, Attorney. (3594—2)

In the matter of GOBIND CHUNDER MITTER and another, Insolvents.

On Thursday, the 23rd day of January last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the 19th day of April next, and that the said insolvents do then attend to be examined before the said Court.

N. G. Neoghy, Attorney. (3595—2)

In the matter of ROBERT WALTER HALL, an Insolvent.

On Saturday, the 8th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

C. F. GEDDES, Attorney. (3596—2)

In the matter of HORI NATH SHAHA and another, Insolvents.

On Saturday, the 8th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3597—2)

In the matter of BHOOBUN MOHUN BOSE, an Insolvent.

On Monday, the 10th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3598—2)

In the matter of ROGER GEORGE SETON CHEW, an Insolvent.

On Tuesday, the 11th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3599—2)

In the matter of GEORGE ROBERT CLAMPITT, an Insolvent.

On Tuesday, the 11th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3600—2)

In the matter of NORRIS GRIFFITHS, an Insolvent.

On Wednesday, the 12th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attened to be examined before the said Court.

Wilson and Chatterjee, Attorneys. (3601—2)

In the matter of JOHN HENRY GRACIES, an Insolvent.

On Thursday, the 13th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3602—2)

In the matter of GEORGE ANDERSON, an Insolvent.

On Friday, the 14th day of February last, it was ordered that the matter of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Remfry and Rose, Attorneys. (3603—2)

In the matter of BHOOSUN [CHUNDER COONDOO, an Insolvent.

On Friday, the 14th day of February last, it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter, and that unless cause be shown to the contrary on that day the said Insolvent be discharged personally as well as to his after-acquired property from all liabilities for debts, claims and demands of and against the said Insolvent at the time of the filling of his petition for relief.

Insolvent in person. (3604—2)

In the matter of DAVID JOSEPH ROBINSON, an Insolvent.

On Monday, the 17th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3605—2)

In the matter of RIDH KUBRUN, an Insolvent.

On Tuesday, the 18th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

H. C. Chick, Attorney. (3606—2)

In the matter of SHAIK KHAZABUKSH, an Insolvent.

On Friday, the 21st day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3607—2)

In the matter of BENJAMIN JACOB, an Insolvent.

On Saturday, the 22nd day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person.

Chief Clerk's Office, the 4th day of March 1890. (3608—2)

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	11th March...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	10th ,, ...	Ditto.
Mauritius, Mayotte, Nossi Be and Réunion.	11th ,, ...	Ditto.
Zanzibar, Mozambique, Delagoa Bay, Natal and Cape Colonies.	11th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	10th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	10th ,, ...	Ditto.
Madras and Colombo ...	5th ,, ...	Per P. & O. steamer *Chusan*.
Straits China and Japan ...	8th ,, ...	Per str. *Japan*.
Rangoon and Moulmein ...	5th ,, ...	Ditto *Rajpootana*.
Ditto ditto ...	7th ,, .	Ditto *Sardhana*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	5th ,, ...	Ditto *Madras*.
Port Blair ...	5th ,, ..	*Vid Rangoon*.
Natal and Mauritius ...	6th ,, ...	Per str. *Warora*.
Durban, Port Natal, East London, Port Elizabeth, Algoa Bay, Mossel Bay and Cape Town.	8th ,, ...	Ditto *Umtata*.

N. B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 4th March 1890.

Unclaimed Letters held in the Calcutta General Post Office on 4th March 1890.

Alderson & Co.
Arbuthnot, Mrs. G. J.
Brown, M M.
Chuffoux, B.
Cohen, A. M.
Cristal Tea Co.
Golmer, E.
Hitch, W E.
Johnson, H L.
Melville, Isaac.
Pirrie, J. S.
Presgrave, Richard Duncan.
Prinsep, L.
Richards, Mrs.
Rowe, E. F.
Secretary, Druggists Assembly.

Letters marked Care of "Post Office."

Allen, C. H.
Babonau, E. Hugh,
Baldwin, W. H.
Barker, F. W.
Barnes, W.
Baxter, Mrs.
Berkeley, C. M.
Brincat, Salvator.
Brown, W.
Bruce, R. G.
Carbery, Lady.
Charmetaut, Mr.
Chatterton, J.
Close, Henry.
Cooper, W.
Del'alma, Urbans.
DeVitre, D. F.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Dymond, G. F.
Elliott, K.
Elmore, John S.
Fergusson, J. H. and Co.
Filleul, Rev. S. E. V.
Fisk, F. M.
Forshaw, H.
Fraiser, H. C.
Fraiser, Miss F.
Francis, A. M.
Gantzman, Charles.
Gifford, H. J.
Glover, W. E.
Green, W. W.
Griffiths, A. E.
Guillet, E.
Hamilton, C. J.
Hamilton, J. R.
Handcock, J. G.
Hardy, Mrs. M.
Hawksworth, Mrs.
Hewett, F. J.

Letters marked Care of "Post Office."

Heyward, Mrs. W.
Higgins, C. C.
Hilder, F.
Horus, Miss M. L.
Humphries, Mrs. H.
Hunter, H. C.
Jackson, T.
Johannesson, O. C.
Kennard, F.
Kobue, J. D.
Lach, R.
Lamb, E. G.
Langer, J. O.
Linton, C. E.
Livesey, Thomas.
Long, W.
Macdonald, E. B. D.
Mackenzie, J.
Major, A.
Manual, A. M.
Matthews, J. R.
Mathewson, F.
Maxwell, Sir J. S.
Mayes, W. H.
May, J. J.
McAdoo, Mr.
McNair, Miss.
McSmith, D.
Menexis, Mrs. C.
Menzies, C.
Mifsud, George.
Mole, P. C.
Morgan, Mrs. R.
Morshead, L.
Newby, C. R. A.
O'Mealy, Capt. D'Oyly.
Payne, E. H.
Penn, Mrs.
Platts, Mrs. S. K.
Potokie, Count J.
Powell, F.
Prenter, Miss.
Remmington, Captain F. A.
Rennrick, F. B. M.
Rennard, J. R.
Robinson, G
Rosenstorn, Otto.
Roskell, Richard.
Ross, J. D.
Rubie, Phil C.
Russell, Donald.
Sano, T.
Searle, F. W.
Sheumon, John.
Shrewsbury, Miss.
Shworth, T. K.
Skinner, J. C. M.
Soler, M.
Thomson, Captain W. A.
Thompson, D.
Tullock, Herbert.
Ursite, Johan.
Walter, F.
Walter, Amherst.
Weatherels, Harry.

Registered Letters.

Chiodetti, A.
Edwards, C.
Guiseppe, Celestini.
Leonard, C. B.
MacLeod, D. J.
Marsland, W.
Mifsud, George.

Unclaimed Letters held in the Barrackpore Post Office on the 3rd March 1890.

Blackwell, Sergt. W.
Browne, A. J.
Crawther, J.
Ferguson, H. F.
Patwhyloch.
Thompson. Jas.
Wallace, Rev.

E. HUTTON,
Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 28th February 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	0 3	At mouth entrance practically closed.
	Thence to Nurpur	0 6	Dhopipara.
	From Nurpur to Jungipur ...	0 8	Bangabari
	,, Jungipur to Berhampur	0 10	Kesadanga.
	,, Berhampur to Cutwa ...	1 3	Biderpara.
	,, Cutwa to Nuddea ...	2 0	Karkona.
Bhyrub-Jelinghi.	Entrance from Ganges ...	5 0	
	Thence to Akriganj	5 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	3 6	Chukjama.
	Thence to Patkabari	4 6	Patkabari.
	Patkabari to Nuddea	3 9	Gopinathpore.
Matabanga.	Entrance from Ganges ...	2 0	
	Thence to Chuypara ...	0 4	Ramkistopore.
	From Chuypara to Shikarpur	0 3	Pragpore.
	,, Shikarpur to Boalia ...	0 3	Shampore.
	,, Boalia to Chuadanga ...	2 3	Sialmari.
	,, Chuadanga to Kissengunj and Hanskhali...	2 3	Bahelohana.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet.	Feet.	
Ganges.	Sahebganj ...	1-3-90	6	2 16	65·84	Below zero.
	Rampore Boalia	1-3-90	12	0·31	42 31	
	Entrance of Bhagirati ...	1-3 90	7	1·60	46·91	
	Entrance of Bhyrub-Jelinghi ..	1-3-90	...	6·04	44·40	
	Entrance of Matabanga ...	1-3 90	...	2·16	.....	
Bhagirati...	Berhampur ...	3-3-90	12	1·92	35·71	
Jelinghi ...	Kishnaghur ...	28-2-90	...	3·58	12·47	
	Saroopgunge ...	1-3-90	6	2·42	6·72	
Matabanga	Hanskhali ...	28-2-90	...	2·16	13 01	

PURNA CHANDRA BOSE, *Accountant, for Exe. Engr., Nuddea Rivers Division.*
Berhampore, the 3rd March 1890.

The Indian Law Reports,

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R. H. WILSON,
Offg Secy. to the Govt. of Bengal.

The 24th February 1886.

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The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

PART III.

Acts of the Bengal Council.

GOVERNMENT OF BENGAL.

LEGISLATIVE DEPARTMENT.

[First Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 20th January, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 18th February, 1890, is hereby published for general information:—

ACT No. I OF 1890.

An Act to consolidate the Calcutta and the Suburban Police Superannuation Funds.

Preamble.

WHEREAS it is expedient to consolidate the Calcutta Police Superannuation Fund constituted under section 16 of Act IV, 1866 (the Calcutta Police Act, 1866), and the Suburban Police Superannuation Fund constituted under section 10 of Act II, 1866 (an Act to provide for the better regulation of the Police within the Suburbs of the Town of Calcutta); It is hereby enacted as follows:—

Amendment of section 16 of Act IV, 1866, and section 10 of Act II, 1866

1. Section 16 of Act IV, 1866, and section 10 of Act II, 1866, from the words "and shall be applied" to the end of the said sections, respectively, are hereby repealed.

Consolidation of Police Superannuation Funds.

2. The Police Superannuation Funds, constituted respectively under section 16 of Act IV, 1866, and section 10 of Act II, 1866, shall be consolidated, and shall form one Police Superannuation Fund; and shall be applied from time to time to the payment of the charges, including salaries, pensions or gratuities, incurred in the control and management of the said fund, and of such superannuation or retiring allowances or gratuities as may be ordered by the Local Government at any time to any member of the Calcutta or Suburban Police Force:

Provided that any such member may be dismissed or removed without a superannuation allowance, and that no such member shall be entitled as of right to any allowance from the said Fund, or shall retain any right to a refund of any deduction made from his pay while employed as such member.

Repeal of section 17 of Act IV, 1866, and section 11 of Act II, 1866.

3. Section 17 of Act IV, 1866, and section 11 of Act II, 1866, are hereby repealed.

Proceeds from fines, &c., to be credited to Police Superannuation Fund, or such other Fund as the Local Government may direct.

4. All sums accruing from stoppages from members of the Calcutta or Suburban Police Force during absence from sickness or other cause, and fines imposed on members of such force for misconduct, and all sums accruing from fines imposed by Magistrates upon drunken persons, or for assaults upon members of such force; and all moneys arising from the sale of worn or cast-off clothing or other articles supplied for the use of the members of such force, shall be credited to the Police Superannuation Fund, or to such other Police Fund as the Local Government may, from time to time, direct.

Local Government may make rules for granting pensions and gratuities.

5. The Local Government may, from time to time, make rules to regulate the granting of pensions and gratuities out of the said Superannuation Fund.

CALCUTTA;
The 27th February, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal, Legislative Department.

[REGISTERED No. 29.]

No. 10 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

OFFICIAL PAPERS.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 22nd February, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General*.

The HON'BLE F. B. PEACOCK.

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The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE H. PRATT.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARY GHOSE.

CALCUTTA PORT BILL.

The Hon'ble SIR HENRY HARRISON moved that the clauses of the Bill to consolidate and amend the law relating to the port of Calcutta, and to the appointment of Commissioners for the said port, be further considered for settlement in the form recommended by the Select Committee.

He said:—"In moving that the Bill be taken into further consideration, I would like to say one word regarding the notice which I have given for the suspension of the Rules. I am in hopes we may find that there is no matter of serious controversy between us to-day, and therefore there is no reason why the Bill should not be passed at this meeting of the Council. At the same time I will not press that motion, if we find that there is any considerable difference of opinion. I may say that there is nothing further from my mind than to ask the Council to rush the Bill through, or to force its hands in any way. But supposing we find the remaining sections are settled by general agreement, it seems a great pity that the Legislative Council should be called together for a formal matter. It will depend a great deal upon the course the proceedings may take."

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved that the following proviso be added to section 96 of the Bill:—

'Provided that any order made and published under this section which shall have the effect of rendering it unlawful to land or ship any goods out of or into any vessel at any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover, had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.'

He said:—"The amendment I move should be considered from two different points of view. On the most important, viz. the point of principle, I have found myself entirely in accord with the hon'ble member who represents the views of the Chamber of Commerce, and that is, that if any jetty, wharf or other structure is closed under section 96, there is no reason why the owner should be put in a worse position than when it is dealt with or destroyed under section 85. It may be because there is a certain affinity between shallowness and clearness; but, certainly, whatever the cause may be, it seems to me manifestly clear that section 96 is not intended as a section for evading the principle we have conceded in section 85. If the existence of any private wharf, jetty or other structure is disadvantageous to the good administration of the port, or interferes with the navigation of the river, it becomes the duty of the Port Commissioners to obtain the leave of the Government to close it or to remove it; or it may enter into terms with the owner of the wharf or jetty for the proper use of it under section 95.

"The primary object of section 96 is, that when the Commissioners have been at the expense of putting up wharves for the convenience of the public, the well-being of the trade of the port may depend upon the Commissioners being able to put such wharves to their full use; for if that cannot be done, then the loss would be incurred simply at the expense of the trade of the port. Therefore, it is necessary that the Commissioners should have power to insist upon the trade coming to the wharves which they have provided.

"Incidentally, that gives them ample power of acting against private jetties or wharves which they may have allowed to stand under section 85; because they may say that, all the trade within a certain distance, must come to their jetties and wharves, and therefore the use of any other jetties or wharves which may have been in use up to that time must be stopped. At the same time it seems perfectly clear that, it will not in the least degree be just that the Commissioners should be put in a better position than if they had dealt with the jetties and wharves under section 85. Therefore, the intention is, that the owners of these private structures should be placed in precisely the same position as regards the right to compensation, as they would have been if the Port Commissioners had thought fit to proceed directly under section 85.

"It may be said that you ought not to give the same compensation for jetties which are allowed to stand, as for those which are removed. This is a small point, and the objection appears to me insignificant. If you do not deprive them of the jetty itself, but only close it, possibly it may be of some material use; but, even in that case, I think it far better to safeguard the interest by saying that they shall have the same right to compensation which they would have had, if the jetty had been removed altogether, than to make any wire-drawn distinction as to what deduction should be made from the compensation. So much as to the principle, and I hope the Council will be entirely in accord as regards the principle.

"Then comes the other difficulty as regards its wording. A difficulty arises as regards the omission or inclusion of the word 'docks' which cannot be avoided, because section 85 makes no allusion to private docks. Section 85 only refers to the removal of structures below high-water-mark, whereas section 96 refers to docks. It says:—

'When any dock, wharf, quay, stage, jetty or pier for receiving, landing, or shipment of goods from vessels (not being sea-going vessels) shall have been made and completed with all proper appliances in that behalf, it shall be lawful for the Commissioners in meeting, with the sanction of the Local Government, by an order published in three consecutive numbers of the *Calcutta Gazette*, to declare that such dock, wharf, quay, stage, jetty or pier is ready for receiving, landing, or shipment of goods from vessels (not being sea-going vessels); and in the same way to order that within certain prescribed limits, to be therein specified in that behalf, it shall not be lawful, without the express sanction of the Commissioners to land or ship any goods out of, or into, any vessel (not being a sea-going vessel) of any class specified in such order, except at such dock, wharf, quay, stage, jetty or pier.'

"As a matter of fact there are no docks in existence for landing and shipping goods from inland vessels, and if they exist, they must be on private land. Therefore, there is this difficulty. If we put in the word 'dock,' then we have the difficulty in regard to section 85; and if we omit the word 'dock,' then we do not meet the case of a dock being found within the limits of the port. But as matters stand, it is not a matter of consequence, because there are no such docks in existence; and it is extremely improbable that any private person will be at the expense of constructing a dock for the loading and unloading of goods from inland vessels: as for that purpose, jetties or wharves are so manifestly more convenient.

"If the Hon'ble Mr. Moore thinks that the section would be improved by the insertion of the word 'docks,' then the Council would be in a difficulty, because we should be referring to a section which did not authorise it. But the better course seems to me to be to leave out the word 'docks,' seeing that there are no docks of this kind to be closed. You will see that the Hon'ble Mr. Moore has withdrawn his amendment in which the word 'docks' was inserted, but I think he will raise no objection to the word being omitted in this section; and therefore I move that the following proviso be added to section 96 of the Bill:—"

'Provided that any order made and published under this section which shall have the effect of rendering it unlawful to land or ship any goods out of or into any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover, had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.'

The Hon'ble MR. MOORE said:—"I would explain that I withdrew my amendment to section 96 on the understanding, there was some technical objection to it; and because to the best of my belief, the one submitted by the Hon'ble Sir Henry Harrison meets the principles I have been contending for, of proper compensation being made for acquiry of private property, which has already been admitted and legislated for by this Council in section 85 now passed, and has just been clearly expressed again by the Hon'ble Sir Henry Harrison. This reform, however, would have been entirely nullified if section 96 were left as it now stands in the Bill; for it gives absolute powers of closure of private wharves, which is of course exactly equivalent in effect to seizure and removal under section 85, without any provision for compensation to the parties injured, and a very serious injury might be done, if, for instance, for power to ship and land goods at their doors, there were substituted a mile or so of cartage to ship and

land goods at a Commissioners' jetty distant from them which, under this section, the Commissioners have power to enforce upon any private person, should it suit their purposes to do so.

"I have no objection to the omission of the word 'dock,' because the section deals with landing and shipping, and in the interpretation chapter of the Bill, the word 'wharf' is described as referring to any place used for landing and shipping goods. I trust there is no necessity to urge on the Council to carry this amendment; and that the argument against it may not be brought forward that, because it was not done in 1870, when the subject was thoroughly threshed out, it should not be done now. The principles involved in the alterations in these sections were not threshed out in 1870. No one interested noticed or foresaw the effects of the sections as passed, nor the gross abuses of power to which it might lead, until actual experience forced it upon public notice.

"That experience found in the manipulation of this very section 96, as set forth in the memorial of the Chamber of Commerce, I can assure this Council, contains no exaggeration at all, and is in itself ample justification for the addition to it of the proviso moved by the Hon'ble Sir Henry Harrison. It conveys, I believe, nothing more than the acceptance of the principle now contained in section 85, and admitted at our last meeting in the plainest terms by the Hon'ble Messrs. Peacock and Nolan, as an undisputably fair axiom, viz., that private property must not be subjected to summary confiscation, but only made liable when circumstances of public need necessitate it to be acquired on payment of proper compensation.

"I would add one point. I am not sure whether, as the section now reads, it is necessary to get the sanction of the Local Government before notifying the closure of a private wharf. I only read it to apply to notifying that the Commissioners' wharf is ready. If, therefore, such is the reading, I would wish to move that the necessary words be added to make it obligatory on the Commissioners to obtain the Local Government's sanction to the Act before closing a private wharf."

The Hon'ble MR. NOLAN said:—"I rise somewhat early in this discussion, because, while quite accepting the principle of this amendment, I see objections to the manner in which it is worded, and think that, before it can be accepted, it should be recast. In the first place, it confines the payment of compensation to cases in which orders are issued under section 96 closing wharves to country boats; although it seems that, on the principle enunciated by the last speaker, and accepted by the mover, compensation should also be given where wharves are closed to sea-going vessels by an order under section 96. And in the second place, I consider that the compensation, when allowed, is calculated on a wrong principle, and is excessive in amount. The amendment would entitle the owner of a wharf or pier to be compensated for a simple prohibition to land one class of goods to the full amount which he could claim, if his wharf had been entirely destroyed. This is a novel rule, and I fail to see anything in its favour. Take, for example, a wharf constructed to land coal from sea-going vessels; if, by an order under section 96, the Port Commissioners prohibit the owner from using it for country boats, they probably do him no harm whatever, and it would be absurd to make them pay as if they had altogether annihilated the value of his property. It should be remembered that the definitions of the Bill are very wide—almost anything near the river may be treated as a dock or pier, or wharf, and its full value demanded on the issue of an order of the kind contemplated. I do not understand how the Hon'ble Sir Henry Harrison stated that, there is no private dock in Calcutta; a 'dock' being defined to include 'all wharves, warehouses, and tramways.' [SIR HENRY HARRISON:—"Appertaining to a dock."] That is so; but a 'wharf' is defined as including any foreshore used for loading, a pier to include any floating barge or pontoon, for whatever purpose used. Now, if we prohibit landing certain goods on a foreshore, should we, as now proposed, pay the full value of the foreshore? It remains useful for other purposes. And if we pass a similar order in regard to a pontoon, must we give the price of the pontoon as if it had been consumed by fire? The measure of compensation should be the loss caused by the order passed, not the loss which would accrue had action been taken of a nature entirely

different. The matter will become very serious if the port extends or changes. This is not like the section we discussed last Saturday, a provision never enforced, but the key to the whole work of the Port Commissioners.

"I am inclined, also, to think that the principle on which compensation is to be assessed should be considered further, with a view to excluding the large claims which will be made on account of loss by port dues. These dues will be useless, if the Commissioners have to indemnify beforehand those who will have to pay them. The amendment has not been long in the hands of members, and I have but recently considered it in detail, being under the impression that it was accepted by all parties, and would be found unexceptionable. I am not, therefore, prepared with a draft embodying the view put forward, but hope that the member in charge of the Bill may be able to meet these objections by modifying his motion."

The Hon'ble Mr. Allen said:—"When I first saw the amendment standing in the name of the hon'ble member in charge of the Bill, I had resolved to offer the strongst opposition I could find to urge against it; but that determination was afterwards somewhat modified by the consideration that, under the present condition of things, it has little or no practical bearing. But the amendment offends grievously against principle, the common principle of honesty.

"The Hon'ble Sir Henry Harrison and the Hon'ble Mr. Moore have both treated this amendment of section 96 as if it was simply an appendage to the amendment of section 85, which the Council accepted on the last occasion. This I regard as an entire mistake. The provisions of section 96 are totally and altogether separate from any of the provisions contained in section 85, nor do they relate to the same state of things. Section 96 operates on the port as it now exists. Section 85 comes into operation only in the event of the port being extended.

"On the last occasion you, Sir, were pleased to remark that the whole discussion stirred up by the Chamber of Commerce was for nothing better than a phantom. The amendment which is now before the Council is a provision to guard against danger from the accident of a phantom. Were this matter on the footing on which both the Hon'ble Mr. Moore and the Hon'ble Sir Henry Harrison have treated it, I should no more think of offering a word of opposition, than I would if the Hon'ble Sir Henry Harrison had chosen to stand godfather to a provision to secure damages for infringement of patent to those joint-stock companies of Laputa, who held exclusive right of extracting sunbeams from cucumbers. Under present conditions, no practical effect can follow either from the section itself or the amendment.

But, as a matter of fact, there may arise circumstances when they would assume importance. A serious principle is involved in the amendment before the Council; and, under certain conditions, the question may become one of practical importance. Our section 96 of the Bill is no new section. The Justices for the Port of Calcutta were appointed in 1866, when, for the first time, an attempt was made to afford facilities in the landing and shipping of goods; and they were vested with certain powers. Among those powers were these, that when they had provided sufficient facilities for discharging and loading, they should have the right to insist upon ships using those facilities and paying tolls for them. Those powers had been given by the Act of 1866, and were continued in the Act of 1870, which distinctly gave a monopoly of the right to levy tolls; and the latter part of this section, by which they were authorised to forbid the use of other places than those they had provided, was simply the means by which that monopoly was declared.

"Furthermore, a section was put into the Act (section 33 of Act V of 1870) by which they were strictly prohibited from alienating any powers which, under the Act, they had acquired. The case under this section is exactly similar to that of a public ferry. As soon as a public ferry is established and let to a farmer, that farmer is entitled to a monopoly to cross over passengers within a distance of two miles below and two miles above his ferry. Within that distance of four miles no person can run a ferry in opposition to him. This is the principle which the section of Act V of 1870, as it stands, rigidly insisted upon.

"Now, Sir, having created this monopoly in favour of the Port Commissioners, they were by Act IV of 1880 authorised to go into the market and borrow money on the security of their monopoly, and by the same Act their

tolls were pledged to the public as security. The amendment which is now before the Council distinctly cuts at the root of that monopoly. It recognises the right of private competition with the Port Commissioners; and having destroyed the monopoly, it says that, before the Commissioners can re establish that monopoly, they must buy up all the rights along the bank of the river. I consider, therefore, Sir, that in passing this amendment, we shall be guilty of a serious breach of faith with those persons who have advanced their money.

"It may be quite possible that the assets in the hands of the Port Commissioners are sufficient to meet all liabilities But be that as it may, I consider the Council should not, after having passed an Act pledging certain rights and certain revenues as security, come forward now, and without the consent of the debenture-holders, without even consulting them as far as I know—probably if they had been consulted they would have consulted Mr. Woodroffe, and we should have had a separate opinion as to how these persons' (the creditors) interests will be affected, then perhaps the Council would have been in a position to select a safe path on which to travel by taking the resultant of the conflicting responses. But without the consent of the debenture-holders, and without any regard for their interests, and without consulting them, to cut down the monopoly by these words will, it appears to me if the proposal be carried, reflect no credit on this Council

"As a matter of fact, however, I believe that no result will follow under the present condition of things, even were the legal monopoly cut away; and for this reason, that between Kidderpore and Cossipore, the present practical limits of the port, the whole of the foreshore on this side of the river is already the property of the Port Commissioners. Though legally the monopoly would be destroyed, practically the monopoly would be continued, and for this reason I do not think it worth while to offer much opposition to the proposal. But I must insist on the point of principle. I must point out that if such circumstances arise as that this foreshore between Kidderpore and Cossipore should not be available for the landing and shipping of goods, and it should become necessary that the shipping be sent further down where the whole foreshore belongs to private individuals, the consequences, if this amendment stands in the law, would be something beyond all calculation in the way of expense. As long as the monopoly of tolls exists in the Commissioners, whether this part or some other part of the river bank is used for shipping, it is perfectly immaterial to the debenture-holders. As long as the shipping comes to the river, and the tolls are levied, their security will be untouched. But if the monopoly be taken away, and anything happened to compel the Port Commissioners to remove their operations where the wharfage rights of every foot of the land would have to be bought, it appears to me that the security of the debenture-holders would be uncommonly weak.

"We know that at present the general opinion about the docks at Kidderpore is, that they are very likely to prove a white elephant, to provide provender for which may use up a large part of the surplus resulting from the other sources of revenue which the Port Commissioners enjoy. This may be true or it may not be true, still its possibility ought to be a reason why caution should be exercised in touching in any way the security upon which money has been advanced.

"In the definition of 'wharf' which is given in this Act, it will be found that the word 'wharf' includes 'any bank of the river which may be improved to facilitate the loading or unloading of goods.' Suppose now that the river between Kidderpore and Cossipore became useless, six coolies working for six days on the banks at Garden Reach would create a wharf, and every owner who has a frontage to the river can thus, by sloping off a part of the bank, create a wharf, by which he would be entitled to compensation at any time, should that neighbourhood be afterwards utilised by the Port Commissioners for discharging cargo. The amount of compensation for which the Commissioners would thus be rendered liable would be vastly greater under those circumstances, than possibly either the Hon'ble Sir Henry Harrison or the Hon'ble Mr. Moore has any idea of. I take it that, when a jetty-builder comes in under section 85, the measure of compensation he would receive from a Civil Court would be at least twenty years' purchase of the toll on every bale of goods that passes over the wharf destroyed, and twenty years' purchase of the cartage to which he would be rendered liable by the removal of his jetty. If, therefore, circumstances should give any practical effect to this amendment, the expense would be such as to swamp the Port Commissioners completely.

"I think, therefore, that, on the question of principle, which is what I am mainly interested in, the Council will be wise to allow the law to stand as it has existed for the last twenty-four years, and as it has again been enacted by the Government of India in the Act passed ten years ago for the port of Rangoon, and which principle is also asserted in the Act passed by this Council three years ago for the port of Chittagong. By letting this amendment come into our Act, we shall break completely adrift from all the Port Acts passed for this side of India from the commencement.

"If the debenture-holders had been consulted, it is highly probable they would have taken the opinion of Mr. Woodroffe; and there can be little doubt what the opinion of Mr. Woodroffe would have amounted to, had he been consulted. It is safe to say that Mr. Woodroffe would have concluded thus: 'If the Bengal Council accept the amendment of section 96 proposed by the Hon'ble Sir Henry Harrison, the Government of India should be memorialised to withhold its assent to the Act.'"

The Hon'ble Sir Charles Paul said:—"When the poor inhabitants of the Suburbs of Calcutta set up a cry that they would be ruined by the excessive taxation to which they would be subjected by reason of the extension of the municipal limits, I think the mover of the new Municipal Act told them that it could not be helped, because the extension of the municipal limits was necessary for the improvement of the health of Calcutta, and that private circumstances and private losses must give way to the public good. I think that precisely the same argument will apply here, that it is necessary for the improvement of the port of Calcutta, that the Port Commissioners should be armed with powers for re-imbursing themselves for the duties incident to their office.

"The Port Commissioners have, for a great many years, kept the river in a proper state, and incurred considerable expense: the gentlemen who have private wharves have had the benefit of all that expense without paying anything towards it; and from the point of view I look at it, they have been sufficiently remunerated for any private wharves they have constructed, namely, they have had the use, without paying for the improvement of the river which enabled them to use those wharves.

"Now, on principle, what is the grievance of which they complain? As to the analogy which has been put forward by the Hon'ble Sir Henry Harrison with an air of fairness, I wish to say a word. I shall presently show that there is no analogy between the two cases. They cover entirely different grounds, and come under entirely different heads. They complain that, they have hitherto been in the habit of landing and shipping their goods in a convenient way at wharves erected by themselves; that, by extending the limits of the port so as to include those wharves within such limits, they will be disabled from using the conveniences which they had been using before, and they will be compelled to pay tolls for the landing and shipping of their goods. That is the main inconvenience that is thought of here, and I hardly think that the compensation which they claim is simply the value of the structure or thing which they have put up. If that is all, the loss which they will suffer will be very little indeed, because they have had the use of those structures for a number of years. But they wish to get some means of recouping themselves with regard to the tolls which they will have to pay; or, in other words, they wish to get a monopoly of their own against other persons, their competitors in trade.

"The object of the amendment is to put them into a more favourable position; but if that object is once perceived, it is enough for the Council to say that such a position cannot be tolerated. If the object is simply to have the value of their structures, wharves, jetties and so forth, then by all means let it be put in exact words, namely, that where a person is deprived of the use of a wharf by reason of the operation of section 96, the Port Commissioners shall pay him the present value of the wharf, plus the appliances used with such wharf. Let the amendment be so devised, but the present vague way of putting it, is objectionable. I will now refer to an Act of Parliament by which privileges have been taken away without the grant of compensation. The Statute, 16 and 17 Vic., Cap. 93, was passed for the levy of tolls in certain harbours in Scotland.

"Under the provisions of this Act, the Burghers were entitled to apply it. If they did not wish to apply it, they need not. But if they applied it, the

effect produced by section 15 was the abolition of all exclusive privileges, and the levy of tolls equally on all persons. Here is an Act which, when applied, took away all privileges which had previously existed without providing compensation. Now the object of the Hon'ble Sir Henry Harrison's amendment is, to give compensation for this privilege of landing and shipping goods from private wharves.

"I say that the object of section 96 is to take away a privilege which these persons have hitherto enjoyed, and the idea of putting every person on precisely the same footing is not inequitable, if it be conceded that the object is the improvement of the navigation of the river. And that being so, no compensation should be given. Although section 96 provides for no compensation, yet this amendment says that, compensation may be given for the immediate results of that provision. What is the meaning? The proposed proviso says, 'to recover the same compensation that he would have been entitled to sue for and recover, had the wharf, &c., been removed, filled up, or destroyed under the provisions of section 85.' Under this section, a claim may be made for the value of the structure and all the profits derived therefrom; in other words, the capitalised amount which will represent the value of the tolls and appliances for twenty years. No doubt, the amendment has been made as guarded as it possibly can be. Still there is a difficulty about it, and I say that, if the amendment is persevered with, it must be drafted on other lines. The exact thing for which you are to pay compensation must be stated.

"Now, it is stated by the Hon'ble Sir Henry Harrison that, if you pay compensation for the removal of a jetty, why should you not also pay compensation for prohibiting the use of a jetty? I shall give a very short answer to that. I say that they are two very different things. The removal of a wharf prevents the person who had that wharf from using it But a prohibition to use a particular wharf does not necessarily have the same effect as its removal. If the Commissioners do not remove or destroy a particular wharf or jetty, and allow such wharf or jetty to remain, they are entitled under the provisions to permit the use thereof. There appears to be no impediment to their entering into a contract for the landing and shippings goods as before upon the payment of tolls, less the value of labour and appliances.

"The argument by analogy is a powerful argument, if you can show the analogy. The difficulty is to show the analogy.

"There is another objection. This Bill is, divided into various parts. Now section 85 comes under Part VII, 'Of the erection of wharves, quays, stages, jettys, piers or moorings,' and section 85 allows of the removal or destruction of private wharves, &c. Then we come to Part VIII of the Bill, regarding the landing and shipment of goods. These two parts of the Bill treat of two distinct matters. One has nothing to do with the other

"One further remark remains, and that is, the exceptional character of the legislation proposed. The Hon'ble Mr. Nolan has pointed out—and I think it is the very best possible answer to give—that if section 96 is to be amended in this way, section 94 should also be amended. The general commercial interests under section 94 are not represented; but though they are not represented, as no claim is advanced, you are bound to give those who will be affected under section 94 compensation in the same way as is proposed under section 96. We have a small conclave of jetty-owners coming forward who have been described as the possessors of property of enormous value on the banks of the river, and we have been called upon to pass this exceptional legislation to meet a clamour which has been raised. That is a matter to which I do not think we should yield."

The Hon'ble Dr Rash Behary Ghose said:—"I accept, without the slightest reservation, the principle which underlies the amendment of the hon'ble member in charge of the Bill, the right to claim compensation being, as I understand, confined to cases in which the works mentioned in the amendment have been lawfully erected, or have been used for a very long time. It has been said that if the principle is sound, it ought to hold good also in the cases provided for by section 94 of the Bill: that may be so But that is no answer to the amendment which has been proposed by the Hon'ble Sir Henry Harrison, because, I take it that two wrongs cannot make a right. It may be a perfectly good reason for adding a similar amendment to section 94; but surely, it is no reason whatever for saying that, although in other respects the principle is a good and proper one, it ought not to be accepted because you have not applied

it to a certain class of cases to which, if the principle is a proper principle, it ought to apply?

"The Hon'ble Mr. Allen, who spoke in opposition to the amendment, pointed out in the first place that a provision similar to that contained in section 96 had been in the Statute Book since the year 1866, and that nobody ever thought of making any complaint till the Hon'ble Mr. Moore, or rather the Chamber of Commerce whom he represents, thought of objecting for the first time when the present Bill was before the Select Committee. The whole contention, if I may say so, is, that the injustice was perpetrated long ago, and that therefore it should be left unredressed. But if the principle recognised by the amendment is a proper one, I do not think that the mere fact, that the wrong has been in existence for thirty or for fifty years can invest it with the privilege of prescription. The Legislature is not fettered by any statute of limitations.

"I will assume for the purposes of my present argument that, the principle of allowing compensation is a proper principle. If it is not, there is an end of the question. But assuming that it is a proper principle, are we to refrain from applying it, because it is going to be applied for the first time in 1890? Wrongs do not cease to be wrongs, simply because they are ancient wrongs. I would on this point only refer the Hon'ble Mr. Allen to that well-known work, Guilliver's Travels, from which he borrowed his allusion of extracting sunbeams from cucumbers. I confess I am not much pressed by the argument that, we should be doing a wrong to the debenture-holders, if we accepted the principle of giving compensation for injuries done to private persons. I think that the owners of private wharves have their rights, which ought to be protected at any rate to the same extent as those of the debenture-holders. And we cannot overlook the rights of these owners out of tenderness for the interests of the debenture-holders holders of merely floating securities as they are very properly called) who, we are told, invested their money on the faith of a tacit pledge that our statutes, like the laws of the Medes and Persians, are to remain unchanged throughout all time.

"Then, it is said that the Kidderpore Docks are likely to prove a white elephant. Many people, I think, besides the Hon'ble Mr. Allen, are of that opinion. [Mr. Allen:—"I did not say that, that is my opinion. I said that, many people held that opinion."] Then I beg the hon'ble member's pardon. However, it has been said by a great many people that the new docks are likely to prove a white elephant. If such should unfortunately be the case, I do not see any reason why the owners of private wharves are to be singled out for the honour of feeding that rather expensive animal. I am not aware, nor has it been suggested, that there is any provision in any Act now in force, which renders it absolutely unlawful for private individuals to have wharves for any of the purposes mentioned in section 96; and, as I have already said, it is only when a thing has been erected lawfully or is being used for a lawful purpose, that we propose to give compensation.

"But while agreeing with the Hon'ble Sir Henry Harrison as to the principle, I am unable to agree with him as to the measure of compensation which should be allowed in such cases. It has already been pointed out very forcibly by the Hon'ble Sir Charles Paul that, when you render a particular use of a particular building or work unlawful, you do not destroy the thing itself; and that the measure of compensation applicable in the one case, cannot be properly applied in the other case.

"It has also been pointed out that, if the section is allowed to stand as it is, it must open a very wide door to all manner of claims being set up, of which some notion may be gathered from a perusal of compensation cases; and their name is legion, which appear in the English Law Reports. When owners fancy that their private rights are invaded or are unlawfully affected, they are seldom moderate in their demands. I have no reason to believe that the Indian claimant will be entirely free from this failing, which may not improperly be regarded as one of those touches of nature which make the whole world kin.

"The learned Advocate-General has suggested one way out of the difficulty. I venture to suggest another, which I think is likely, at least in my humble judgment, to meet the justice of the case. And what I propose is, that the last part of the section should run thus: 'shall entitle the owner thereof to sue for compensation for any depreciation in the value of such works in any case in which he would have been entitled to sue for and recover, &c.'

"This will have the effect of laying down a sufficiently definite rule, instead of the somewhat vague and indefinite measure of compensation allowed by the Hon'ble Sir Henry Harrison's amendment. It may be said that, we accepted that indefinite standard of compensation when we passed, on the last occasion, the amendment made to section 85. But, as has been already pointed out, the two cases are not precisely the same, nor are they even similar, and I think there can be no harm in laying down a different measure of compensation in cases in which you are only prohibited from putting your property to a particular use, from that which is applicable to cases in which the whole structure is absolutely destroyed.

"My objection, therefore, as I have already said, is not to the principle of the amendment, but only to the measure and extent of compensation to be conceded."

The Hon'ble SIR HENRY HARRISON said in reply:—"I have no wish to underrate the objections raised by the Hon'ble Sir Charles Paul and the Hon'ble Mr. Allen, but those objections are indefinitely weakened by the consideration that they do not, as the Hon'ble Dr. Rash Behary Ghose does, suggest any alternative course. Therefore, they must clearly be understood as willing to pass section 96 in its present form, and, if so, no objection raised by them can, for a moment, bear comparison with the weight of the objection to letting that section stand unamended. As the Hon'ble Mr. Nolan stated correctly at the last meeting, the section corresponding to section 85 in the old Act has never been used; whereas the section corresponding to section 96 has been used on many occasions in a manner which I and the Port Commissioners are quite prepared to admit has been harsh, if not more than harsh. Whenever the Commissioners have wished to get rid of a private wharf or jetty, what they have done is, not to remove or destroy it, but to open a wharf or jetty of their own in the neighbourhood; and then to say that the private wharf or jetty shall no longer be used.

"Therefore, it comes to this that, we have spent weeks of preparation and hours of discussion in altering the earlier section, which is practically of little importance, and then when we come to the section which is the real *fons et origo mali*, the retention of which would make the earlier amendment absolutely useless, we are to fold our hands and say *non possumus*. I must, speaking for myself, say that this would be playing with the remonstrances of the Chamber of Commerce. I do not think that, on careful reflection, the objections would prove nearly so strong as the Hon'ble Sir Charles Paul and the Hon'ble Mr. Allen represent, and I am not at all prepared to abandon the principle of my amendment; but still it is desirable, in the light of this day's discussion, to examine its wording carefully and see if it can be safeguarded.

"The Hon'ble Mr. Moore authorises me to say that he does not press for compensation for prospective tolls, and, if so, all those who accept the principle are substantially in accord. I therefore suggest that, instead of coming to any immediate vote, which will leave no option except to leave the section unaltered, or to accept the amendment *verbatim* as it stands, section 96 may be referred back to the Select Committee for further consideration."

HIS HONOUR THE PRESIDENT said:—"Before putting either question to the vote, I think it is worth while just to sum up to a certain extent what seems to me to be the various views now before the Council. In the first place, the hon'ble member in charge of the Bill, who is also a member of the Port Commission, considers that section 96, as it stands, is not sufficient without some provision, for giving compensation on the same lines as that which is urged vehemently by the Chamber of Commerce and by the hon'ble member who, in this Council, represents their interests. Consequently, you have the member in charge of the Bill and the Port Commissioners' interests and the interests of the Chamber of Commerce, all at one upon this point.

"Then, when you come to debate the question, it seems to me at least—and I should have said so, until the Hon'ble the Advocate-General made his last remark—that there was a general concensus of opinion that something in the shape of compensation was necessary, or at all events was equitable. It might be, as I understood the Hon'ble the Advocate General to say, merely paying compensation for the actual value of material wasted, or for the actual value of the jetty, or of the erection. There are others who think there are some larger claims; but I am bound to say that the concurrence of legal opinion is so strong

against the clause as proposed by my hon'ble friend to the left that, if that clause had to be put before the Council, I should have found myself obliged to vote against it.

"But there seems to me to be a concensus of opinion that something in the nature of compensation ought to be given, and it is also agreed that it should exclude any compensation for the future payment of fees which owners have not had to pay in the past, owing to the fact that they have been able to use their own jetties. Well, that brings us to a certain point in coming to an understanding: it clears the ground to some extent

"The Hon'ble Dr. Rash Behary Ghose has been good enough to offer a suggestion which he thinks might meet the case; but that, unfortunately, has come at the end of the debate, and it does not seem to me that there is any opportunity now of taking the opinion of the Council on a question of that kind, without a little further consideration.

"I do not quite like the idea of referring a single section back to the Select Committee; because, if you refer this section back to the Select Committee, I do not see how you can exclude section 94, and that opens up rather a large field. I think I should prefer myself, instead of referring it back to the Select Committee, to adjourn the Council for one week for the consideration of the clause as suggested by the Hon'ble Dr. Rash Behary Ghose. That could be brought forward next week, or, possibly, some adaptation of it might be likely to meet the wishes of both parties. But if there is no better method—if I find nothing like an agreement is possible—I will adopt the view of the hon'ble the mover of the Bill, namely, to refer the Bill back to the Select Committee. It seems clear that you cannot pass the Bill to-day with this difference of opinion about it."

The further consideration of the section was postponed till the next sitting of the Council.

The Council adjourned to Saturday, the 1st March, 1890.

C. H. REILY,

Assistant Secretary to the Govt. of Bengal,
Legislative Department.

CALCUTTA;
The 27th February, 1890.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

No. 884R.C.

Calcutta, the 26th February 1890.

READ—

Letter from the Accountant-General, Bengal, No. 599L.F., dated the 6th February 1890, submitting an abstract of the receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 30th September 1889.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees for the second quarter of the year 1889-90 be published in the *Calcutta Gazette*, and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong, and Chota Nagpore Divisions; to the Superintending Engineers of the Eastern and Western Circles; and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal,
P. W. Dept.

DISTRICT

Statement of Receipts and Expenditure of the several District Road

RECE

	Districts.	Balance in treasury on 1st July 1889.	Provincial rates.					Interest on arrears of road cess.	Public Works.			Irrigation	Miscel	
			Cess on lands.	Cess on mines.	One per cent. road cess.	Cess on houses.	Total.		Road tolls.	Ferry tolls.	Total.	Canal tolls.	Rent of serais and staging-bungalows.	Fees, fines and forfeitures
Cess Districts.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs	Rs.	Rs. A. P.	Rs. A. P.
	Darjeeling ...	6,451 10 4	1,809 7 1	31 7 5	.....	.....	1,840 14 6	.....	.....	.....	.....	.....	.....	.....
	Hazaribagh ...	23,934 11 2	1,780 6 11	11 3 6	.....	.....	1,791 10 5	80 10 3	.....	.....	.....	.....	31 4 0	599 3 0
	Lohardugga ...	22,449 4 9	637 3 11	.....	.....	.....	637 3 11	20 5 5	.....	.....	.....	.....	27 8 0	213 14 0
	Manbhoom ...	19,924 12 10	2,824 4 11	555 10 1	.....	.....	3,379 15 0	103 3 9	.....	.....	.....	.....	576 14 3	.....
	Total ...	77,752 6 6	7,051 3 10	598 5 0	.....	.....	7,649 11 10	204 3 3	.....	.....	.....	.....	635 10 3	812 1 0
Non Cess Districts.	Chittagong Hill Tracts ...	7,479 3 5	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Sonthal Pergunnahs	47,128 1 0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	92 4 0	.....
	Singbhoom ...	15,696 1 9	.....	12 1 0	.....	.....	12 1 0	.....	.....	.....	.....	.....	6 9 0	.....
	Total ...	70,703 6 2	...	12 1 0	.....	.....	12 1 0	.....	.....	.....	.....	.....	98 4 0	.....
	Grand Total ...	1,48,455 13 8	7,051 3 10	610 6 0	.....	.....	7,661 12 10	204 3 3	.....	.....	.....	.....	733 14 3	812 1 0

EXPEN

	Districts.	Refunds.			Provincial rates	Administration.			Stationery.	Pub lic				
		Cess.	Other receipts.	Total.	Establishment and contingencies of office of collection.	Establishment and contingencies of Committee's office.	Percentage cost of establishment for office of account and control.	Total.	Stationery and printing.	Original works.	Repairs.	Establishment.	Tools and plant.	Toll and ferry establishments and contingencies
Cess Districts		Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
	Darjeeling ...	.....	.....	.....	353 9 1	385 13 6	.....	385 13 6	.....	363 11 0	783 6 1	1,281 13 0	.....	...
	Hazaribagh ...	.....	.....	.....	2,003 13 8	378 8 4	.....	378 8 4	202 1 7	389 9 8	11,636 9 2	2,613 8 0	1,705 14 9	...
	Lohardugga ...	.....	.....	.....	2,507 0 5	143 1 1	.....	143 1 1	278 4 6	151 13 4	9,387 6 1	2,858 2 10	39 4 0	...
	Manbhoom ...	7 6 6	.....	7 6 6	474 13 0	501 11 6	.....	501 11 6	10 3 9	1,548 12 0	11,825 10 1	2,123 6 8	303 4 0	...
	Total ...	7 6 6		7 6 6	5,698 3 8	1,409 2 5	.....	1,409 2 5	490 9 10	2,451 14 0	33,632 18 5	8,896 14 6	2,128 6 9	...
Non-cess Districts.	Chittagong Hill Tracts ...	.....	.....	.....	.. .	.....	.....	.....	.....	1,071 13 3	441 0 0	1,186 8 8	.....	..
	Sonthal Pergunnahs	..	... ..		.. ...	350 7 0	... .	350 7 0	.....	.....	10,024 13 6	2,230 9 3	105 0 3	...
	Singbhoom ...	..	.....	.....	..	170 3 9	.....	170 3 9	28 10 0	595 7 3	3,701 7 9	803 1 7	64 0 0	...
	Total ...	.....	. ..	.....	.....	520 10 9	.....	520 10 9	28 10 0	1,667 4 6	14,167 5 3	4,270 3 3	169 0 3	...
	Grand Total ..	7 6 6	.....	7 6 6	5,698 3 8	1,929 13 2	.....	1,929 13 2	519 3 10	4,119 2 6	47,800 4 8	13,097 1 9	2,297 7 0	...

Fort William,

The 23rd January 1890.

ROAD FUND.

Committees for the Second Quarter of the Year 1889-90, *ending* 30*th September* 1889.

IPTS.

ANEOUS.			SUSPENSE ACCOUNT.				Balance of imprest in hands of Engineers and others, decreased.	Balance of unrushed cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 30th September 1889.
Miscellaneous.	Total.	Grant from Government.	Advance.	Deposit.	Total.	Total receipts.					
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
67 7 6	67 7 6	177 4 0	655 0 0	.....	655 0 0	2,740 10 0	.....	523 8 2	3,730 12 6	4,887 11 8	4,884 0 10
3 3 0	683 10 0	513 0 2	2,416 7 8	.....	2,416 7 8	5,488 6 6	.....	.....	34,412 1 8	21,782 8 6	12,629 9 2
9 11 9	289 1 9	440 0 0	444 3 10	765 0 0	1,209 3 10	2,888 14 11	.....	90 15 1	25,107 2 2	17,848 10 7	7,258 7 7
13 3 11	590 7 2	250 0 0	390 1 5	150 0 0	540 1 5	4,803 11 4	6 5 6	.....	24,794 13 8	17,978 9 7	6,816 4 1
93 15 2	1,591 10 5	1,'90 4 2	3,905 12 11	915 0 0	4,820 12 11	15,036 10 9	6 5 6	619 7 3	96,034 14 0	62,447 6 4	31,587 5 8
.....	..	.....	1,000 0 0	.....	1,000 0 0	1,900 0 0		..	8,479 3 5	3,391 5 8	4,987 13 9
99 9 0	191 13 0	.....	1,282 14 0	50 0 0	1,332 14 0	1,821 11 0	540 6 6	128 10 0	49,721 12 6	16,5:5 13 0	33,195 15 6
....	6 0 0	.....	488 0 0	.....	488 0 0	806 1 0	...	.....	16,202 8 9	5,662 5 7	10,539 13 2
99 9 0	197 13 0	....	2,770 14 0	50 0 0	2,820 14 0	3,528 12 0	540 6 6	128 10 0	74,403 2 8	25,579 8 3	48,723 10 5
193 8 2	1,789 7 5	1,390 4 2	6,676 10 11	965 0 0	7,641 10 11	18,687 6 9	546 12 0	748 1 3	1,66,438 0 8	88,127 0 7	80,311 0 1

DITURE.

ORKS.		IRRIGATION.	MISCELLANEOUS.				Contribution to Provincial Government.	SUSPENSE ACCOUNT.			Total expenditure.	Balance of imprest in hands of Engineers and others, increased.	Balance of unrushed cheques, decreased.	Total outlay.
Establishment of Divisional superintendent of Works.	Total.	Canal toll establishment and contingencies.	Staging-bungalow establishment and contingencies.	Staging-bungalow, petty construction and repairs.	Miscellaneous.	Total.		Advances.	Deposits.	Total.				
Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.
.....	2,876 14 1	.....	.....	.....	.....	.....	..	1,719 7 0	.....	1,719 7 0	4,887 11 8	.....	.....	4,887 11 8
.....	16,435 9 7	.. ..	27 0 0	1 1 0	.....	28 1 0	...	2,510 3 3	.....	2,510 3 3	21,617 5 7	.....	165 2 11	21,782 8 6
.....	12,426 10 3	.....	54 8 0	23 12 4	23 6 0	106 14 4	...	542 0 0	1,245 0 0	2,087 0 0	17,848 10 7	.....	.....	17,848 10 7
.....	15,799 0 9	.....	43 12 9	276 9 10	.....	320 6 7	.	415 0 0	450 0 0	865 0 0	17,978 9 7	.....	.....	17,978 9 7
.....	47,040 2 8	.....	125 4 9	301 7 2	23 6 0	455 1 11	.	5,486 10 3	1,695 0 0	7,181 10 3	62,282 5 8	..	165 2 11	62,447 8 4
... .	2,699 5 8	.... .	.....	.....	.....	.....	...	.....	737 0 0	737 0 0	3,436 5 8	.....	155 0 0	3,591 5 8
..	12,350 7 0	... ..	118 1 0	.....	1,000 0 0	1,118 1 0	...	2,706 14 0	.....	2,706 14 0	16,528 13 0	.....	.....	16,528 13 0
.....	5,224 0 7	.....	80 10 3	.....	58 13 9	139 7 3	..	.....	.....	.....	5,563 5 7	.....	.....	5,563 5 7
.....	20,273 13 3	.....	198 11 3	.....	1,058 13 9	1,257 8 3	.	2,706 14 0	737 0 0	3,443 14 0	25,324 8 3	.....	155 0 0	25,479 8 3
	67,313 15 11	... ..	324 0 0	301 7 2	1,087 3 8	1,712 10 2	.	8,193 8 3	2,432 0 0	10,625 8 3	87,806 13 9	.....	320 2 11	88,127 0 7

E T. ATKINSON,

Accountant-General, Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE OPIUM DEPARTMENT DURING THE YEAR 1888-89.

REVENUE DEPARTMENT—MIS. REVENUE.

Calcutta, the 25th February, 1890

RESOLUTION.

READ—

Report on the administration of the Opium Department during the year 1888-89.

The Board's annual account of the administration of the Opium Department formerly included little beyond observations on the several reports submitted by the two Opium Agents. In 1877-78 it took a more comprehensive form, the results of the operations generally being brought together; and this year a further improvement has been effected by combining also the maps by which the reports are accompanied. In order to render the review complete, it remains only to add an account of the Board's own action during the year in the direction of inspection or control, and of the facts specially within their knowledge, such as the result of sales and the condition of stocks. This information should be given in future, unless some special objection can be indicated to so doing. The Government of India has already directed that the future reports shall include a review of expenditure.

2. Owing to the bumper crops of the years immediately preceding, and the consequent accumulation of a large stock, it was necessary to issue orders for the restriction of cultivation during the year 1888-89, so as to yield a comparatively small outturn. The character of the season itself contributed to produce the desired result. In both Agencies it opened well, and strict compliance with the orders of Government as to limiting production may at first have appeared a somewhat difficult task. But the heavy showers and the hailstorms of February swamped the tender plants, while damp and cloudy weather materially checked their growth, and the high temperature and strong winds which prevailed most inopportunely in the early part of the month of March, immediately after the collection of the juice had commenced, scorched and very injuriously affected the secreting powers of the capsules. In consequence, there was a serious falling off in the average produce per bigha, amounting in the case of Behar to as much as 2 seers 3¼ chittacks, and in that of Benares to 1 seer 13 chittacks. At the same time the settlements were carefully restricted, the action taken with this object by the Benares Agent in particular being systematic and well-considered. The area engaged for in the two Agencies was 139,641 bighas short of that of the preceding year, and the eventual result of this curtailment, taken with the diminished yield per acre, was the manufacture of only 38,305 chests of opium for export by sea, as against 69,500 chests during 1887-88. There was an increase in the cost per chest, but this was to be expected from a short outturn, which necessarily leads to a higher average. Several advantages accruing to the change in policy involved in the issue of orders limiting production are apparent, and not the least is the opportunity it has afforded for redistributing the establishments employed in abandoned tracts, and so strengthening in other and more profitable quarters a staff which was sanctioned years ago, and has had to bear the strain caused by a hitherto steady increase in the extent of operations The reduction has also rendered possible other improvements, and it is observed with satisfaction that an attempt has been made in the Benares Agency to render more thorough and effective the supervision of cultivation by requiring that each license shall contain the khasra number of the land to which it relates; while in Behar the system of granting a separate license to each cultivator and taking from him a separate receipt has been introduced successfully, and is said to maintain the influence of the khattadar without sacrificing the individual responsibility of the ryot. Another probable result of the exercise of discrimination in the selection both of land and of cultivators, is a distinct advance in the quality of the drug. At Ghazipore the opium produced was unusually free from pussewah and other impurities, and of exceptionally high consistence; so much so that, for the first time on record, the

season's deliveries were so high that none could be manufactured at the Agency standard of 70 per cent.; while the quality and consistence in the case of Behar are declared to have been too high, and to have necessitated an inconvenient increase in the caking consistence of over 300,000 cakes.

3. The evidence adduced in this year's report of the popularity of the system under which opium is cultivated is both striking and valuable. Mr. Tytler, though he took special measures to prevent land being sown in excess of engagements, had to measure and admit 1,500 bighas more than he had given advances for. Mr. Rivett-Carnac, in his able report, observes in regard to the Benares Agency—

"As settlements progressed, numerous appeals came in from all sides of the Agency against the policy of reduction that was being carried out: men found their way from distant parts of the provinces to Ghazipur and submitted their petitions in person to the Agent, and it was evident that the cultivation had taken a strong hold on the people, as even small reductions were strongly objected to. It must here be remarked that the poppy cultivation seems at the present time to be most popular in Oudh, though it is no exaggeration to describe it as such, with rare exceptions, all over the North-West Provinces. From the Agent's orders petitions were submitted to the Board, and then on to Government, whilst some cultivators went even so far as to petition Her Majesty the Queen-Empress against the reduction of cultivation in the districts."

4. In the Benares Agency only 5,349 bighas were unirrigated out of a total cultivation of 329,918; and in Behar, notwithstanding the feeling against the Sone canal water, the existence of which is still noticed, there was a considerable advance in this respect, and 325,130 out of 405,866 bighas were under irrigation last season. The sums advanced in the latter Agency during the year for the construction and repair of wells were largely in excess of those of 1887-88, but in Benares there was a falling off to the extent of Rs. 9,319-15-7. Mr. Rivett-Carnac has explained that this was another effect of the concentration and confinement of the cultivation to tracts where the poppy has always flourished, and where there is in consequence less need for help from the Department in any form.

5. Owing to the poor outturn and the extensive failures of the year, the outstanding balances were heavy and their incidence almost universal. The considerate policy inculcated by Government in connection with the recovery of these was duly observed, but, nevertheless, the realizations in Behar were complete, except in the solitary district of Monghyr, with reference to which a special enquiry is clearly called for, as it did not fall within the area affected during the recent distress. In the Benares Agency it is sufficiently satisfactory in all the circumstances that out of a balance of Rs. 11,65,493-14-3 the amount that now remains unadjusted is Rs. 4,945-7-6 only.

6. As regards breaches of the opium laws, there was an insignificant increase in the number of cases instituted, and the percentage of convictions was unusually high for both Agencies. The rule requiring Opium Officers to be consulted prior to the institution of such prosecutions is again favourably reported upon. The rewards disbursed to informers and apprehenders amounted in Bengal to Rs. 12,978-12-6, and in the North-Western Provinces and Oudh to Rs. 5,302-9-1, as against Rs. 10,607-4-7 and Rs. 5,243-7-1 respectively paid during 1887-88. No heavy smuggling cases were reported, but a few comparatively important seizures were made. The Benares Agent considers that there is good reason to suspect that an organization exists for the smuggling of opium on a large scale into the Punjab, either from Nepal or from British territories, and he is in communication with the Financial Commissioner of that province on the subject. The Behar Agent, on the other hand, inclines to believe that the traffic with Nepal is exaggerated, and he remarks that nearly every large lot of illicit opium detected is said to have come from that quarter, an assertion easily made, not readily disproved, and too eagerly accepted by Opium officials, who naturally are unwilling to allow that the contraband article in any quantity can be collected from the cultivators licensed and supervised by them. The subject is one which requires special attention. As to the existence of extensive smuggling from Nepal, there can be no doubt, many uncleared cases having been actually detected, one of which occurred this year in the Benares Agency. But it may very well be that, as suspected by Mr. Kemble, the results of illicit transactions by the opium cultivators themselves are often attributed to foreign agency.

7. The thanks of the Lieutenant-Governor are due to the Board and both Agents for their careful supervision of the Department during the period under review. The Lieutenant-Governor also notices with pleasure the favourable mention made by the Board of the services of the following officers.

Sub-Deputy Opium Agents.

Messrs. W. Masters, R. Drake, A. G. Tytler, W. D. Ridsdale, A. F. Mackenzie, C. Paterson and A. C. Bryson.

Assistant Sub-Deputy Opium Agents.

Messrs. J. E. Hand, G. M. Gregory, H. Blair, A. W. Osborne, W. T. Ryves, C. A. C. Gennoe, G. Nicholson, A. B. Kennedy, G. Levett Yeats, H. D'Oyly, and Baboo Jugadish Chandra Ray.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

EXCISE ADMINISTRATION.

RESOLUTION.

ORDERED that the following selection from papers relating to Excise Administration be published for general information in the *Calcutta Gazette.*

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Offg Secy. to the Govt. of Bengal.

No. 55, dated 19th February 1889.

From—The Government of India,
To—The Secretary of State for India.

In our Despatch No. 213, dated 11th August 1888, we undertook to furnish Your Lordship with information regarding the nature of the outstill systems as administered in the several Provinces of India and the extent to which they are in operation in each case. This information was called for from Local Governments, and has now been received. We propose in the following paragraphs to summarize its substance, supplementing it where necessary from the Excise administration reports.

2. In the Madras Presidency there are certain scattered tracts in which the distillation of spirit from toddy is a process both simple and inexpensive. Illicit distillation in these tracts can only be suppressed either by the employment of a very large preventive service or by the establishment of a system of outstills. To the first of these measures there are obvious objections, and, under the conditions that exist, it could not be made effective. The second has therefore been adopted, but precautions are taken to prevent excess in production and consumption. The strength of the liquor issued is prescribed; the minimum retail price of it is fixed; while the stills and places of sale are as few as the conditions of the case permit. The system, so guarded, is in force over a gross area of 17,324 square miles, or less than one-eighth part of the whole Presidency.

3. Although the area under the outstill system is small in Madras, it is even smaller in Bombay. Central distilleries supply the whole Presidency, with the exception of three isolated tracts covering a gross area of about 7,500 square miles. In these a limited and guarded system of outstills is maintained, partly on account of the rugged nature of the country and the migratory habits of a scattered population, partly on account of the facilities for illegal domestic distillation from toddy and mowha flowers, and partly because of the ease with which cheap liquor can be smuggled in from neighbouring Native States. British and Native territory is much interlaced in this Province, and from this cause serious difficulties were formerly experienced in excise administration. To a great extent these difficulties have now been overcome by arrangements under which the excise administration of the States concerned is controlled by the Bombay Government. These arrangements have made it possible to maintain the central distillery system in what is practically universal use. Even in Sind, which up to 1887 was managed on a system of farming, the central distillery plan has now been adopted throughout.

4. In the Punjab, which adjoins Sind, there is practically no outstill system at all. Outstills are allowed in two tahsils of the mountainous district of Kangra; but their capacity is regulated, and in 1887-88 their whole outturn was less than 3,000 gallons, which is equivalent to a consumption of one bottle of proof spirit per head in fourteen years in the first tahsil, and in twenty-nine

years in the second. In all other parts of the Province the central distillery system is in force.

5. In Lower Burma the consumption of spirit made after Native methods is very small, and only yielded a revenue of ₹1,16,483 in 1887-88. This small consumption is distributed over a very large area; 49 stills, scattered over districts so distant as Arakan, Pegu, and Tennasserim, participate in the production. The difficulties of transport are so great and the physical features of the country so unfavourable to the maintenance of a direct supervision over manufacture that it does not seem probable that production can be successfully concentrated. The District Officers have unanimously reported that it cannot, though it will be observed that the Financial Commissioner is disposed to recommend that the experiment should be tried. The outstill licenses, which convey the right to manufacture and sell country spirits, are sold by auction annually. The District Officer fixes the number of days a week, or a month, on which the still may be worked. The spirit is made from either cane or toddy sugar.

6. In the North-Western Provinces and Oudh a considerable area, namely, 36,824 square miles, with a population of nine millions out of a total area of 106,111 square miles and a population of forty-four millions for the Province, is administered under the farming or outstill system. "Farming" is merely an expanded outstill system. In the tracts where it has been introduced, the licensee secures the right of making and selling liquor within the limits of the "farmed" area, including control over a large number of outstills and a monopoly of the liquor traffic. Under both systems the Government prescribes the number of stills and shops and has laid down rules which require the limitation of the capacity of the stills. It seems, however, that this last condition has not been enforced. As we have not yet received the report of the Local Government, we are not aware of what view they take of the omission, or of the question whether the outstill area might not be further restricted and the conditions of the licenses made more severe. It appears from the letter from the Board of Revenue, forwarded by that Government, that reform in this direction is likely to be undertaken, and if we do not receive satisfactory explanations we shall take care that the matter is not lost sight of. The revenue derived from the outstill system in 1887-88 is stated at about ₹6,00,000 or less than one-sixth of the total revenue from excise on country spirits in these Provinces.

7. In the Provinces referred to in the preceding paragraphs, resort has been had to the outstill system either to only a comparatively small extent, or under exceptional circumstances. It is, however, the prevailing system in Bengal, the Central Provinces, Assam, and the Hyderabad Assigned Districts. In all these Provinces the number of shops is regulated by the Government, and in Bengal, the Central Provinces and part of Assam, further restrictions, to which we shall presently refer, are imposed with a view to limit production.

8. In Bengal the outstill license permits the manufacture and sale of country spirit, the produce of a single still, at a fixed place. No separate duty is charged, but an upset fee is fixed which is calculated on the approximately ascertained local demand or consumption of the shop, multiplied by half the rate of duty fixed for country spirit for the district. The license is put up to auction and sold to the highest bidder above the upset fee. The size and capacity of the still, and the number and capacity of vats in which the yeast for distillation is prepared, are regulated by the local demand on which the upset fee has been calculated. No outstill is allowed within a certain distance outside the area appropriated to a central distillery. In districts where the dual system, distillery and outstill, is in force, a minimum retail price per bottle of liquor, both for distillery and outstill shops, has been fixed. Precautions are taken to prevent as much as possible the smuggling of outstill liquor into distillery areas. The facilities for this smuggling are so great and various, and the means of detection so small, that the only hope of effectually stopping it is by forcing the price of outstill liquor, at all events in the neighbourhood of distilleries, to the level of that of distillery liquor. Measures to secure this are being gradually introduced, the cost of production in outstills has been increased by strictly limiting the capacities of the stills, and by insisting on the payment of license fees proportioned to their possible outturn as ascertained on the most approved methods. The outstill revenue was ₹31,91,334 out of a total revenue from

country spirits in 1887-88 of R52,05,122, or 61 per cent. There were 3,535 outstill shops out of a total number of 4,105 retail places of sale.

9. The consumption of the greater portion of the Central Provinces is supplied from contract stills or outstills. Contract stills are built and maintained by Government, and can only be worked at places where daily supervision by Government officials or by the Police can be secured. Control is secured by taking a daily fee for each still in use (roughly proportioned to the number of *sers* of mowha with which the still can be charged) and by seeing that only those boilers are used in respect of which the day's fee has been paid. The taxation of production at these stills is thus completely regulated, and the system does not differ in principle from that of centralised manufacture. They are said to be more easy and less expensive to manage than central distilleries. At outstills, there are no restrictions upon the manufacture other than those imposed by the limitation of the number of licensed shops to be supplied, and of the size of the vessel used in distillation. Outstills supply the demand of rural tracts and are erected by the distillers at their own expense on sanctioned sites, and receive only occasional inspection. In 1887-88 there were 118 contract stills and 1,683 outstills supplying an area of 44,000 square miles, and the outstill revenue was R3,96,375 out of a total revenue from taxation of country spirit of R13,99,631, or 28 per cent. The physical nature of the outlying districts of the Central Provinces and the great length of the frontier which marches with Native territory render the extensive adoption of the outstill system inevitable.

10. In Assam also, the control is less severe than in Bengal, and the maintenance of the system as administered is only justifiable as a consequence of the physical character of the country, the great facilities for illicit production, the difficulties of transport, the size of the districts, and their sparse population. The sites of the shops are settled by the District Officer subject to the approval of the Commissioner, and the right of preparing and selling country spirits at them is sold annually by auction. One still is allowed to each shop; but where a purchaser is the licensee of more than one shop, he may work in one shop as many stills as he has shops. The capacity of the stills, and the hours within which they may be worked, are defined in the license. We propose to invite the Chief Commissioner's attention to the desirability of attempting to introduce some of the further safeguards insisted on in Bengal and Madras.

11. In the Hyderabad Assigned Districts the farming system is in force. It is described in the Administration Report in the following terms :—

"The system of administration in the Hyderabad Assigned Districts of the excise revenue is what is called the farming system, whereby the monopoly of vend within a given area is put up to auction and is disposed of to the highest bidder. The number of retail shops for country spirits is limited to what is considered the requirements of the people, and the contractors are on no account allowed, without the special sanction of the Deputy Commissioner, to increase the number. The object of this restriction is to obtain the highest amount of revenue distributed among the smallest number of places of vend, or, in other words, to heighten the price of liquor, as far as possible, without increasing facilities for obtaining it. The population per retail liquor-shop is 1,109. The only spirit manufactured in Berar is that distilled from mowha, and mowha trees abound in the province."

12. Your Lordship will observe that, except in Bengal and Berar, the conditions which the several Local Governments consider necessary to justify the introduction of the outstill system into any locality are, sparseness of population, difficulty of transport, want of proper means of communication, and physical features unfavourable to the working of a centralised system. There is no room for doubt that in localities where these conditions exist the outstill system is the most suitable yet devised for taxing consumption. The question whether it can be satisfactorily worked under the conditions which prevail in a large portion of Bengal, is one which is at present engaging the anxious attention of the Local Government, and Your Lordship will find, in the enclosures to our Despatch No. 22, dated 22nd January, valuable information regarding excise administration in that Province. The Bengal Excise Commission of 1884 advised that the regulation of outstills was quite possible under safeguards intelligently devised and energetically applied. It is obvious that there is not *necessarily* any difference of principle between the system which taxes consumption by a duty on the quantity of liquor passed out of a guarded enclosure and that

which adjusts the duty to the producing capacity of a still without placing the latter under constant and direct supervision. If it is possible in practice either to enforce a limitation of production and impose duty accordingly, or to adjust the duty to the full producing capacity of the still, there can be no advantage in superseding outstills by central distilleries. Under such conditions every gallon of spirit would pay full duty, liquor could not be unduly cheapened at the cost of the revenue, and obviously the cause of temperance could not suffer. If again the restrictions on consumption be alone regarded, the device of fixing a minimum price on the sale of all outstill-made liquor will be effective if it can be enforced. There was some hesitation at first in Bengal in accepting this device as a possible solution. The experiment was, however, made in those districts where the dual system of central distilleries and outstills exists, mainly with the view of checking competition between distillery and outstill liquor. So far as information has been received, there is reason to be satisfied with the result, and it is understood that the Bengal Government contemplate fixing minimum prices in all districts. The same condition is enforced by the Government of Bombay in the case of the outstills in the Ratnagiri and North Kanara Districts. The Excise system in Bengal must, however, be still considered as in an experimental stage, and we have, as reported in our Despatch No. 23 of the 22nd January, requested the opinion of the Lieutenant-Governor on the question whether, instead of being given a more extended trial, the outsill system should be generally abolished.

13. In considering the propriety of superseding the outstill system in Bengal, it is necessary to recollect that the only immediate alternative is the sudder distillery of Northern India, which is simply a guarded enclosure containing a number of native stills. There are, however, difficulties in the way of the general introduction of sudder distilleries unless extensive changes in the ordinary processes of manufacture are introduced. The spirit made in the native method is far from pure and, when manufactured from the flower of the mowha tree (*bassia latifolia*), which is the chief material used in Bengal, the Central Provinces, and the North Western Provinces and Oudh, will not bear transport, and rapidly deteriorates. Such spirit must, therefore, be manufactured near the place where it is consumed, and this necessitates the maintenance of a large number of distilleries in districts where the sudder distillery system is in force; for instance, in the Central Provinces, it is calculated that one of these distilleries supplies only the country within ten or twelve miles. It should, however, be borne in mind that in Madras and Bombay the introduction of European apparatus and methods has resulted in the production of country spirit of a class which will endure transport over long distances, and which does not deteriorate when kept. Moreover, the preventive establishments in those Provinces are efficient, and it has consequently been found possible to concentrate the manufacture, with the result that the number of central distilleries is in striking contrast with the number in Northern India. Thus in Bengal, the number of central distilleries in 1869 was 257, and in 1878, the year preceding the revival of the outstill system, 211; in the Punjab there are at present 65; while in Madras, in 1887-88, two-thirds of the whole Province was supplied from only 19. The difficulties attending the establishment of an effective preventive agency are perhaps not likely to be as successfully overcome in Bengal as they appear to have been in the two Southern Presidencies. But it should certainly be kept in view that the only satisfactory solution of the difficulties attending the central distillery system, if the decision to suppress outstills is taken, seems to lie in the adoption of either the Madras or Bombay method, and in the introduction of a radical change into the customary processes of local manufacture. The Bengal Excise Commission, however, advised in 1884 against the adoption of European methods of production in Bengal, and their views receive some confirmation from the fact that one of the two distilleries established on this footing has been closed, and that the trade is languishing. But looking to the satisfactory results achieved elsewhere, it seems to us that the question is deserving of further consideration, which it will doubtless receive at the hands of the Bengal Government in connection with the report submitted by Mr. Buckland on the Bombay and Madras systems, a copy of which was forwarded to Your Lorship with our Despatch No. 22, dated 22nd January last.

14. The table in the margin, which shows the fluctuation of excise revenue in Bengal under the outstill and distillery systems, is very significant of the effects of the hasty and ill-considered introduction of the centralised system, regardless of local conditions. The orders for the general suppression of outstills in Bengal were made peremptory in 1863. The immediate result was a large loss of revenue, which did not regain even the standard of 1863-64 until 1871-72, and then only after it had been again found necessary to resort to outstills. The habits of the people did not undergo any violent change during this period, and the only possible inference from the great fluctuations in the revenue is that the adoption of the centralised system, under conditions to which it was unsuited, led both to a great loss of public income and to a great increase in illicit drinking. Other provinces have undergone the same experiences. A striking illustration of the impossiblity of successfully replacing the outstill system by that of central distilleries, under all conditions and in all localities, is found in a passage from the report of the Commissioner of Excise in the North-Western Provinces and Oudh for the year 1882-83, which is as follows :—

Year.	Country Spirits.			Remarks.
	Sudder distillery revenue.	Outstill revenue.	Total revenue.	
1	2	3	4	5
	R	R	R	
1860-61 .	8,78,060	9,74,882	18 52,942	
1861-62 .	8,12,624	10,57,925	18,70,549	
1862-63 .	7,34,188	10,24,045	17,58,233	
1863-64 .	8,26,118	11,29,429	19,55,547	Orders for suppression of outstills "made peremptory."
1864-65 .	14,67,944	3,05,330	17,73,274	
1865-66 .	12,46,286	1,92.220	14,38,506	
1866-67 .	7.85,785	35,865	8,21,650*	
1867-68 .	12,37,557	27,453	12,65,010	
1868 69	16,11,292	34,055	16.45.347	
1869-70 .	15,28,257	35,647	15,63,904	
1870-71	18,07,450	39,878	18 47,328	Outstill system again introduced.
1871-72 .	18,11,273	1,23,832	19.35.105	
1872-73 .	18,86,279	2,34,989	21,21,268	
1873-74 .	20,92,878	2,42,365	23,35,243	
1874-75 .	20,36,335	1,91,727	22,28,062	
1875-76 .	22,41,591	2,68,473	25,10.064	
1876-77 .	23,30,773	2,94,626	26,25,399	
1877-78	25,41,621	3,49,439	28,90 460	
1878-79 .	16 97,085	12,73,826	29,70,911	Board of Revenue withdraw the orders limiting the capacity of outstills.
1879-80 .	13,75,092	18,13,759	31.88,851	
1880 81 .	11,81,717	30,39,582	42,21,299	
1881-82 .	12,60,144	33,60,051	46,20,195	
1882-83	13,48,214	34,78,084	48,26,298	
1883-84 .	13,74,755	38,47,976	52,22,731	
1884-85 .	13,88,520	34,66,691	48,55,211	Excise Commission recommend central distilleries for urban tracts, and more severe restrictions over outstills.
1885-86 .	15,33,773	29,76,455	45,10,228	
1886-87 .	18,29,229	29,62,020	47,91,249	

* The entries against the year 1866-67 represent figures for 11 months from May to 31st March, as the year was then changed from May to April. The year was also a famine year.

> The figures given in the report for 1871-72 are as startling as any to be found in recent years, and show clearly enough that in the Bundlekhand districts the distillery system utterly broke down :—
>
	1870-71. Distillery system.			1871-72. Farming system.		
	R	a.	p.	R	a.	p.
Tirohan and Badausa Tahsils of Banda .	173	8	0	6,617	8	0
District of Hamirpur	2,296	8	0	20,400	0	0
>
> It is inconceivable that the receipts for 1870-71 in any decree indicated the consumption of spirits in the two districts, or that those for 1871-72 proved a rapid change in the habits of the people. The conclusion seems to be obvious, either that the distillery system was wholly unsuited to the country, or that it was badly worked. Both objections were probably true. The distillery system was entirely unsuited to the southern portions of both districts, unless a strong and efficient preventive force had been maintained; and in the northern portions, in which there were only the difficulties that are experienced elsewhere, it seems incredible that in Hamirpur much attention can have been paid to this branch of the administration. Another tract with which also I happen to have personal acquaintance furnishes similar statistics. In the Robertsganj Tahsil of the Mirzapur district the revenue from country liquor fell from R3,421 to R311, and rose again on the re-introduction of the farming system in 1868-69 to R2,000, and subsequently to a steady average for many years of over R6,000—a sum which the sub-division of the farm and the consequently increased competition have trebled. Here, too, there can be no reasonable doubt that the introduction of the distillery system did not stop drinking, but that in a country for which it was entirely unsuited it gave a fresh impetus to the use of illicit liquor.

The failure of the distillery system was no doubt partly due to inefficient administration, but, even allowing for this, the results stated in this quotation are sufficiently remarkable.

15. Whatever the eventual decision may be on the question whether the outstill system can be successfully applied to whole Provinces, we submit to

Your Lordship's judgment that the information now collected shows that there is no reason for supposing that the Local Governments have shown any indisposition to recognise the necessity of doing everything that is possible to keep consumption under control, even in those tracts where the maintenance of the outstill system has been found to be inevitable, or where it is under trial. We venture to think that this system, as generally administered, does not merit the description given in paragraph 4 of Your Lordship's Despatch No. 28 (Revenue), dated 19th April 1888, in which it is referred to as a system under which "it is in the power of the distiller to make as much spirit and to push the sale thereof by cheapening liquor as far as he possibly can." In every case, even under the farming system of the North-Western Provinces and Berar, that power is subject to limitations of some kind—in all cases the number of places of sale is fixed by the Government, and generally either the number or capacity of the stills is limited, or a minimum selling price is enforced. It should in particular be remembered that the outstill system, except where it is undergoing a period of probation, is as a rule only admitted into localities where experience shows that any other system of taxing consumption must fail; that restrictions are generally enforced, and that these restrictions, so far as they go, are real and effective. In the statement attached to this Despatch Your Lordship will find statistics showing the extent of the operation of the outstill system in each Province.

16. We take this opportunity of making some remarks on the systems of excise administration in operation in Madras and Bombay, and of bringing to Your Lordship's notice the more important of the changes and reforms introduced by Local Governments since our Despatch No. 166, dated 25th June 1887, was written.

17. In Madras, the Local Government may fairly claim to have successfully solved the problem of controlling the consumption of country spirits. The system now in force was introduced at the recommendation of a Committee appointed by the Local Government in 1884. At the suggestion of that Committee the rights of manufacture and of retail sale have been separated; the areas, the right of retail sale in which is sold by auction, have been reduced with the object of eventually excluding the middleman and settling each shop separately; and a system has been introduced, under which the retail vendor may purchase his supply of spirits from any distillery, instead of one under which each shop was affiliated to a particular distillery. This system was adopted from 1st October 1884, and statistics comparing the consumption of, and revenue from, country spirits in the districts into which it was then introduced are given in the margin. Your Lordship will observe that, with practically no increase of consumption, there has been a very great increase in revenue. These figures indicate how fallacious is the argument, sometimes put forward, that because there has been a large increase of the Excise Revenue in recent years, there must have been a corresponding increase in consumption. Since the introduction of the new system there has been a general rise in the retail price of country spirits of from 8 annas to a rupee a gallon of spirit of 30° under proof. The comparatively large consumption in the year 1887-88 is attributed to the prosperity of the agricultural classes, but in view of it the Local Government has enhanced the fixed duty for the future. The system described above is now in force in the greater part of the Presidency, and, even in those localities where outstills are permitted, an attempt is being made to levy, by means of a tree tax, a quantitative tax on the weak toddy spirit produced, the aim of the Government being to extend to the whole Presidency a system under which a quantitative tax is levied on all liquor consumed. The efficiency of the preventive establishments, which enable this system to be successfully worked, has been already noticed.

	Consumption in gallons reduced to 30° under proof.	Revenue.
		R
1883-84 . . .	12,04,241	28,09,776
1884-85 . . .	11,85,678	*
1885-86 . . .	10,14,566	34,75,262
1886-87 . . .	10,84,474	38,02,136
1887-88 . . .	12,70,146	41,53,197

* [Omitted, as the year was one of transition from one system to another.]

18. The prevailing system in Bombay is that known as the "still-head duty, central distillery, and guaranteed minimum revenue system." Under this system, the right of manufacture and sale within a district is farmed, but the manufacture is concentrated in one distillery over which strict supervision

is exercised. Every gallon passed out of it is taxed, and the temptation to the farmer to procure illicitly produced liquor and sell it cheaply is remote, as he is required to guarantee a minimum revenue. Statistics of consumption are only available for areas under the central distillery system, which has been gradually extended till it now practically comprises the entire Province. This gradual extension of the area renders it impossible to compare the consumption of the present with that of the past, or the consumption of one past year with that of another. As one system is now in practically universal use, it will be possible in future years to make this comparison; if made now it would be misleading. For the present, it will suffice to invite Your Lordship's attention to the very great increase in the rates of duty set out in Appendix No. II of Mr. Buckland's report, and to the decrease in the volume of the taxed consumption in the city of Bombay, as typical of the influences which have been in operation concurrently with the great increase of revenue. The consumption was 907,000 gallons in 1872-73, 630,000 in 1881-82, and 621,000 in 1886-87. The duty was, during this period, raised from R1 for proof spirit to R2-12 for 25° under proof spirit, and the revenue increased from R7,20,000 to R20,17,476. The chief difficulty which it has been necessary to overcome in Bombay was due to the intermixture of British and Native territory. The solution has, as stated above, been found in the acquisition by the Local Government of the Excise revenues of most of the Native States concerned, which has made it possible to restrict the outstill area to very narrow limits.

From the 1st January 1888, the Local Government has introduced, experimentally, into the districts of Thana and Kolaba a system, by which the purchaser of the right of retail vend pays no license fee and guarantees no revenue, but contracts to pay, as license fee, a percentage on the still-head duty on the spirits he requires, which he must procure from one of the public distilleries. We have as yet received no report from the Bombay Government regarding the measure of success that has attended this experiment, but it seems open to the objection that it leaves the farmer subject to the temptation to procure and sell illicitly-produced liquor.

19. In the preceding paragraph and in paragraph 5 of our Despatch No. 166, dated 25th June 1887, we have explained the difficulties resulting from the interlacing of Native and British territory. Indications have appeared in the public press of a disposition to assert that the acquisition of the excise rights of Native States in certain cases has been prejudicial to the cause of temperance. To enable Your Lordship to estimate the justice of this accusation, we invite attention to the Proceedings of our Foreign Department indicated in the margin, which show that the outstill system which prevailed in Baroda and other States up to 1887 was accompanied by great abuses and the smuggling of cheap liquor into the adjacent British districts. The Government of India has also of late been freely charged with encouraging consumption for the sake of the revenue. It could not be expected that the excise administration of so vast an extent of territory should be incapable of improvement, and we do not assert that it is: mistakes have no doubt occasionally been made in particular tracts or by individual officers, but the accusation that the Government of India, or any Local Government, has knowingly stimulated the consumption of liquor in order to increase the revenue is altogether without foundation. The great increase in the revenue in recent years is mainly due to better administration and growing prosperity, and if there have been other causes at work, they are not such that the Government can be held responsible for them. The increase of revenue has been greatest where the control has been strictest.

Internal, June 1885, Nos 189-195
„ July 1888, „ 333-342.

20. Except the introduction of a regulated system into Upper Burma in 1888, the details of which were fully set out in our Despatch No. 159, dated the 16th June 1888, no further changes of importance have been introduced into the excise system of any Province since our Despatch of 25th June 1887 was written. More attention is being paid year by year to this department of the administration, and though the difficulties to be overcome are great and diverse in their nature, and though in some cases there may be room for difference of opinion regarding the suitability of the systems under trial, there is no reason to fear that the fundamental principles on which a revenue should be raised from the taxation of drink are likely to be lost sight of either by Local Governments or ourselves.

Statement showing the Revenue derived from the Outstill system, and the area within which it is in force.

	Outstill revenue.	Total excise revenue from country spirits.	Percentage of outstill revenue.	Outstill shops.	Total number of shops, country spirits.	Percentage of outstill shops to total shops.	Outstill area—square miles.	Total area—square miles.	Percentage of outstill area to total area.	Population outstill area.	Total population.
	R	R									
Bengal	31,91,334	52,05,122	61	3,535	4,105	86	...	156,564	.	...	66,703,481
Madras	8,05,938	52,18,029	15	4,200*	15,330	27	17,324	139,900	10	4,676,034	30,868,504
Bombay	†3,37,588	60,27,728	5	378†	3,884	9	7,457	124,122	6	1,458,172	15,064,660
Punjab	7,997	7,64,714	1	15	1,196	1	2,578	106,632	2	276,868	7,198,657
N.-W. Provinces and Oudh	6,00,566	38,65,330	16	1,612	7,294	22	36,824	106,111	34	9,072,694	44,107,869
Central Provinces . .	3,96,375	13,99,631	28	4,190	8,854	47	13,990	84,445	52	5,214,550	8,980,294
Lower Burma . . .	1,16,483	1,16,483	whole	...	...	...	...	87,220	...	...	3,736,771
Coorg	(Not in force)										
Assam	1,96,641	1,96,641	whole	229	229	whole	1,193	46,341‡	2	173,056	4,881,426‡
Hydorabad . . .	9,89,215	9,89,215	whole	1,442	1,442	whole	17,711	17,711	whole	2,672,673	2,672,673

* December 1888—Actually open 4,207. Sanctioned 10,317.

† Approximate.

‡ It must be recollected that this table deals with consumption of "country spirits" only, which term does not include rum. The Assam Government in 1887-88 reduced the number of "country spirit" shops in order to break down a combination of liquor-sellers, and substituted shops for the sale of rum. The old system has since been re-established. The Assam figures are therefore not typical ones.

No. 157, dated 25th May 1889.

From—The Government of India,

To—The Secretary of State for India.

With our Despatch No. 67, dated 12th March 1889, we forwarded to Your Lordship copy of a letter from the Government of Bengal, containing its views on the questions of the maintenance of the outstill system and the introduction of a system of local option in Bengal. These questions had been raised in certain memorials which accompanied our Despatch No. 23, dated 22nd January last. In accordance with the promise made in paragraph 2 of the Despatch of 12th March last, we now forward a series of reports from all Local Governments and Administrations showing the precautions taken, and the extent to which deference is paid to the wishes of the residents of the neighbourhood, before a license is granted to a shop for the sale of liquor.

2. In the memorials forwarded with our Despatch No. 23, dated 22nd January last, two separate and distinct questions were raised, that of the general abolition of the outstill system in Bengal and that of the introduction of a system of local option alluded to in the preceding paragraph. With the general nature of the outstill systems as administered in the several provinces of India, and the extent to which they are in force, Your Lordship has already been made acquainted by our Despatch No. 55, dated the 19th of February last, to which Your Lordship's reply No. 38 of the 28th of March has recently been received, and it is not our intention at present to enter on any further general discussion of this portion of the question. As regards Bengal, however, we stated in paragraph 12 of our Despatch that the excise system of that Province "must be still considered to be in an experimental stage," and that we had "requested the opinion of the Lieutenant-Governor on the question whether, instead of giving it a more extended trial, the outstill system should be generally abolished," and upon that opinion as recorded in the letter from the Government of Bengal which accompanied our Despatch of 12th March last, and the considerations upon which it is based, we beg to offer the following observations.

3. The proposal to resort to a general abolition of outstills throughout the Province is, as pointed out by Sir Steuart Bayley, not a new one. In paragraph 14 of our Despatch of the 19th February, we have already called Your Lordship's attention to the fact that since the year 1860 the excise system of Bengal had leaned at one time strongly towards the outstill system, and at another towards the entire suppression of outstills and the substitution for them of central distilleries. The table in that paragraph shows that the policy of suppressing outstills which is now under discussion was, more than a quarter

of a century ago, deliberately adopted in Bengal. An outstill system, combined from the year 1813 in certain parts of the Province with a farming system, had been established as long ago as 1793, and was maintained with but slight interruptions and modifications for about 60 years, before it was condemned as leading in its then existing form to an increasing consumption of liquor with its attendant evils. In 1859 the Government accordingly resolved to introduce the central distillery system in supersession of all others, and after four years of controversy, peremptory orders were issued in 1863 with a view to giving practical effect to this resolution. The result was that in the four years central distilleries increased in number from 96 to 264, and the outstills diminished from 6,655 to 165.

4. Though the outstill system began to recover ground in 1871, the experiment of the general establishment of central distilleries was practically allowed full scope for thirteen or fourteen years, by which time it was discovered that it had failed in realising the expectations with which it had been introduced. Its weak points were discovered to be (1) the facilities afforded for frauds by distillers in combination with the excise staff; and (2) the temptation given to illicit distillation in outlying districts, to which the transport of liquor from the central distilleries was a matter of difficulty, owing to want of proper means of communication and to the crude quality of the spirit which rapidly deteriorates and does not endure transport, and where the physical features of the country were such that unlawful production could not be suppressed. These evils gradually became so apparent, and the opposition to the system gained such strength, that the Government of Bengal, although not without much hesitation and reluctance, once more determined upon a reversion to the outstill system in all but central and populous places. The result was that in 1878-79 the number of outstills had risen to 3,911, while but 91 central distilleries were retained. These latter were further reduced by 1880-81 to 22, while outstills had increased to 5,657.

Vide paragraphs 12 and 13 of our Despatch of the 19th of February.

5. The effects of this sudden return to a system previously condemned were unsatisfactory: the price of liquor was lowered, and consumption increased. A large share of this result was doubtless due to the order of the Bengal Board of Revenue issued on the 4th January 1879 directing that the condition of the license under which the capacity of the outstills was limited should be withdrawn. The evils of increasing consumption due to cheap liquor became apparent, and in December 1883 an Excise Commission was appointed, whose report, presented at the close of 1884, was reviewed by the Bengal Government in March 1886. Stated briefly, the recommendations of the Commission were in favour of the re-establishment of the central disillery system in all towns, and the introduction into outlying districts of a regulated outstill system, under which both the minimum price of liquor was to be fixed and its production strictly limited. These recommendations have been practically accepted by the Bengal Government, and their present efforts are mainly directed to working out an efficient excise system upon the lines indicated. The practical problem, on which the fate of the outstill system will in a great measure depend, is whether, under that system, production can be effectually limited, or security obtained that no part of the liquor produced shall escape taxation. As we have explained, Sir Steuart Bayley and his advisers are engaged in dealing with this question at the present moment, and, although it has been decided that the outstill system is one that should not be generally adopted, it would, in our opinion, be premature to pronounce a final opinion on that system as applied in parts of the Province of Bengal, until time shall have been allowed to the responsible authorities to test by observation the practical effect of the reforms now being introduced.

6. The lessons taught by experience support the conclusion that no one system of excise is suitable for a Province where the conditions are so complex. While, therefore, Sir Steuart Bayley is prepared to give every encouragement to the extension of the central distillery system to all suitable localities, and has recently abolished outstills in the districts of Howrah and Hooghly, he is not prepared to view favourably any proposal for their immediate and general suppression all over the Province. He is of opinion that "the mere abolition of outstills in tracts where central distilleries cannot be introduced would obviously not tend to diminish drunkenness," and that as the whole question of

excise is now receiving an exceptional amount of attention, and every effort is being made to improve existing systems upon lines approved and adopted after the most mature and careful consideration, it would be highly impolitic and embarrassing to interrupt the course of the reforms now in progress by such a radical measure of change as that desired by the memorialists. This opinion we fully concur in; we doubt the expediency of uprooting the existing system while it is in process of reform and before it has been shown that a better system can be substituted, and we share the Lieutenant-Governor's hope that "the transition from a system of unrestricted outstills to one of rigid regulation," in those tracts to which experience has shown the outstill system to be most suited, may be attended with satisfactory results.

7. Turning now to the second and wider question raised by the memorialists, namely, that of local option, we are led by a careful consideration of the subject in all its bearings to the conviction that, under the circumstances which now exist, no such system could be successfully administered in any part of India. Any scheme of "local option" pre-supposes the existence of a highly developed system of local or municipal institutions, to which representatives are elected by the mass of the people and in which all conflicting interests command their due share of attention. In the communities in which such institutions are to be found, the necessary control over the actions of the representatives is secured by the right of periodical appeal to the judgment of the people. In India there is no representation of this character: the electoral system, so far as it has been introduced, rests upon the narrow basis of a restricted franchise and large masses of the people and those the least able to make their voices heard are without representation of any kind. No effective check could, therefore, be placed upon the capricious exercise of the power of granting or refusing licenses if it were entrusted to Municipal Committees or Local Boards.

8. "The peculiar conditions of society are," to use the words of the Lieutenant-Governor of Bengal, "such that it is altogether impossible to delegate to local bodies the power of dealing with the complex and difficult problems connected with Excise administration. In the first place, it is not allowable for members of the Muhammadan community to openly countenance or tolerate in any way the consumption of spirituous liquors. The use of spirits is forbidden by the Koran, and the representatives of this community would undoubtedly, were it in their power, uniformly declare against the grant of licenses to sell alcoholic stimulants." And again, notwithstanding that many Hindu gentlemen are entirely free from all prejudice in the matter, the general feeling amongst them is adverse to the consumption of spirits, and they would in most instances join with the Muhammadans in negativing proposals to grant licenses. On the other hand, the lower classes who habitually resort to stimulants, and who seldom use them in immoderate or injurious quantities but in many cases as an antidote to the climatic influences to which they are exposed, are entirely unrepresented upon Municipalities and District Boards, and would, were their supply of liquor removed, be undoubtedly forced to have resort to illicit distillation and consumption. We are led by these considerations to the conclusion that it is altogether chimerical to expect that the lower classes could, by the removal of liquor shops, be driven to habits of strict temperance; and that the Government would be guilty of a dereliction of duty if it were to permit the creation of the class tyranny that would inevitably result from the adoption of a system of local option.

9. We fear that the advocates of temperance in England who press for the adoption of this system of administering the liquor traffic, are not well informed regarding the peculiar structure of Asiatic society in general, and of Indian society in particular. To attain even a partial success "local option" demands a certain homogeneity of character, tastes, and moral standards in the community into which it is introduced. In India this condition does not exist; society is not so much an aggregation of individuals as of classes, and, moreover, of classes whose habits, opinions, and views of right and wrong are widely divergent. On such elected bodies as exist there are no representatives of the great mass of the people, and if the licensing power, unaccompanied as it would be with any kind of responsibility, were entrusted to Municipal and District Boards, it seems very probable that it would be exercised without much forbearance or regard for the susceptibilities of those chiefly interested. It is idle

to expect the difficult problem of the administration of the liquor traffic to be solved by the votes of representatives who are subject to these disabilities, and, in our opinion, no system of "local option" could be devised that would not, under the conditions that have to be dealt with, be doomed to failure.

10. Your Lordship is aware that even in countries where no violent differences of social habits and tastes exist, where representation is fully developed and political life most active, attempts to enforce abstinence under penalties have not been altogether successful or useful to the cause of morality; and we have little hesitation in coming to the conclusion that such attempts would be wholly unsuited to the existing conditions of this country, and that, even if representative institutions were more completely developed than they are, it would be exceedingly unwise to make India a theatre for experiments of this nature. These grave difficulties, which are not absent even in the most advanced cities of the Empire, would be especially felt in the smaller municipalities and outlying districts.

11. But while fully convinced of the impracticability and impolicy of introducing, or attempting to introduce, now or within any measurable distance of time, into this country any general system of local option, we are of opinion that no genuine expression of public opinion should be ignored in deciding whether a liquor license shall be given or not, and particularly in determining the location of a shop. To enable us to place accurately before Your Lordship the facts regarding the extent to which deference is now paid to local public opinion, we called for information from Local Governments bearing upon this aspect of the case. A brief summary of this information is now given.

12. In the district of Ajmere-Merwara, although no special rules have been drawn up upon the subject, the public in the vicinity are consulted as well as the police authorities previous to the opening of a new liquor shop; and the District Magistrate in his capacity of Excise Collector is the authority under whose permission all such shops are licensed.

13. The wishes of the residents of the neighbourhood are similarly consulted in Coorg, in which Province it is stated that, since 1886-87, 35 shops have been closed with a view to checking an undue disposition to drink among the people, while only one new shop has been opened.

14. In the Hyderabad Assigned Districts the number of liquor shops is fixed for each district by the Deputy Commissioner in charge. No remonstrance regarding their location has apparently been ever received, though, "if it were, it would," we are assured, "undoubtedly meet with full consideration."

15. The Chief Commissioner of the Central Provinces reports that although, in his opinion, it is only in one or two of the larger towns in which there exists an educated community whose opinion is of any weight or consequence, nevertheless, if the residents in any locality were to petition for the closing of a shop, the local authorities would give attention to their wishes. But, it is added, that here, as in the Hyderabad Assigned Districts, no instance of such a petition can be recalled. The opening and closing of shops is left entirely to the discretion of the Deputy Commissioners, who are also the District Magistrates, and the excise authorities have no immediate voice in the matter.

16. From Burma it is reported that proper weight is always given to the expressed wishes of the neighbourhood concerning the location of liquor shops, though no rules have been issued upon the subject. The Chief Commissioner cites several instances which have come under his own personal observation of licenses refused or withdrawn in deference to the wishes of local bodies, and states that they might easily be multiplied upon a reference to the district authorities.

17. There is no separate Excise Department in Assam, the Deputy Commissioners and Magistrate having the control over matters of excise within their respective jurisdictions, under the general superintendence of the Commissioner of the Division in the Assam Valley, and the Commissioner of Excise (who is also the Inspector-General of Police) in the rest of the Province. Representations against the establishment or maintenance of shops, though rare, are on record; and the Chief Commissioner reports that they "seem always to have received the very fullest consideration." It is stated that "Agents of Tea Gardens have sometimes a word to say for or against the establishment of a shop in a particular locality." We may add that the Chief Commissioner has been requested to make a careful enquiry into the cases referred to in the letters which accompanied Your Lordship's Despatch No. 13, dated 31st January 1889, regarding

the alleged facilities for drinking afforded to, and increase of drunkenness among, tea-garden labourers, and the opening of outstills and shops in spite of the protests of planters.

18. In Bengal more specific instructions have been issued for the guidance of the responsible officers in such matters. They have been instructed, in the circular quoted in paragraph 2 of the letter from the Government of Bengal, which forms one of the enclosures to this Despatch, to ascertain and to consider, though not necessarily in all cases to conform to, local opinion. Where municipalities exist, the Board of Revenue has been specifically directed to see that the Commissioners shall always be consulted; and remonstrances made by local bodies against the selection of the site for shops are never disregarded without good reason. It is further particularly ordered that, save for special cause, no liquor shops shall be opened near market places, schools, factories, and other places where they are likely to afford more than usual temptations to drink, or to offend public feeling.

19. In the North-Western Provinces, although, as in most of the preceding cases, no rules exist requiring that the opinion of local bodies should be obtained upon the licensing question, the excise regulations provide that opportunity shall be given to zemindars and neighbours of objecting to the position of shops; and any representations made by them or by local public bodies receive attention.

20. The excise rules of the Punjab distinctly lay down that no shop shall be opened in a village the inhabitants of which object to its establishment; and as a consequence the Lieutenant-Governor reports that various instances have occurred of the refusal to grant or renew licenses on these grounds. Nor is a single instance recalled in which a shop has been opened in opposition to the wishes of the inhabitants. The District Magistrate is here also the local head of the Excise administration, and no shops are opened or closed without his knowledge and concurrence.

21. The report of the Madras Government shows that remonstrances against the establishment of liquor shops are of rare occurrence; but when received, enquiry is made, and such attention as may appear reasonable is given to them. It is stated that but few new shops are now opened in the Presidency, and the number of those licensed is being rapidly reduced. In the majority of places in which there are shops public bodies do not exist, and where they do, they can in no sense be called representative. The Magistracy here, as elsewhere, are invested with the licensing authority.

22. Sanction to the licensing of shops in Bombay is only given after enquiry made in the districts by the Collectors, and in the island of Bombay by the Commissioner of Police. No complaints have apparently ever been received that representations made in the matter have not received the fullest attention. But it is pointed out that, as a rule, the inhabitants of that Presidency are not sufficiently interested to stir in the matter uninvited and, "if invited, would simply become the tools of wire-pullers on each side."

23. These facts, and the reports from which they are taken, will, we trust, afford Your Lordship sufficient assurance that local prejudices and feeling in the matter of the licensing of liquor shops are not lightly disregarded, and that safeguards are, as a rule, imposed against their establishment in localities where they might prove a source of annoyance to the neighbourhood, or in such numbers that they might unduly facilitate drinking. It is to the issue of general instructions for the guidance of district officers in dealing with excise questions, rather than to any scheme of local option that we must look, under the conditions of society in India, for the improvement of the Indian system of excise. With this view we shall forward a copy of this Despatch and its enclosures to all the subordinate Governments. Looking to the difficulties that would attend any attempt to suddenly introduce uniformity of practice over such a vast area as India, we have not thought it desirable to issue specific instructions on the subject at the present moment. The facts now brought together will enable each Government to learn what other Governments are doing, and to introduce such measures as may appear best suited to local conditions. The procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and where directions have been issued that, where municipalities exist, the Commissioners should be consulted in determining the location of shops, might perhaps be

generally followed with advantage; but beyond indicating our view to this effect, we prefer to leave the settlement of details to the several Governments. We shall, however, continue to give our attention to the subject, and we hope that it may hereafter be found possible to frame general rules, which Local Governments can supplement by the issue of instructions adapted to the special requirements of each province or locality.

No. 1-0--2-7 E., dated 19th February 1889.

From—H. J. S. COTTON, Esq., Officiating Secretary to the Government of Bengal,
To—The Secretary to the Government of India, Department of Finance and Commerce.

I AM directed to acknowledge the receipt of the orders of the Government of India No. 496, dated 25th January 1889, in which the opinion of the Lieutenant-Governor is invited on the following questions:—

(1) Whether the outstill system, instead of being given a more extended trial, should be generally abolished; and

(2) Whether a system of local option, as advocated by certain Associations, should be introduced in Bengal.

2. In reply I am to say that the first of these questions has always been a subject of burning discussion in Bengal; and the Lieutenant-Governor considers that it will be impossible to give any answer to it, without considering historically the policy which has been followed from time to time in the management of the excise on country spirits in these Provinces. The record of experience will be a more useful guide to future action than any expression of opinion based only on theoretic or abstract grounds. A full historical sketch will, I am to say, be found in the Report of the Bengal Excise Commission of 1883 84, to which reference is invited for a complete exposition of the Bengal Excise policy, both historically and otherwise; and the Lieutenant-Governor therefore bids me to confine myself in this letter to a summary which will bring into bold relief the important features connected with the changes made.

3. Under Regulation XXXIV of 1793 an outstill system was established, and a daily tax levied on each still at rates varying according to the importance of different localities. Under Regulation X of 1813, sudder or central distilleries were established at the head-quarters and in large towns of 21 districts, but the experiment was pronounced unsuccessful, and in a very few years most of them were abolished. By this Regulation outstills situated beyond 8 miles from a sudder distillery were to be managed as before; but authority was also given to farm the exclusive right to manufacture and sell spirituous liquors for any period not exceeding one year. Under Regulation VII of 1824 the limitation of farms to a term of one year was rescinded, and the farming system in other ways extended and strengthened. The result of this Regulation was that the whole Province was soon practically let in farm. At first the revenue increased, but it afterwards fell off from 19 lakhs in 1829-30 to 13½ lakhs in 1834-35. This collapse in revenue was followed by the appointment in 1840 and 1844 of two Abkari Commissioners, whose jurisdiction was confined in Bengal Proper. These appointments, again, were abolished in 1852 and 1853; but the system of excise, whether administered under special Commissioners or the ordinary staff of revenue officers, did not change, and as a rule was outstill, which a few sudder distilleries only maintained where they had previously existed. The farming system continued all along in Behar and Chota Nagpore.

4. It may be said at once that the farming system, which remained in force in those portions of the Lower Provinces where drinking is most prevalent, for nearly half a century, was a thoroughly bad one. Every encouragement was given to drinking; for the more shops open, and the greater the consumption of liquor, the larger was the farmer's profit. Both from the revenue and moral point of view it is a system to be condemned. The management of the outstill system was also very unsatisfactory; shops were multiplied, and the result was too often the simultaneous increase of drinking and of the excise revenue. These evils were so apparent that it was resolved by Government in 1859 to introduce the central distillery system in the place of all others. It was pointed out that the existing system of outstills

was objectionable because it involved no minimum rate of duty—indeed had no fixed excise on spirits at all—because much of the general dissatisfaction with the abkari system which existed had arisen from the outstill practice, and because that system looked for a revenue rather to a very large number of spirit shops and a great consumption than to a high tax and discouraged consumption. A long controversy then ensued. The objections to the general introduction of the central distillery system—objections which, as it will be seen, experience has shown to be valid—were forcibly brought to notice, but they were overruled; and in 1863 peremptory orders were issued directing that outstills should be generally abolished and central distilleries established in their place. When these orders were passed there were 96 central distilleries and 6,655 outstills in the Province; four years later the number of outstills had been reduced to 165, and the number of central distilleries increased to 264.

5. The change of policy upon which the Government of India have now called upon the Lieutenant-Governor for an expression of opinion was therefore deliberately adopted more than a quarter of a century ago. The experiment of the general abolition of the outstill system has been tried. For a period of thirteen or fourteen years it was allowed full scope, and the records of Government contain the amplest evidence of the effect produced. The minute recorded by Mr. A. Money, C. B., Member of the Board of Revenue, dated 25th January 1875, upon certain memorials which had then been presented against the excise administration of Bengal, contains the following remarks:—

"In 1859 the Government determined to extend the sudder distillery system as the best mode of maintaining a proper equilibrium between the real demand for liquor and the means for its supply. The theory of this system is perfect. Every ounce of liquor consumed pays duty before it is offered to the public. The rise or fall of the demand is as correct in its indication as are the changes in a barometer; and according to such should the duty be regulated. The rate of duty becomes the best and proper check against undue facilities for drinking. It logically follows that no necessity exists for imposing any limit on the number of shops. The rate of duty provides the necessary check."

The theoretic advantage of a central distillery system was therefore fully appreciated; but Mr. Money went on to explain that the system had not fulfilled the hopes of those who had insisted on its extension throughout the Presidency. Perfect in theory, it was found to have two weak points in practice—the facilities it affords for fraud and the temptations and comparative immunity it holds out to illicit distillation. It is impossible to prevent combination between the members of the Excise staff and the distillers and shopkeepers. It is a simple and easy matter for instance to pass out of the distillery 50 gallons of spirit, taking duty on only 40 gallons and entering only 40 in the books, the profit on the odd 10 gallons being divided between the officer in charge of the distillery and the shopkeeper; or it is an equally simple process to enter the whole of the 50 gallons in the register, but at a strength much below the real strength, and to levy the duty on the registered strength and divide the profit on the margin which has escaped taxation. On the other hand, illicit distillation continues practically unchecked: the revenue authorities have to trust almost entirely to the police, and experience has proved that the police are of very little use as abkari detectives. Illicit distillation is usually carried on indoors, and the sale of the liquor in most cases proves nothing, as the distiller is the shopkeeper licensed by Government. It was shown by careful enquiry in 1868 that in a very large number of shops, the details of which were specified in the report submitted, the amount of duty-paid liquor sold was insufficient to give a profit to cover the license fees and other expenses: and as it may be presumed that the liquor sellers did not carry on their business at a loss, the conclusion is inevitable that most of the liquor which they sold was smuggled.

6. The extent of frauds committed by distillery officers under the central distillery system is discussed at some length on pages 54 to 57 of the Report of the Bengal Excise Commission. Many of the distilleries were situated, at great distances from either district or sub-divisional head-quarters, in outlying jungly tracts, and practically out of the reach of all effectual supervision. The

duty on the spirit manufactured was many times the cost of production, and it is not surprising therefore that distillery and excise subordinates combined almost everywhere to defraud the revenue by passing out the spirit either duty-free or on payment of less than the proper rate. The records of every year are full of cases in which the officers in charge of distilleries were convicted and punished; and there can be no doubt that the number of frauds detected was very small compared with those not found out. The Commission, by careful calculation and enquiry into the statistics of the number of gallons which paid duty and passed into consumption during the year 1875-76, ascertained that the amount of spirit fraudulently sent out from central distilleries in that year could scarcely have been less than 340,000 gallons, and may have amounted to as much as 560,000 gallons, and that the revenues were therefore defrauded of an amount varying from Rs. 7,70,000 to Rs. 12,70,000. There can be no doubt that frauds to a similar extent were perpetrated during every year of the central distillery system. The Board of Revenue furnished elaborate comparative statistics in 1870, which showed that during the previous ten years the revenue receipts were 55 or 60 lakhs less than they would have been under the system which the central distilleries superseded. The whole of this loss of revenue may be attributed to the collusion of the lower excise officials with the manufacturers.

7. The prevalence of illicit distillation during the central distillery period is no less conclusively established. The Commission came to the conclusion, which is supported by evidence recorded in their report, that, especially in the mohwa-producing tracts, there was much illicit distillation during the period in which these tracts were exclusively supplied from central distilleries. They consider that there was extensive smuggling along various parts of the frontier. They were indeed of opinion that the harm done by illicit distillation and smuggling was less than the injury caused to the revenue by the illicit practices in central distilleries. But they pointed out that the demoralisation occasioned by the prevalence of illicit distillation and smuggling was much graver than a mere loss of revenue, and they have shown with great force and justice that among the greatest evils connected with the prevalence of such illicit practices in India are the dangers of abuse of power on the part of the preventive and detective establishments employed to restrain them, and the opportunities which are afforded to harass and oppress innocent people.

8. The evils which are described by the report of the Excise Commission were sufficiently obvious at the time to the district officers by whom the distillery system was worked, and who saw its defects; and they remonstrated with such persistence that the opposition to the system grew stronger and stronger until, under Sir Ashley Eden's administration, it was almost entirely swept away and the outstill system substituted. The orders for the abolition of the old system were very gradually and reluctantly passed; but when once a change in policy had been definitely established, the pendulum soon swung to the very other extreme. The principle was laid down by Mr. Alonzo Money that "the sudder distillery system should be adopted in towns and the outstill system in the interior, with strict precautions against the tendency of the latter to multiply outstills in the interior, and against the tendency of the former to increase shops in towns." And so Sir George Campbell, while he was not fully prepared to admit that the central distillery system had failed from faults inherent in it, or that it was expedient to return to the monthly-duty system in its old form, expressed his readiness, so long ago as in 1871, to consider any recommendations that in specially remote and thinly-populated tracts one or more stills should be licensed at a monthly fee, which would cover a fair duty on all the spirit that such stills could turn out. In a similar way Sir Richard Temple acknowledged in more than one Resolution that the outstill system had been found better adapted than central distilleries to outlying parts of the country. In accordance with these views the number of central distilleries had been reduced from 257, the number in 1868-69, to 211 in 1877-78, and the number of outstills had increased during the same period from 261 to 862. But the orders of 1877, which directed that sudder distilleries should be maintained only at central and populous places, and that outstills should be introduced beyond this radius, immediately produced a more marked effect. The very next year the number of outstills had increased to 3,911, and the central distilleries were reduced to

91. In 1880-81 there were only 22 central distilleries left in Bengal, while the outstills had increased to 5,657.

9. While avoiding one error, the Excise administration of these provinces has thus fallen into another. There can be no doubt that the abolition of the central distilleries was followed in many places by an increase in the consumption of liquor. The Government was not unaware of this tendency, and steps were taken in 1880-81 to effect a reduction in the number of outstills. By 1884-85 the number had been reduced to 3,747; but the evil was so great and urgent, and the price of liquor had been so obviously cheapened by the extension of the outstill system, that it became necessary to take special measures to remedy the evil, and with this object the Bengal Excise Commission was appointed in December 1883. The report of this Commission is a landmark in the history of Bengal Excise. It was submitted to Government towards the close of 1884, and was reviewed by Sir Rivers Thompson's government in a Resolution dated 10th March 1886, from which it will be convenient to make the following extract:—

"8. The special object of the appointment of the Commission was to ascertain the causes of this increase, and to suggest means by which they might be removed; and their enquiries were directed mainly to these points. In their opinion the primary cause of the growth of the habit of drinking among the people is the influence of social, moral, religious changes in relaxing the restrictions which had previously kept large classes from indulging in spirituous liquors; but there have been other minor causes, without which consumption could not have developed as it is seen to have done. Increase in the purchasing power of the consuming classes is assigned as a reason for some portion of the increased consumption; but the greater part of it must be otherwise accounted for, and the Commission enumerate the following causes:—

(1) The suspension in 1878 of the long-established rule limiting the capacity of stills, thus enabling the distillers to produce from their large stills greatly increased quantities of liquor at greatly reduced prices.

(2) The excessive number of shops that have been licensed, total population and area having alone been considered, although the proportion of the consuming population to the total population varies greatly in different districts.

(3) Improper selection of sites for shops.

9. The recommendations which the Commissioners make for removing these causes of increased consumption, and for remedying minor evils incidental to the present system, may be summarised as follows:—

(1) Central distilleries should be re-established in all large towns at the head-quarters of districts in which there is a great demand for country spirit.

(2) In other towns the stills should be grouped within one enclosure outside the inhabited parts of the town, and care should be exercised in the selection of the retail shops within the town supplied by these stills.

(3) In each district a maximum aggregate capacity for all outstills should be fixed, and the number of outstills and size of each still should be determined with reference to the maximum aggregate. All stills holding more than 10 seers should be of metal, and should be registered and stamped by the Excise authorities. The upset price of each still should be proportionate to its capacity, and should be calculated on the basis of the duty (at a rate fixed by Government) which could be levied on its outturn at a given strength.

(4) The aggregate capacity of the fermenting vats allowed to each still should also be fixed.

(5) A minimum price should be fixed for the cheapest sort of liquor according to the circumstances of each district and the prices now prevailing. On this subject Mr. Reily dissented from his colleagues.

(6) Excise establishments should be reconstituted on a more liberal scale."

10. On the various recommendations made by the Commission on minor points it is unnecessary to dwell. It is sufficient to say that the principles laid down by the Excise Commission have almost without exception been accepted by Government. The elaborate enclosures which accompanied my letter No. E $\frac{P}{5}$5, dated 6th December 1888, will show how far it has been found possible to give effect to them during the past 2½ years. In the face of all the difficulties which must everywhere accompany the introduction of a new system, it cannot be said that all the restrictions recommended have as yet been successfully imposed; but it may be fairly urged that great improvements have been effected; that the principle has definitely been established; that the distiller, under the outstil system, is not free to brew as much spirit as he likes, and sell it whenever he likes; and that the levy of duty as well as the conditions both of distillation and sale are carefully regulated with reference to the existing local demand The system in force is in fact a system of regulated outstills, and, as the Excise Commission have been careful to explain, if the producing capacity of the outstills is limited, and the revenue paid on each outstill is calculated in proportion to its capacity, there is little real difference in principle between such a system and the system of central distilleries.

On the other hand, the obvious advantages of the outsill system in repressing fraud and illicit distillation are retained. It has been pointed out by the Excise Commission that almost all the abuses connected with the management of the central distilleries disappeared with their abolition in outlying and imperfectly supervised tracts. There may be some openings for corruption at present, but the are comparatively small, and detection is much more easy with even moderately watchful surpervision. The outstill-holder is urged by the strongest motive of self-interest to do all in his power to put down illicit distillation, while the retail vendor, under the central distillery system, was often himself the chief illicit distiller.

11. The success of the present system of regulated outstill distillation must, however, entirely depend upon whether it is found possible to limit the size of the stills and vats. The Lieutenant-Governor has already observed that, unless the experiment of limiting their capacity or, in other words, of restricting the amount of proof-spirit to be distilled in a month in each outsill, can be successfully carried out, he is unable to see how the outstill system can fail to degenerate into the old indefensible arrangement under which the outstill-holder becomes a farmer pure and simple, with full power and every inducement to cheapen his liquor and increase the consumption thereof to the utmost possible extent. He has freely admitted that unless by some means the outturn of liquor from the outstill system can in practice be restricted, it will be exceedingly difficult, if not impossible, to justify the continuance of the system. The regulation of the outturn and the levy of a proportionate duty on it are therefore the main points to which the efforts of the Government of Bengal and of the officers employed under Government in carrying out its excise policy are now directed. Such regulation is deemed by some to be impossible; by others it is thought to be neither impossible nor even very difficult. But difficult or easy, it is the point upon which the maintenance of the system turns.

12. The Lieutenant-Governor is convinced that the repeated changes which have been made in the system of excise in country spirits are most injurious, and that no exclusive system can be adapted to these Provinces. He desires me to express his emphatic concurrence with the following remarks recorded in paragraph 102 of the Report of the Excise Commission:—

"At the best, every system of excise that has yet been devised has evils inherent in it, and dangers which have to be constantly guarded against. There is no system either unobjectionable in theory or faultless in practice, and all that can be done is to adopt for each place the form of taxation and manner of working which may seem best suited to it, and most likely to check avowed consumption without giving an irrestrainable impetus to unlawfull practices. This conclusion has forced itself upon the Commission as the main outcome of their enquires, and it has been clearly indicated throughout this report, but they think that it cannot be stated too strongly and scarcely repeated too often. For in looking back over the management of Excise in Bengal since 1790, nothing comes out more clearly than the mischief caused

by the belief that the particular system in favour at a given time was the one perfect and universally applicable system, and by the determination of its supporters to induce it everywhere and at all risks."

The central distillery system failed, because it was indiscriminately applied to all parts of the country without proper means of supervision, and no better success was obtained when outstills were introduced with equal indiscrimination and equally without proper check and controll. It was with due regard to previous experience, and the recommendations of the Commission, that the cardinal principle was laid down by Sir Rivers Thompson's Government that "an outstill system properly regulated is the most suitable for the country in general, but where special means of close supervision exist, and a large drinking population is found in a small and well-defined area, central distilleries, in which alone a uniform tax can be levied on spirit according to its strength, should be established." Under these instructions no uniform system has been adopted, but different systems have been applied which vary with the conditions and circumstances of different parts of the country. The tendency to which Sir Steuart Bayley has always given every encouragement is to extend central distilleries to every locality favourable to their introduction. The number of distilleries and distillery shops has increased from 21 and 479 in 1884-85 to 25 and 570 respectively in 1887-88. It is now in contemplation to gradually replace the outstill system by central distilleries throughout the whole tract of country in the immediate neighbourhood of Calcutta.

13. These observations, in which the history of the past has been reviewed and the present excise policy of the Government has been briefly described, will, the Lieutenant-Governor trusts, be found to furnish a sufficient answer to the first of the specific questions raised in your present letter. Sir Stewart Bayley is not prepared to look favourably on any proposal for the immediate or universal abolition of the outstill system in these Provinces. He is not in a position to suggest the general introduction of any other system in its place. Experience has decisively shown that the re-introduction of the old central distillery system, as it was worked in rural tracts, would produce demoralising results which are certainly not less injurious to the country at large than are the evils of the outstill system. The mere abolition of outstills in tracts where central distilleries cannot be introduced would obviously not tend in any way to diminish drunkenness. The whole question of excise is now receiving an exceptional amount of consideration, both at the hands of Government and from the Revenue officers entrusted with the administration; the supervision of the settlements of excise shops for the ensuing year,—a process which includes enquiry into the number of outstills to be licensed, the specific locality to be fixed upon for each outstill, the restrictions to be imposed on each outstill as regards still and vat capacity, the upset prices to be fixed in order to assimilate the rate of fee to the rate of duty payable on distillery liquor in the neighbourhood, and the minimum price to be sanctioned for retail sales,—has been imposed on a specially selected officer of standing and experience in excise matters, and the appointment of a Special Excise Commissioner in Bengal has been recommended to the Government of India and the Secretary of State, with immediate reference to the necessity of enforcing organisation in the management of this important department. The moment would, therefore, in the Lieutenant-Governor's opinion, be very inopportune for venturing upon any new departure in the administration. Every effort is now being made to improve existing systems on the lines of a policy accepted and approved, a large increase of expenditure has been incurred in the revision of distillery establishments, and proposals are under consideration for further strengthening the special Excise preventive staff which is now too weak for efficient control. It has already been reported to the Government of India that the transition from a system of unrestricted outstills to one of rigid regulation admits only of gradual accomplishment, but that the facts in the possession of this Government afford good ground for believing that it may be worked to a successful issue. The interruption to these reforms, which would be occasioned by any such radical measures as the general abolition of the outstill system, with nothing better than central distilleries to replace it in all localities, would create embarrassment and difficulties the end of which it is not easy to foresee.

14. Turning now to the second question raised in your letter, I am to say that the Lieutenant-Governor is convinced that it will not be possible to introduce into Bengal any such system of local option as has been advocated by the Associations who have presented memorials to the Secretary of State. The peculiar conditions of society in this country are such that it is altogether impossible to delegate to local bodies the power of dealing with the complex and difficult problems connected with Excise administration. In the first place it is not allowable for members of the Mahomedan community to openly countenance or tolerate in any way the consumption of spirituous liquors. The use of spirits is forbidden by the Koran. As a matter of fact, Mahomedans in Bengal are, as a rule, very abstemious, and the upper classes, rarely, if ever, indulge in drinking. The representatives of this community would undoubtedly, if it were in their power to do so, declare absolutely for the prohibition of all alcoholic stimulants. It would be incumbent on them by the tenets of their religion to do so. A Mahomedan gentleman, although he may tolerate the consumption of spirits by others when he is not responsible for its repression, could not venture to rise in his place at a meeting of a Municipality or District Board, and authorize the establishment of a liquor shop anywhere or under any restrictions. Similarly, in the case of Hindoos, who are not restrained by any religious sentiment from dealing fairly with excise questions, it is no less the fact that the upper classes of the community who, from the nature of the case, can alone find representation in local bodies, are equally precluded from openly countenancing the establishment of shops for the sale of liquor. Notwithstanding that many Hindoo gentlemen are without prejudice in regard to spirit drinking amongst themselves, and will occasionally indulge in private. It is a matter of notoriety that public opinion on the subject runs so strongly among them that one and all of them, including those who drink in private, would object in the same manner as the Mahomedans would do to any proposal for licensing a spirit shop. The influence of public opinion operates almost as strongly within the Hindoo community in this respect as does the direct teaching of the Koran upon a Mahomedan. If, therefore, power without responsibility is entrusted to local bodies, whether Municipalities or District Boards, consisting as such bodies must do of a large majority of Hindoo and Mahomedan gentlemen, there can be no doubt but that the lower classes who are not represented, but who habitually use stimulants, would be driven to the consumption of illicit liquor, and the whole system of Excise administration would be thrown into confusion. This condition of things is not likely to be materially modified for many years.

15. It is necessary for the Government to guard against any such class tyranny as the introduction of local option in this country would infallibly create. There is a certain proportion of people in Bengal,—fortunately a proportion much less than obtains in most other countries, but still considerable,—who are accustomed to drinking and whose craving for stimulants must be satisfied. "It is," as Mr. Money wrote in the Minute which has already been quoted in this letter, "mere foolishness to expect that a certain proportion of the people of this country will not continue to use stimulants, or that the Excise revenue will not increase. As the upper classes adopt more and more European habits, we must expect to see them take the bad with the good, and probably at first even more of the bad than of the good; while as the position of the lower classes improves, as agricultural produce yields a better price to the cultivator, and yearly the number increases of men, women, and children who earn a livelihood such as they never dreamt of in mills and factories, there will be a larger consumption of everything the mass of the people care for. They will wear more clothes, they will eat more food, and they will drink more liquor. Any attempt to enforce sobriety in a country where illicit distillation is so easy and so difficult of detection would be a failure All we can do is to limit ourselves to supplying the demand, and not to create it; to open no new shops except on proof that they are required to meet an existing want; and to act on an honest recognition of the truth that the Excise revenue is a very small matter in comparison with the comfort and well-being of the people." It is not the case with the great bulk of the lower classes who habitually use stimulants that they drink only for the purpose of intoxicating themselves. The statement is frequently made,

but it is not more true than it would be if applied to similar classes in England. If, however, this were the case, it would still be impossible to enforce sobriety by the prohibition of drinking, and, were it possible, the risk must always be great that those who are used to drink would be driven from the comparatively innocuous spirit of the country to the consumption of more injurious drugs. It is mainly for the protection of the labouring classes, who are accustomed to some stimulant, that is incumbent on the Government to retain its authority over the liquor traffic, and while regulating consumption by every means within its power, not to deny altogether to the unrepresented masses the opportunity of satisfying their reasonable craving. It cannot be expected that local bodies would be in any degree representative of the classes who are affected by local excise measures. To entrust the Excise administration of the country to their hands would lead to class intolerance and class restrictions, which can only be obviated by the direct and independent action of Government.

16. At the same time the Lieutenant-Governor is of opinion that a proper deference should be paid to expressions of local opinion in questions connected with the liquor traffic as well as in other matters. It is the duty of the Government to ascertain the sentiment and desire of the community amongst whom liquor shops are introduced, to comply with it whenever possible, and not to overrule it except under circumstances where such a procedure can easily be justified. The expression of opinion of Municipalities and District Boards, especially in regard to details such as the choice of sites and like, will often be a valuable exponent of public feeling to which due attention should always be paid. Such local sentiment is entitled to consideration, and it will be found that various orders have from time to time been issued by this Government and the Board of Revenue in which the observance of this policy is enjoined. It has been directed that the sites of shops should not be chosen near to market places, bathing ghâts and places of public resort, schools, hospitals, places of worships, factories, the interior of villages, the sides of roads leading to bathing ghâts or places of water-supply, and in some districts along main roads or in villages inhabited by aborigines of known drinking habits. The existence of a nuisance by reason of the establishment of shops is not tolerated, any every possible concession to public opinion is accorded in such matters. The Lieutenant-Governor, however, cannot admit that, under the existing conditions of these Provinces, there is any justification for going further than this, or for introducing in any shape a system of local option among local bodies, and for entrusting them with the power to prevent the sale of liquors.

No. 1-0—2-16E., dated the 4th April 1889.

From—H. J. S. Cotton, Esq., Offg. Secy. to the Govt. of Bengal,
To—The Secretary to the Govt. of India, Dept. of Finance and Commerce.

I am directed to acknowledge the receipt of your letter No. 994, dated the 22nd February 1889, enquiring—

(1) whether any, and if so what, rule or procedure is prescribed in Bengal requiring the wishes of the residents to be ascertained before a shop for the sale of intoxicating liquors is licensed in any locality;

(2) whether the rules require the opinion of local public bodies to be asked, or if it is customary to do so;

(3) whether attention is paid to any remonstrance which the residents or local bodies may make and whether their wishes are taken into consideration; and

(4) whether liquor shops are opened and closed at the discretion of the officers of the Excise Department, or whether the police or magisterial authorities are consulted in the matter.

2. In reply to the first three questions raised by the Government of India, I am desired to say that no hard-and-fast procedure has been prescribed in these provinces. Local officers are guided by the following instructions

which were issued by the Board of Revenue in their circular No. 666B., dated 2nd June 1886 :—

"The Board are averse to laying down a hard-and-fast rule on the subject of the selection of sites, and the Government have only insisted on greater care being exercised in the matter. The following principles may generally be observed. Each shop should be fairly accessible, as the more public is the place of vend, the better will be the supervision ; local opinion should be considered, though not necessarily followed ; on the other hand, sites should not, without some good reason, be chosen, near to market places, bathing ghâts and places of public resort, schools, hospitals, places of worship, factories, the interior of villages, the sides of roads leading to bathing ghâts or places of water-supply, and in some districts the sites of main roads and villages inhabited by aborigines of known drinking habits."

It was recently brought to notice by Mr. Westmacott's enquiries in the Hooghly district that the Board's orders respecting sites had been neglected in some cases, and the opportunity has again been taken to enjoin Collectors to be specially careful in selecting sites where complaints have been made, or where it is found that from any reason the sites already selected are objectionable. It has been pointed out that, as a general rule, outstills should not be in bazaars or at the entrance to bazaars ; and that, though they should be easily accessible to persons requiring liquor, they should not be in such situations as to obtrude themselves on the attention of the public, or to render persons passing by subject to annoyance from those who drink at the outstills.

The Board report that remonstrances against the grant of a license or selection of a site are seldom made by residents or by local bodies, but that their wishes, when expressed, are duly considered, and are not disregarded without good reason.

In regard to municipalities, it was directed by this Government in 1884, in accordance with the recommendation of the Excise Commission, that the Municipal Commissioners should be consulted in the choice of sites; and it is now reported by the Board that due attention is paid to the views of these local authorities before opening liquor shops within municipal limits.

3. With reference to the last enquiry of your letter, I am to say that under the excise rules now in force the Collector is required to lay before the Magistrate, and where there is a cantonment, before the officer commanding the station, a list of all the shops to be licensed during the ensuing official year. The Magistrate is empowered to object to any new site on which it is proposed to open a new shop, and to any old site if the experience of the past year has suggested doubts as to the advisability of renewing the license. After the licenses are sold, the Magistrate is again consulted with regard to the character of the licensees, and may object to any person who appears to him to be unsuitable.

In Calcutta a certificate of good character from the Commissioner of Police is required before a license can be finally granted and issued. The Excise Superintendent is also required to consult the Commissioner of Police with regard to every new site, and no such site is let by auction or otherwise unless it has been approved by both officers, subject to a reference to the Board of Revenue in case of disagreement. Before a shop is opened on a new site, notice of the intention to do so is published at the police-station and in a conspicuous place on or near the proposed site at least fifteen days before the grant of the license; and all objections urged by the inhabitants are carefully considered by the Superintendent in communication with the Commissioner of Police. There have quite recently been several instances in Calcutta in which, when the neighbouring residents have objected to the site of a shop for sufficient reasons, permission to open it has been refused by the police authorities.

4. A license which has been regularly issued can only be cancelled during the period of its currency by the Collector, under section 29, Act VII (B C.) of 1878, if the fee or duty therein specified be not paid, if any other condition of the license is violated, or if the holder is convicted of a non-bailable offence. The police and magisterial authorities are not ordinarily consulted when a shop is closed under this procedure.

No. 3686, dated 18th July 1889.

From—E. J. SINKINSON, Esq., Officiating Secretary to the Government of India,
DEPARTMENT OF FINANCE AND COMMERCE.

To—All Local Governments and Administrations.

In my letter No. 994, dated the 22nd February 1889, Local Governments and Administrations were asked for reports showing to what extent the wishes of the residents in the neighbourhood are ascertained and considered before a shop for the sale of intoxicating liquors is licensed in any locality. I am now directed to forward copies of the replies received to that letter and of the despatch of the Government of India* with which they were forwarded to Her Majesty's Secretary of State, and to invite special attention to paragraph 23 of the despatch, which explains the object with which the enclosed papers are circulated.

* No 157, dated the 25th May 1889.

2. It will be observed that, in the opinion of the Government of India, the best method of ensuring that due regard shall be paid to local public opinion in the matter of licensing liquorshops consists in the issue of appropriate instructions to the officers to whom the excise administration of districts is entrusted. The Government of India do not consider that it would be useful at present to issue any general instructions on the subject applicable to all provinces, but desire that the several Governments may give the matter careful attention, and after consideration of the measures in force and the experience gained in other provinces, as described in the enclosures of this letter, take such steps to secure the object in view as may seem suitable. The Government of India are inclined to think that the procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and directions have been issued that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops, might be generally followed with advantage. But having regard to the varying conditions of different provinces, it has been thought desirable for the present to leave to Local Governments full discretion to decide what measures are expedient in each case.

No. 67 (Revenue), dated 18th July 1889.

From—The Secretary of State for India,
To—The Government of India.

I HAVE considered in Council Your Excellency's letter (No. 157, dated 25th May 1889), with enclosures, concerning the outstill system of excise in Bengal, and concerning the advisability of introducing some form of local option in granting or continuing licenses for liquor shops. Since your present letter was sent, Your Excellency will have received my despatch, dated the 16th May, forwarding a copy of a report of debate in the House of Commons on the 30th April, and expressing my confidence that your Government would, in accordance with the policy which you have already adopted, proceed, with as little delay as possible, to carry into effect measures for the more effectual control and discouragement of the liquor traffic.

2. In regard to the outstill system in Bengal, I find that in March 1886 it was decided by the Bengal Government, after reviewing the report of the Excise Commission, to re-establish the central distillery system in all towns and to regulate more effectually the working of the outstill system. I gather, however, that up to a recent date, the central distillery system had been re-introduced into the Howrah and Hooghly districts only, and that it was still doubtful whether the working and yield of outstills could effectively be regulated. Meanwhile, a Bengal officer, specially versed in excise matters, has reported that in all districts of Bombay the central distillery system can be effectively worked, and that it could be applied equally well to most Bengal districts. I hope that the rate of reform in Bengal will be materially accelerated, and that the ratio of excise revenue raised under the outstill system will be reduced from 61* per cent. to some such ratio as that which obtains in Madras and the North-Western Pro-

* See enclosure to Government of India, letter No. 55 of 1889.

vinces at any rate, if not to that obtaining in Bombay. I consider that the outstill system should not be allowed to continue, save perhaps in sparsely peopled and comparatively wide tracts outside the populous districts of the Bengal plains.

3. In regard to the adoption of any system of absolute local option in licensing shops, I agree with the view taken by Your Excellency's Government. I consider, however, that the Punjab rule to which your letter refers might be recommended, if not for general adoption, at least to the consideration of all the Provincial Governments, in order that local and municipal opinion, when ascertained or expressed, might be allowed due weight in deciding the number and position of liquor licenses to be issued or continued in any tract or town.

No. 323, dated 15th October 1889.

From—The Government of India,

To—The Secretary of State for India.

We have the honour to acknowledge receipt of Your Lordship's despatch No. 67 (Revenue), dated the 18th July 1889, communicating remarks regarding the outstill system in Bengal, and the advisability of introducing some form of local option in granting licenses for liquor shops.

2. We desire, in the first place, to correct a serious misapprehension as to the extent to which the Bengal Government has already given effect to the recommendations of the Excise Commission. In paragraph 2 of the despatch it is said—

> It was decided by the Bengal Government, after reviewing the report of the Excise Commission, to re-establish the central distillery system in all towns, and to regulate more effectually the working of the outstill system. I gather, however, that up to a recent date the central distillery system had been re-introduced into the Howrah and Hooghly districts only.

In paragraph 105 of the Report of the Excise Commission, it was recommended that the central distillery system should be re-introduced into the twelve towns named in the margin; and it was added—

Patna, Gya, Arrah, Chupra, Bettiah, Muzufferpore, Durbhunga, Monghyr with Jamalpore, Bhagulpore, Moorshedabad with Berhampore, Burdwan, and Dacca.

> The question of establishing central distilleries in several other places was carefully considered by the Commission, but they decided against recommending it.

A reference to the Excise Reports of the Lower Provinces for 1885-86, paragraph 79, and 1886-87, paragraph 83, will show that by 1st April 1887 the central distillery system had been re-introduced in all the places in which the Commission recommended its introduction. It has also been since introduced in Howrah.

We also forward copy of a Resolution, dated the 10th August 1889, recorded by the Government of Bengal on Mr. Buckland's report of his enquiry into the systems of excise in Bombay and Madras. It will be seen from that Resolution that the Lieutenant-Governor has decided to adopt the system of administration which Your Lordship indicates as desirable, and has instructed the Board of Revenue and the Excise Commissioner to endeavour to replace outstills by central distilleries in all places, except where special circumstances, such as those mentioned by Your Lordship, render this inexpedient. We have forwarded a copy of the despatch under reply to the Government of Bengal, who, it will be observed, have decided to proceed much beyond the recommendations of the Excise Commission in the direction of introducing the central distillery system.

3. With reference to paragraph 3 of the despatch, we have the honour to enclose a copy of our circular No. 3686, dated 18th July 1889, regarding the weight to be attached to local and municipal opinion in deciding the number and position of shops licensed for the sale of liquor.

EXCISE ADMINISTRATION OF INDIA.

No. 29 of 1890, dated Calcutta, the 4th February 1890.

From—The Government of India,

To—Her Majesty's Secretary of State for India.

In our Despatch No. 209 of 6th July last we informed Your Lordship that we proposed to address you, at a future date, on the subject of the Resolution* adopted by the House of Commons condemning in general terms the Excise administration of the Government of India. We have now the honour to fulfil that promise.

* "That, in the opinion of this House, the fiscal system of the Government of India leads to the establishment of spirit distilleries, liquor and opium shops in large numbers of places where till recently they never existed, in defiance of Native opinion and the protests of the inhabitants, and that such increased facilities for drinking produce a steadily increasing consumption, and spread misery and ruin among the industrial classes of India, calling for immediate action on the part of the Government of India, with a view to their abatement."

2. We are fully impressed with the importance, and indeed necessity, of placing the Excise administration of this country on a satisfactory basis, but, as Your Lordship is aware, serious difficulties are encountered in attempting to establish in India a system or systems of Excise administration which shall be free from objection. These difficulties are, we believe, greater than are met with in any other country which is ruled on principles in accord with modern civilization, and the complexity of the questions involved makes it difficult for those who have no practical experience of the working of the administration to appreciate the obstacles with which we have to contend. Under such circumstances it is a matter for regret that the statements made in the debate on the Indian Excise system should, as it appears to us, have been inaccurate and misleading, and we feel it necessary to reply at some length to the criticisms which have resulted in the condemnation as a whole of the many widely differing and complex Excise systems which are in force in India.

3. With a view to indicating the unsatisfactory nature of the evidence before the House of Commons when the Resolution in question was passed, we have obtained from the several Local Governments authoritative reports regarding the statements made in the course of the Debate, and the correspondence will be found among the enclosures to this Despatch. On our own behalf we desire to add certain explanations and remarks regarding these statements: we

shall take the opportunity of explaining at some length the chief difficulties connected with Excise administration in India, and the methods adopted for overcoming them; and we shall also refer to the principles by which our policy in regard to liquor and drugs is guided, and explain the nature of the measures by which practical effect can be given to that policy. The task of commenting on statements made in the House of Commons is one which we would gladly avoid, but the interests at stake are too important to permit of our evading the duty, however unpleasant. In view of the position of the liquor question in India at the present time, we shall quote freely the evidence on which our conclusions are based.

SECTION I.—STATEMENTS MADE IN THE DEBATE IN THE HOUSE OF COMMONS.

Unfairness of treating the change in system made in Bengal in 1877 (and reversed after 1884), as a fair representation of the results of the Excise policy of the Government of India.

4. In the first place we desire to point out that what took place in Bengal between 1877 and 1884 cannot fairly be taken as an example of the deliberate and settled policy of the Government of India. The defects of the Central Distillery system, which will be mentioned hereafter, led in 1877 and the next few years to its being largely replaced by the Outstill system in that Province; and the Revenue authorities, in January 1879, in consequence of certain difficulties in enforcing it, suspended the rule which had previously been in force limiting the capacity of each outstill, and thus preventing the owner from manufacturing more than a certain quantity of spirit. The latter change was not made under the authority of either the Supreme or Local Government. Complaints followed, which, though exaggerated, were not without foundation, that the change had cheapened the price of liquor and led to an increase of drinking. In this view the number of outstills was steadily reduced from the year 1880, and a Commission was appointed in 1883 to enquire into the whole question.

5. The conclusions of the Commission were accepted by the Local Government and by the Government of India, and the Outstill system was contracted to the extent which the Commission recommended, and its other recommendations regarding the regulation of that system were carried out as quickly as was practicable. These changes were made before the question was discussed in Parliament, and although we admit that an error was committed in so greatly extending the Outstill system after 1877, and especially in removing the limitation on the capacity of outstills, and although we regret that the change was made, we are unable to find in the facts any sufficient support for the assertion that we are indifferent to an increase of drinking on the part of the Indian population, or any reasonable grounds for attacking the general policy of the Government of India in Excise matters.

No evidence to show that there has been an increase of drinking in Bengal since 1884, but evidence to show that there has been a decrease.

6. The remarks of the Government of Bengal in letter No. $\frac{5}{4}$13, dated 28th November 1889, enclosure No. (5) of this Despatch, deal with the charge made by Mr. Smith that there has been an increase of drinking in Bengal within the last few years. The evidence quoted in support of the charge is not of recent date. The Bengal Commission reported in 1884 that up to

that time there had undoubtedly been an increase in the consumption of intoxicating liquor. None of the evidence now brought forward is of a later date than that year. The Bengal Government, after considering and accepting the conclusions of the Commission, immediately proceeded to take steps to carry out its recommendations. There is no evidence to support the charge that drinking has increased in Bengal since the Government of that Province began in 1885 to carry out the Commission's recommendations. On the contrary the evidence supports the opposite conclusion: there has been a decrease in the issues of spirit from central distilleries in Bengal from 1,129,056 gallons in 1886-87 to 1,057,119 gallons in 1888-89, notwithstanding the fact that in the latter year the area covered by the Central Distillery system was greater than in the former year: the issues from outstills cannot be accurately stated, but the number of such stills and the area served by them has been reduced, and the total liquid capacity of all the outstills is little more than one-half what it was in 1886-87.

Opinion of Babu Keshub Chunder Sen, given in 1874, had no reference to recent years.

7. In support of his assertion that "every opinion confirms the astonishing increase in the consumption of spirits within the last few years," Mr. Samuel Smith quoted an extract from a memorial of the late Babu Keshub Chunder Sen, a well-known social and religious reformer. That memorial was forwarded to the Viceroy in January 1874, and was therefore written more than fifteen years before Mr. Smith quoted it to prove an increase of intemperance within the last few years. At the time when that memorial was written, the Outstill system, against which Mr. Smith's criticisms of the Excise administration in India, so far certainly as they apply to Lower Bengal, are mainly directed, was in force in that Province only to a very limited extent.

8. The alleged increase of intemperance to which Babu Keshub Chunder Sen referred was believed to have occurred mainly among the classes who had received an English education: the quotations made in support of his opinion and the general tenor of the memorial confirm this; the writer attributed the increase to two chief causes—"the unsettlement of popular faith and ideas, in consequence of the spread of English education, and the unnecessary multiplication of liquor shops." The Lieutenant-Governor of Bengal, after considering all the evidence forthcoming at that time, recorded his opinion that intemperance was on the increase only among "several sections of the educated classes among the natives at the Presidency Town (Calcutta) and at other large centres of national life."

9. The number of shops for the sale of distilled and fermented liquor in Bengal in each year from 1868-69 to 1874 was as follows:

	Distilleries.	Outstills	Rum.	Imported liquor.	Tari.	Pachwai.
1868-69	5,329	281	773	865	22,055	1,542
1869-70	5,682	300	776	901	22,329	1,655
1870-71	6,100	312	816	965	21,670	1,687
1871-72	6,153	1,058	773	953	21,689	1,815
1872-73	5,040	1,075	210	946	22,351	1,844
1873-74	4,723	1,076	122	891	22,873	2,006

Pachwai is a comparatively harmless home-brewed beer, and the figures just

given do not support the contention that any increase of drinking that may have taken place in the years preceding 1874 could, in any appreciable degree, be ascribed to "the unnecessary multiplication of liquor shops." We have no doubt that the other reason assigned for increase of drinking, namely, the unsettlement of popular ideas and faith, in consequence of the spread of English education, was correct, though we believe that the amount of increase and of evil resulting from it was exaggerated. Babu Keshub Chunder Sen saw, and deplored, this increase of drinking among that class of his countrymen to which he himself belonged, and in his desire for reform he urged that the number of liquor shops should be reduced; in point of fact any increase in the habit of drinking that may have taken place among certain classes at that time was not due to an excessive number of shops, and would not have been stopped by their reduction.

Temporary increase of drinking sometimes due to spread of English education.

10. One of the earlier effects of the spread of education and enlightenment in such countries as India may sometimes be an increase in intemperance: old checks based on imaginary sanctions lose their power of restraint, and the result is excess. But this result is, we believe, only temporary: education in time establishes more solid and enduring restraints against intemperance than those which it destroys. The gradual growth of a healthy public opinion will, in our opinion, reduce intemperance in a wider, surer, and more lasting manner than the most severe restrictive measures which Government could adopt. It seems to us better to await with confidence this result of education and to assist in the formation of sound public feeling than to be hurried by alarm at a temporary evil into hasty attempts at forcible repression. A change of this nature in public opinion has occurred in the present century among large classes of the people of Great Britain: habits of intemperance which formerly prevailed among certain classes in England without disgrace are now condemned as disgraceful. We are glad to think that enlightened public opinion has already begun to work in the direction of sobriety and moderation among the class of educated Natives of Bengal to whom Babu Keshub Chunder Sen's remarks applied, and we quote with satisfaction the following extract from the evidence of Mr. Romesh Chunder Dutt, Magistrate and Collector of Backergunge, a Member of the Bengal Civil Service, given to the Bengal Excise Commission in 1883:—

"I wish to make a few general remarks about drinking among respectable and educated men. It is a mistake to say, as is often said, that English education has introduced drink in India. Drink was well known in ancient India, and we know enough of the facts of the last century to be able to assert that drinking was a fashionable vice among the courtiers and retainers of princely zemindars. Devout Shakta worshippers have also been partial to drink for many centuries in Bengal, and semi-aboriginal castes have always been addicted to drink. There can be no doubt, however, that with the introduction of English education in Bengal in the early part of this century a sort of impetus was given to drinking among the higher classes. Educated men who broke through the prejudices against forbidden food disregarded at the same time the salutary restraint against drink. Drinking was regarded as a sort of index to liberal ideas and reformed ways—as a commendable accomplishment in an educated gentleman. When there is a reaction against ancient prejudices and senseless social restraints it is difficult to confine it within the exact and proper bounds, and the first distinguished men from the Hindu College, who took part in all the commendable political and educational reforms a generation or two ago, were generally men who were not admired for their sober habits in private life. The example of these distinguished men was of course followed by a large circle of educated men in Calcutta.

"I have noticed with pleasure a salutary change in Calcutta society within the last 20 years or less. A closer knowledge of English society, derived from a more careful study as well as by the frequent visits of our young men to Europe, has convinced our educated countrymen that drinking is not a necessary accomplishment in English society, and that drunkenness is simply not tolerated. The public men of the present generation, who take a lead in most political and social agitations, and whom the great majority of educated men almost instinctively follow to some extent, are setting a commendable example of temperance, which is different from the example which was set 30 years ago. The thousands of school-boys who flock to public places to listen to the speeches of their leaders in political and social matters are intimately acquainted with their habits and thoughts in private life, and instinctively adopt many worthy and amiable traits in their conduct. I believe I am right in stating that drunkenness is decreasing among the higher and better educated classes in Calcutta, and the example set in Calcutta spreads rapidly among the similar classes in all mofussil towns.

"I have made the foregoing remarks in order to show that drinking among the educated classes has nothing whatever to do with the Outstill system, and that it depends entirely on other influences on which Excise legislation has no control."

Evidence of Mr. Metcalfe.

11. Mr. Smith also quoted the evidence of Mr. Metcalfe, Additional Commissioner of Patna, before the Bengal Excise Commission, to show that intemperance had increased in Bengal in consequence of the re-introduction of the Outstill system. The passage quoted from Mr. Metcalfe's evidence was as follows:—

"I have been officially connected with this district since 1879 to 1884 as Collector and from 1874 to 1876 as Officiating Commissioner.

"My experience has been as a Collector both of the Sudder Distillery and Outstill systems.

"The habit of drinking has extended to all classes. The quantity drunk is larger owing to the cheaper price at which it is now sold. Persons who previously were satisfied with a dram are now able to afford a bottle or two.

"Among the labouring and artizan classes drinking has increased to a deplorable extent. I have not noticed any cases among school-boys, but my experience is that domestic servants, day-labourers, and women drink to an extent I never noticed before under the Distillery system. Under the Outstill system the habit of drinking is forcibly brought home by instances such as these. My coachman has tumbled off his box drunk. If I want a mochee to mend the harness, I have to arrange that he shall be sober the night before. A workman now drinks his bottle of spirit as regularly as he eats his food, and quarrels have become frequent."

Mr. Metcalfe was an officer of long service and wide experience, having first arrived in India in the year 1857, and he was the highest official but one in Behar. His evidence is justly entitled to weight. But the Commission also took the evidence of Mr. F. M. Halliday, the only officer in Behar of higher rank than Mr. Metcalfe, and of at least equal experience, as he came to India in 1856. Mr. Halliday's evidence is printed in Appendix A and by no means supports the extreme statements made by Mr. Metcalfe.

We are not aware of any good reason why the evidence of Mr. Metcalfe should be held to be conclusive, while that of Mr. Halliday is ignored.

Evidence of Mr. Hudson.

12. The following passage was also quoted by Mr. Smith from the evidence of Mr. Hudson before the Bengal Commission:—

"The upshot of the enquiries I have made among the planters and my personal observations during a residence of 20 years is that drunkenness has greatly increased during the last few years. I attribute this principally to the fact that 20 years ago, and up to a few years past, it cost a man four annas to get drunk on spirits; now he can make himself dead drunk—*thik nisa* as it has been expressed to me by a 'habitual,'—for one anna. Also, whereas it used to be most difficult to get spirits anywhere except at the distilleries, it can now be procured within reach of nearly every hamlet."

We have no doubt that Mr. Hudson gave his evidence in perfect good faith and fully believed everything he stated to be true. But while we admit that there was an increase of drinking at the time to which his evidence refers, though not due solely to the cheaper rate at which liquor could be procured, we are of opinion that a very exaggerated view of the increase was taken by him, and in so far as it is possible to test it by figures, his evidence is not borne out by facts. For example, it is not the case that it used to be most difficult to obtain spirits anywhere except at the distilleries. Liquor is never sold from the central distilleries, but from the shops supplied by these distilleries; and the number of shops in any area under the Central Distillery system is usually greater than when the same area is brought under the Outstill system. In Chumparun, the district with which Mr. Hudson was best acquainted, the number of liquor shops in 1883 was 135. The population of that district was 1,721,608 according to the census of 1881 and the number of villages and hamlets contained in it was 7,762. There was therefore only one shop to 58 villages* and hamlets, and to 12,750 of the population. If we consider the adjoining district of Mozufferpur, with which Mr. Hudson, as an indigo planter, was no doubt well acquainted, we find the number of liquor shops to have been 134, the population 2,582,062, and the number of villages* and hamlets 5,138. There was thus in Mozufferpur one liquor shop to 38 villages and hamlets, and one liquor shop to a population of 19,270. We are unable to see how, under these circumstances, it could be said that liquor was procurable within reach of nearly every hamlet. The districts of Chumparun and Mozufferpur are comprised in the Division of Behar, and the number of shops for the sale of country liquor in that Division was 2,246 in 1871-72, 1,773 in 1880-81, and 1,417 in 1881-82, while it has never exceeded 1,079 since 1882-83.

13. The evidence of another non-official witness, Mr. H. W. Stevens, by no means bears out the statements of Mr. Metcalfe and Mr. Hudson, though he was intimately acquainted with the tracts of country with which these gentlemen were familiar. His evidence was as follows:—

"I am very well acquainted with the districts of Monghyr, Bhagulpore, Durbhanga, and Mozufferpore. I have been resident in these districts and constantly moving about for the last 20 years. During that time I was constantly employed on various public works, and have had very large gangs of labourers of various descriptions under me.

"I know so far about the working of the Sudder Distillery and Outstill systems that there were more supervision and restriction in the former than in the latter.

"I have no reason to suppose that drinking has increased in the above districts during the last ten years, but I do consider that the location of outstills in prominent localities in the neighbourhood of indigo factories and bazars has made drunkenness more apparent.

"I have never known drinking among school-boys. I think there has been an increase of drinking among domestic servants. I judge from my own servants, more especially among syces and outdoor servants, than among the indoor servants. It seems to be more in the districts north of the Ganges than in Monghyr and South Bhagulpore. I do not think that the pure agriculturists drink at all. Day-labourers much prefer tari when they can get it. When they cannot, they drink country spirits. On my quarries near here there are several hundred people employed. There is no difficulty caused by these people getting drunk, and no complaint on the subject. There is no liquor-shop at any of these quarries. There may be liquor-shops in the adjoining villages for all I know. These people, like all other low-caste labourers, get drunk at the Holi and other festivals. I do not believe that the

* Places with a population of 5,000 or more have been taken as towns: there are 16 such in Mozufferpur and 4 in Chumparun. In calculating the number of villages to each shop, we have not struck out the shops in those towns, as the Excise Reports do not show them separately. If it had been possible to do this the results would have been even more unfavourable to Mr. Hudson's allegation.

drunken bouts on these occasions last longer now than they did formerly. I have never seen a drunken woman.

"From my own experience I should say that no caste which did not drink while the Sudder Distillery system was in force has now acquired the habit of drinking. I consider that the increase in drunkenness which I observed among the domestic servants is wholly due to increase of wages. Syces' wages have risen to 50 per cent. during the last 20 years, and the price of food in normal years has not increased.

"The last five years previous to the present one have been years of prosperity in the districts above mentioned; and if there has been any increase in the consumption of liquor in these years it has been mainly attributable to that prosperity.

"There has been a very marked increase during the last four or five years in the expenditure on the marriages of the labouring classes; such expenditure has materially increased the consumption of liquor. Country spirit, and not tari, is mainly drunk on these occasions."

Danger of accepting extreme statements made by particular witnesses in questions connected with drink.

14. In referring to the evidence of Mr. Metcalfe and Mr. Halliday, and of Mr. Hudson and Mr. Stevens, we desire to call attention to the danger of taking isolated portions of evidence, or the evidence of particular persons, as conclusive. India is so vast that nobody can possess a thorough knowledge of more than a comparatively small portion of it; and any one who makes general assertions on the strength of a few instances which have come to his own notice is liable to fall into serious error. There is a special reason for accepting with caution extreme statements made with reference to a question like that of the traffic in drink. Men's minds are in that matter greatly influenced by sentimental considerations, and there is a risk of the judgment being misled by preconceived ideas, especially when statistics are not employed to test loosely-formed opinions. The Bengal Excise Commission made the following remarks in connection with this matter:—

"When a person testifies from his own experience to an increase of drinking among the people of his own village, or among his workpeople, or among any set of people with whom he has had close and intimate relations, and to the extent of such increase, the statement, if made by a competent and unprejudiced observer, may be implicitly relied on; but it is impossible to attach the same weight to a very large number of the statements to be found in the evidence taken by the Commission. A striking instance of this will be found in the evidence taken at Jamalpore, in the Monghyr district, by one of the members of the Commission. Statements were then made, undoubtedly in good faith, by several of the officials employed in the Railway workshops, which statements were afterwards contradicted or seriously modified in an authoritative way."

15. We have no doubt that both Mr. Halliday and Mr. Metcalfe, Mr. Hudson and Mr. Stevens, though differing widely in their evidence, merely gave expression to their genuine convictions. The evidence of these four gentlemen referred to the same portion of India, namely, Behar. Of the two official witnesses, Messrs. Halliday and Metcalfe, it may fairly be said that their experience was equally great. The same remark applies to the non-official witnesses, Messrs. Hudson and Stevens. Stronger evidence could hardly be produced of the danger of relying on the mere opinions of individual witnesses. It is unnecessary to pursue the matter farther, as the conflicting evidence refers to a state of things which, as we have already said, ceased to exist some years ago.

Alleged increase in the number of drunkards.

16. When definite statements such as those relating to the increase in numbers of liquor-shops or the sale of liquor at almost every hamlet are made.

we can at least test their accuracy if we cannot disprove them. But general and indefinite assertions are more difficult to meet. Of this class is the assertion of Mr. Smith that, "whereas ten years ago there were perhaps 10,000,000 of drinkers in India, we have now turned them into 20,000,000." Regarding this statement we must content ourselves with remarking that the figures are, both absolutely and relatively, purely imaginary, rest on no basis of statistics or accurate observation, cannot be tested in any way, and that it would probably be as correct to say that whereas ten years ago there were 20,000,000 of drunkards in India, their numbers have now been reduced to 10,000,000. We entirely disbelieve that the number of drunkards in British India, using the term drunkards in its ordinary acceptation, at all approaches the enormous total of 20,000,000. There has probably been some increase of drinking among the classes that have come under the influence of Western thought, and among those members of the lower classes who have been brought together in large bodies to work in factories and on railways, and who receive much higher wages than formerly, but these classes are after all only a fraction of the total population, and a stricter system of Excise and higher rates of duty have, as the Bombay Government observes, "exercised a most salutary effect in preventing the general drunkenness that formerly prevailed among the lower classes in certain districts." The same Government adds: "The change that has come over the notoriously drunken population of the Thana and Kolaba Collectorates since 1878 is remarkable."

We think it quite possible that the total number of drunkards in India has decreased in recent years, though, of course, an increase of drinking among the numerically small portion of the population in the Presidency towns that has received an English education attracts much more attention than a corresponding decrease among the lower, and more numerous, classes in remote districts.

Alleged untrustworthiness of Official evidence.

17. Mr. Smith also asserted that as regards Excise matters "the officials are tied to the system, and we can place no more reliance upon their opinions than on the question of the abolition of slavery we could have followed the advice of West India Planters as to the moral effects of the system." With reference to this charge we desire to observe that the officials in India have no pecuniary interest of any kind in encouraging drinking; and that the position of officials in this matter differs, *toto cælo*, from that of the slave-owners who had a personal pecuniary interest in the continuance of the institution of slavery. Even the Local Governments, who are charged with the administration of the Excise Department, have a comparatively small pecuniary interest in the increase of Excise revenue, of which Provincial revenues now receive only one-fourth, the remainder going to the Government of India. The inapplicability of the comparison instituted by Mr. Smith is proved by another portion of his own statement. One of the strongest of the quotations made by him in support of his case was from the evidence of an official, Mr. Metcalfe. It is given in paragraph 11 of this Despatch. Another official, Mr. C. C. Stevens, Magistrate and Collector of the 24-Pergunnahs, stated in evidence before the Commission his belief from the information he could obtain that "drinking had increased among all the classes named in the questions circulated by the Commission except school-boys;" and he strongly condemned the Outstill system, and recommended the re-introduction of the

Central Distillery system in all but exceptional tracts where the circumstances are such as to render it impossible to work it. We need not multiply instances in which Government officials have recorded opinions against the system with which the pecuniary interests of the Government were supposed to be bound up. But we may state that of the 104 official witnesses examined by the Bengal Excise Commission, 56 gave evidence that drinking had increased under the Outstill system: most of these were of opinion that the increase was due partly or chiefly to the Outstill system: some of them recommended reversion to the Central Distillery system, others the better regulation of Outstills, while others did not propose any remedy for the evil. Even among those who did not believe that there had been an increase of drinking, some recommended on other grounds that Outstills should be displaced by Central Distilleries. We think that these figures disprove the assertion that our officers can no more be trusted in matters of Excise than could slave-owners in questions connected with slavery.

Alleged failure to carry out the recommendations of the Bengal Commission.

18. Mr. Smith also said: "Now, the Bengal Commission reported in favour of a reversal of the Outstill policy, and an attempt at reversal was made for a year or two; but as the revenue straightway fell off by ten lakhs the Government did not like it, and they gradually reverted to the old system." In this matter Mr. Smith has been misinformed. Since the Report of the Commission of 1883-84 was considered, the Bengal Government has been engaged in carrying out the recommendations of the Commission, as a reference to the yearly Excise Reports would have shown. Long before the date on which Mr. Smith made this statement the Central Distillery had been introduced in supersession of the Outstill system in every one of the places for which the Commission recommended this step, and the measures suggested by the Commission for the better control and regulations of outstills in places in which they considered that these should be maintained were being steadily brought into force. We desire to call special attention to this point, because Mr. Smith's confident assertions as to the Government having failed to carry out the recommendations of the Commission and the motive for its action being a desire to obtain revenue appear to have misled Your Lordship, and in Your Lordship's Despatch No. 67, dated 18th July 1889, it was assumed that the Government of Bengal had wavered in its expressed intention to carry out the recommendations of the Excise Commission in regard to the substitution of central distilleries for outstills, and a hope was expressed that the rate of reform in Bengal would be materially accelerated. The real facts of the case are fully explained in the Bengal letter No. E $\frac{24}{4}$ 13, dated 28th November 1889, enclosure No. (5) of this Despatch, and they have already been referred to above in paragraph 5. The Bengal Government is now going much beyond the recommendations of the Commission in the direction of abolishing the Outstill system. It is probable that Mr. Smith's misconception was due to the extension of the Outstill system in 1887-88 to a portion of the Hooghly-*cum*-Howrah district. This measure arose out of a recommendation of the Excise Commission, that two Central Distilleries in that district should be closed and that the location of a third should be changed. After careful inquiry, and in consideration of the fact that there was strong evidence of smuggling in the tracts affected, the extension of the Outstill system was held to be preferable. The results of this change were investigated very fully in 1888, by an officer, Mr. Westmacott, placed on special

duty for the purpose. The final result was that from 1st April 1889 the Outstill system was again abolished in that district.

19. Apart from the question of the general inaccuracy of Mr. Smith's assertion regarding the action of the Bengal Government, the figures of the Excise Revenue show that there was not a decrease of ten lakhs which could by any possibility be due to the adoption of the recommendations of the Excise Commission. The Excise Receipts in Lower Bengal were in—

	Rx.
1883-84	1,042,539
1884-85	1,005,222
1885-86	958,469
1886-87	1,012,583

The Report of the Commission was laid before the Government of Bengal in September 1884. Orders were issued in the following month to carry out some of the recommendations; but as the contracts for the year had been made in the previous March, effect could not be given to those orders till the following year; and the first steps in the direction of substituting Central Distilleries for Outstills had effect from 1st April 1885. Consequently the decrease of revenue of the year 1884-85 as compared with 1883-84 had no connection with the adoption of the recommendations of the Commission. The decrease in 1885-86 was Rx. 46,753, or less than five lakhs. In 1886-87 the revenue again rose above the figure of either of the two previous years, although in that year Central Distilleries were substituted for Outstills in some more districts.

Assertion that there is no risk of illicit distillation.

20. The supporters of the Resolution adopted by the House of Commons attempted to minimise the risk of illicit distillation in India. Mr. Smith remarked that illicit drinking was "a mere bugbear, an excuse to salve the consciences of the British people, an easy way to throw dust in the eyes of inquirers;" and Sir William Harcourt remarked that "illicit distillation generally exists where the sympathy of the people is with drink, and not where it is against it." The following extracts throw light on this portion of the question:—

Extract from a memorandum by the Chief Commissioner of Assam.

"The preparation of rice-beer presents no more difficulty than the infusion of a pot of tea, and has this additional facility that, whereas tea, under the circumstances in which we most know it, is an imported product, which has to be purchased, rice is the staple food of the country, and, being cultivated and stored in large quantities, every Kachari and every Miri has it always at hand. The mode of preparation is to steep rice in water for two or three days, then boil it with certain herbs, which act as a yeast, and the result is beer. It is rarely sold, each person manufacturing his own supply, and borrowing from his neighbour if he falls short" . . . . . .

"Pachwai is manufactured so simply that the process is only a little more complicated than the preparation of rice for ordinary meals or the brewing of a pot of tea". . . . . .

"It should be noted that the rice-beer is sometimes made to undergo a further process of distillation, and the distillate is called phatika. It is almost as cheaply and simply made as the rice-beer itself: take two earthenware pots; in one of them put the rice-beer, and on the top of it stand the other pot, first knocking a hole in the bottom of it. Stand a saucer on the bottom of the higher pot, and stop the mouth of this pot with a vessel made in the shape of an inverted cone and filled with cold water. Now set the whole thing on a fire. The fumes rise, through the hole, into the upper jar, are condensed against the cold inverted cone, and drop into the saucer in the form of spirits" . . . . . .

"If people want to obtain spirits, they can do so either by getting smuggled spirit from the hills, or by brewing and distilling for themselves by methods with which they are quite familiar, and which are very cheaply and easily available."

Extract from a Minute forwarded by the Government of Bombay.

"When licit markets for toddy were opened in all directions, and tappers were allowed to take or send their toddy to any shop or distillery they pleased, the transport regulations broke down, and any one who wanted toddy for illicit distillation was able to carry it where he pleased on the plea that he was conveying it to some shop or distillery. How greatly the facilities for illicit distillation were thus increased will be understood when it is remembered that any pot of fermented toddy can be converted into a ready-charged still, and that distillation can be set going anywhere within the space of less than five minutes. All the apparatus necessary, besides the pot of toddy, is an earthen saucer and a little wet earth wherewith to close tightly the mouth of the pot, and a small bowl to be placed floating on the surface of the toddy in the pot. If a pot of fermented toddy thus treated is set to boil, and the saucer closing its mouth is kept cool by pouring water on it, the spirit given off from the boiling toddy in the shape of steam is condensed on the under-side of the saucer, and drips from the saucer into the bowl floating on the toddy ready to receive it. Two or three bottles of strong spirit can thus be made in a couple of hours from an ordinary sized pot of toddy. Distillation of this kind can be carried on anywhere, in the houses, or in the fields, or in the jungles; wood and water are plentiful in all these coast talukas. It was the custom of the whole country-side to make toddy spirit in this primitive fashion before reforms were taken in hand in 1887-78. In those days such stills were in almost daily use in every village and hamlet of the toddy-producing tracts."

Other passages bearing on this question are quoted in paragraph 70 (4) of this Despatch and in Appendix C. Passages to the same effect will also be found in Appendix L. The extracts quoted at the end of Appendix C show how prevalent illicit distillation is in the Punjab, a province in which the rates of duty are specially high. We would also refer to the experiment in Thana and Kolaba, described in the memorandum printed in Appendix E, as an instance in which the prevalence of illicit distillation, immediately following on an attempted increase in the rates of duty, led to a complete breakdown of the system.

21. There is no room for doubt that illicit distillation prevails in many parts of India, that it is easily carried on, and difficult to detect. The tendency to illicit distillation forms a very real and, at a certain point, an insurmountable obstacle in the way of raising the price of liquor by imposing a heavy duty on it. In some places, the sympathy of the people is distinctly on the side of illicit distillation, and we are not aware of a single instance in which zeal for the cause of temperance has led to the discovery of unlawful practices. In such a matter experience is a safer guide than theory. The Bengal Excise Commission was composed of two Natives of India and two Europeans who had spent the greater portion of their lives in Bengal, and who were intimately acquainted with the country. They visited 27 Bengal districts; personally inspected 216 Outstills and 9 Central Distilleries; and examined 320 witnesses either orally or by written questions. They had no other duties to perform, and though their inquiry began in November 1883 they did not finish their labours till August 1884. Their report and the record of the evidence and proceedings fill two bulky volumes aggregating 643 quarto pages of closely printed matter. The inquiry and report may fairly be characterized as exhaustive, and we have never heard that the perfect fairness of the inquiry or the impartiality of the members of the Commission has been impugned. One of the members was Babu Krishna Behari Sen, a brother of Babu Keshub Chunder Sen, referred to in paragraph 7 of this Despatch, himself also a zealous social reformer. On the question of the sympathy of the people with illicit distillation this Commission reported unanimously in the following terms:—

"But, as a general rule, illicit spirit was distilled in small quantities and in the inner rooms of the houses or in the jungles. In the latter case, detection could only be the result of

accident. In the former, no matter how active detective officers may be, they can do little unless they are supported by the fellow-villagers of the offenders ; but it is notorious that excisemen cannot look for such support or aid. The sympathy of the people is entirely with the illicit distiller and the smuggler, who, as one of the witnesses expressed it, is always sure of his safety, impunity, and the friendship of his neighbours. He is sure that his neighbours will not betray him ; and in case he is spotted by an outsider, the neighbours will never turn evidence against him."

Alleged statements of Mr. Lallubhai Gordhandas.

22. In connection with the question of illicit distillation Mr. Caine quoted the authority of an official who is intimately acquainted with the Excise administration of Bombay. Mr. Caine said :—

"Sir David Barbour is wisely silent with regard to Bombay. I will not be silent. While I was in Bombay I had a visit from Lallubhai Gordhandas, General Assistant in the Abkari Department. I had a long conversation with that gentleman. I made careful notes of it and read them over to him with some care, and he admitted that they accurately represented what he said. His statements were (I quote from my notes) : 'Throughout the Presidency there is no illicit distillation whatever for sale. There may be a little prevalent where there are many toddy or mowra trees, for private consumption only. We have got Mr. Pritchard's system well in hand, and illicit distillation is now reduced to a minimum.'"

23. The statement of the official named, with reference to this remark, will be found among the enclosures of the letter from the Government of Bombay, enclosure No. (6) of this Despatch. From that statement it will be seen that Mr. Caine misunderstood what Mr. Lallubhai Gordhandas said: Mr. Lallubhai Gordhandas denies having used the words attributed to him by Mr. Caine regarding illicit distillation : the words he did use bear a very different meaning. Mr. Caine's memory has apparently also deceived him in leading him to say that he showed the notes of the conversation to Mr. Lallubhai Gordhandas, and that the latter admitted that the notes accurately represented what he had said. Mr. Lallubhai explicitly contradicts these assertions. The other enclosures of the Bombay letter furnish abundant proof of the incorrectness of the assertion that "throughout the" (Bombay) "Presidency there is no illicit distillation whatever for sale." Mr. Caine does not appear to have mentioned that Mr. Lallubhai Gordhandas told him that "the charge against the collectors" (of stimulating consumption by opening new shops) "was entirely groundless and opposed to facts"; "that his own observations and enquiry during his recent tours in Gujarat had inclined him to the opinion that, under the operation of the new abkari system and administration, the habit of liquor-drinking was unquestionably decreasing among the poorer classes and semi-wild tribes," and that he strongly cautioned Mr. Caine "against the fallacy of drawing general conclusions from isolated facts." Mr. Lallubhai Gordhandas's fairness, in the opinion he formed about an increase or decrease in the habit of drinking, is shown by his having stated that "indications of an extension of that habit among some of the middle and upper classes were perceptible," adding "that for this increase the Abkari Department was in no way responsible."

Fallacy of arguments based on increase of revenue in recent years.

24. Throughout the Debate there are frequent references to the increase of Excise Revenue in India in recent years as affording evidence of an increase of consumption. This question also was considered by the Bengal Excise Commission which remarked as follows :—

"Conclusions regarding the increase in the number of consumers drawn from revenue statistics are equally misleading. An increase in revenue in any given district or part of a

district does not necessarily indicate increase either in the amount of spirit consumed or in the number of consumers; and in like manner a decrease in the revenue does not prove that consumption is decreasing. Any improvement in the administration which leads to the taxation of spirit previously consumed free of duty must cause a corresponding increase of revenue without any necessary increase of consumption. Thus since the duty, which, as has been shown in a previous section, used to be divided between the darogahs and the distillers, has been recovered by the Government, there has been an increase in the revenue to the extent of the previous frauds, but no increase in consumption. On the other hand, there has been an undoubted and most serious increase in the consumption of spirit of recent years in some places, such as the urban parts of the Patna and Monghyr districts, where the revenue has actually decreased in spite of the increased consumption.

"A consideration of facts like these has convinced the Commission that it would not be safe to accept the revenue figures by themselves as the basis of any calculation."

25. The facts connected with the consumption of ganja in Bengal afford a striking illustration of the danger of assuming that an increase of revenue can safely be taken as proof that consumption has increased. We quote the following passage from the Financial Statement for 1889-90:—

"The following statement shows the number of shops licensed for the sale of ganja, the quantity of ganja consumed, the total revenue, and the incidence of taxation per seer for every year from 1868-69 to 1887-88:—

Year.	Number of shops.	Consumption in maunds.	Total revenue.	Taxation per seer.
			Rs.	R
1868-69	4,073	8,442	89,524	2 6
1869-70	4,437	8,667	92,521	2·6
1870-71	4,749	9,682	103,251	2·6
1871-72	4,934	9,972	106 275	2·6
1872-73	4,694	8,593	110,028	3·2
1873-74	4,398	8,125	107,785	3·3
1874-75	4,394	7,830	105,818	3 3
1875-76	3,340	7,389	112,035	3 7
1876-77	3,130	7,458	119,711	4·0
1877-78	3,247	8,197	138,566	4·2
1878-79	3,244	5,460	134,555	6·1
1879-80	3,210	5,137	129,016	6 2
1880-81	3,411	5,600	145,467	6·4
1881-82	3,488	6,431	171,379	6·6
1882-83	3,271	5,646	186,050	8 2
1883-84	3,298	5,881	197,371	8·3
1884-85	3,196	5,798	198,760	9·0
1885-86	3,033	5,717	194,662	8 5
1886-87	3,046	6,264	207,567	8·2
1887-88	2,949	6,550	224,497	8·5

"Notwithstanding the large increase of population which must have taken place between 1868-69 and 1887-88, the number of shops for the sale of ganja has decreased by more than 27 per cent., and the consumption by more than 22 per cent., while simultaneously the revenue has increased by more than 150 per cent., and the incidence of taxation per seer has increased by more than 226 per cent."

26. In the period during which the Excise Revenue has increased there

has been a large increase in other branches of revenue. For example, the Stamp Revenue has increased between 1871-72 and 1888-89 from Rx. 2,476,333 to Rx. 3,927,088, or by about 59 per cent. The increase of Excise Revenue (including for the present purpose the receipts from the duty on imported wine, spirits, and beer), is much greater, being from Rx. 2,605,227 to Rx. 5,253,629, or by about 101 per cent. But the Excise Revenue has increased, not merely by ordinary growth, but also owing to the adoption of stricter systems and the steady raising of the rate of duty whenever it was possible to do so. The duty on imported spirits during the period in question has been raised from R3 per gallon L. P. to R5 L. P., or by 66 per cent, and in Appendix F will be found a statement showing the increases in the rates of duty on country spirit in recent years: the figures there given show that there has been a steadily increasing use of the form of discouragement of drinking which effects its object by increasing the duty and thus raising the price of liquor. The only exceptions are in the case of the North-Western Provinces and Oudh, where it was found necessary to reduce the high rates introduced experimentally on the first introduction of the Central Distillery system in 1860-63.

27. A large portion of the increase which has occurred in the Excise Revenue is due to the general prosperity which India has enjoyed for many years. The wage-earning classes have obtained more regular employment on the large works which have been constructed in the last thirty years, and their wages have in many cases been materially increased: the construction of Railways has improved the condition of the lower classes in most parts of India, and they have consequently been in a better position to indulge their taste for drink than they formerly were. It is these classes that chiefly consume country liquor; and in India, as in England, an increase of the Excise Revenue in any year is an indication that the year has been a prosperous one. The following extract from a statement by the Dewan of Mysore will show that similar causes are producing similar results in that State:—

"Excluding, therefore, this increase from consideration, we still find a further and considerable increase common to both arrack and toddy, which we can only attribute to increased consumption. In my opinion, it is the result of prosperous seasons and good crops and of the very great rise in the wages of labour which has taken place within the last few years. With extensive railway works between Gubbi and Harihar, with the large expansion of the gold industry in Kolar, and with public works of all kinds employing large numbers of coolies in every part of the province, the demand for labour has for some time past been far in excess of the supply, and led to the importation of a large miscellaneous class of labourers from outside the province. The high wages earned by labourers of this class, as well as by those of the province, account in my opinion for a great part of the increased consumption of both arrack and toddy."

28. In this connection we desire to refer to the import of spirits into India by sea, the increase in which was alluded to in the Debate as part of the indictment against the policy of the Government of India. In respect of this portion of the liquor traffic no accusation of stimulating consumption by the Outstill or Farming system, or by imposing a minimum guarantee, can be brought against any Province, for no such system is, or ever has been, applied in the case of imported liquor. Such liquor is practically dealt with in the same way as liquor in England, except that the number of shops is very limited. The consumption of imported liquor could therefore only have been stimulated by reducing the rate of duty. The rate of duty has not been reduced, but has, on the contrary, been increased twice within the last twenty years.

29. We give below a table showing the imports of spirit for each year since 1870, the rate of duty per gallon, and the amount of duty realised:—

Importation of Spirits into British India by Sea from Foreign Countries.

During	Quantity.	Amount of Customs duty realised.	Rate of duty per gallon of London proof.
	Gallons.	Rx.	R
1870-71	461,323	154,309	
1871-72	671,626	167,417	
1872-73	723,609	184,068	3
1873-74	608,824	193,261	
1874-75	674,987	215,240	
1875-76	704,874	225,667	
1876-77	654,527	255,128	
1877-78	737,714	275,983	
1878-79	692,384	286,847	
1879-80	814,334	321,846	
1880-81	848,238	307,905	4
1881-82	842,739	337,497	
1882-83	949,169	353,624	
1883-84	894,420	355,210	
1884-85	857,970	344,193	
1885-86	936,984	363,075	
1886-87	1,064,386	429,708	
1887-88	1,084,487	462,935	5
1888-89	1,119,367	482,854	

30. It will be seen that in 18 years the rate of duty has been increased by 66 per cent., and that, nevertheless, the quantity consumed has increased by 142 per cent. and the revenue by 161 per cent. The fact that the rate of increase of revenue is not proportionate to the increase in quantity and in duty is an indication that the spirits now imported contain on an average less alcohol per gallon than in former years. In quantity of pure alcohol imported the increase is about 50 per cent. The increase of the Excise Revenue proper, *i.e.*, excluding the duty on imported wines, spirits, and beer, between 1870-71 and 1888-89 has been from Rx. 2,374,465 to Rx. 4,705,346, or an increase of 98 per cent., against one of 161 per cent. in the case of imported spirit.

31. The figures we have just given show clearly that an increase in the revenue derived from excise or even in the quantity of liquor consumed does not necessarily indicate any relaxation of the restriction on the liquor trade. We have adopted what is admitted to be the most efficacious means of restricting the consumption of imported spirits by imposing a high duty and raising the rate from time to time. The imports have, nevertheless, increased; and the increase has been greater, proportionately, than that of the Excise Revenue proper. We believe that a portion of this increase is due to the higher rates of duty gradually imposed on spirit manufactured in the country which have made it possible for imported spirit to compete in some places with country spirit. If we are correct in this conclusion, there cannot have been any stimulus of the sale of country spirit by reducing the cost at which it may be procured. But apart from that, the point we wish to bring out is that the fact of an increase having taken place in a similar branch of revenue where we have admittedly adopted the best possible means of restricting consumption is sufficient to show that a mere increase in the Excise revenue is not a ground for condemning our Excise administration.

Mr. Caine's statement regarding the increase of consumption of liquor in Bombay.

32. After the passage in his speech quoted in paragraph 22, Mr. Caine proceeded as follows :—

"The system has now been in good working order for ten years, and what are the results? In 1882 the consumption of ardent spirits in the Bombay Presidency was two millions of gallons, and in 1886 it had risen to 2,750,000 gallons, these being the latest available figures. There was thus a net increase of 40 per cent. in four years, which means that it would double itself in ten years. We are asked to believe that this increase is due to the change from illicit to licit consumption."

A reference to paragraphs 8 to 16 of the memorandum of the Commissioner of Abkari, appended to the Bombay Government's letter of 6th December, will show that Mr. Caine has exaggerated the increase of consumption of liquor in the period he deals with. His figures do not represent the consumption of ardent spirits in the Bombay Presidency either in 1882 or in 1886. He has, apparently—his figures cannot be traced in the Excise Reports—, compared the consumption of a smaller number of districts at the beginning of the period with that of a large number at the end of it, and thence deduces an increase in consumption of 40 per cent. in four years. It is shown in the memorandum mentioned that, if figures which are rightly comparable are taken, the increase was 10 per cent. only: and it is claimed that of this the larger portion was due to the measures which had reduced smuggling from Native States and illicit distillation. We do not charge Mr. Caine with intentional misrepresentation: his mistake was no doubt made in ignorance, and was due to his imperfect acquaintance with the facts; but we would strongly urge that statements of this sort made in Parliament, where they cannot be contradicted at the time, should not be accepted as evidence sufficient to justify what is practically a vote of censure on the Excise administration of the Government of India.

Mr. Caine's statements in regard to the Revenue from Foreign liquor in Bombay.

33. Mr. Caine next gave figures showing the increase in revenue in the Bombay Presidency from (1) foreign liquors, (2) country spirits, and (3) drugs: he quoted average figures for the five years ending in 1877 and in 1882 and the figures of each year from 1883 to 1888.

The figures given for foreign liquors by Mr. Caine represent merely the fees payable on account of licenses for the retail sale of such liquors, and not the duty, and have only the most remote connection with the quantity of liquor consumed; with this important qualification, the figures are correct. But the increase of Rx. 1,600 in the five years ending 1882, as compared with those ending 1877, is almost entirely accounted for by the fact that in the earlier period the receipts in the city of Bombay averaging Rx. 1,300 were credited to the Municipality, and therefore not included in the Public revenue, whereas those receipts were in all, except the first year of the later period, credited to the Government. Mr. Caine has, therefore, inadvertently shown the increase of revenue at four or five times the real amount.

The omission of the Bombay City receipts in one of the five years ending 1882 vitiates the average of that period for comparison with later years, and there was no appreciable increase up to 1883-84.

After that year there was a considerable rise, correctly stated by Mr. Caine.

There was, however, a reduction in the number of shops from 393 in 1883-84 to 343 in 1884-85, and the increase in revenue was entirely due to a very considerable raising of the license fees for shops. Further comment on such figures, and the use made of them, is unnecessary.

Mr. Caine's statements in regard to Revenue from country spirit in Bombay.

34. For country spirits Mr. Caine gives what he states to be the revenue derived from "spirit manufactured at the Government distilleries." His figures are inaccurate, as is shown in the memorandum* by the Bombay Commissioner of Abkari. The increase which has occurred in the revenue from the still-head duty on spirits manufactured at the central distilleries in Bombay is mainly due, as stated by the Government of Bombay,—

(*a*) to the extension year by year of the Central Distillery system to districts in which the Farming system had before been in force;

(*b*) to the raising of the rates of duty, of which the Commissioner gives a few striking instances in his memorandum and full details in the appendix; and

(*c*) to the absorption of Native States into the system under the management of the Bombay Excise Department.

Mr. Caine's statement in regard to Revenue from drugs in Bombay.

35. In stating the revenue derived from drugs Mr. Caine has omitted to mention, no doubt because he was ignorant of the fact, that, in the period for which he gives figures, duty on import, export, and transport of drugs was added to the taxation previously imposed. The figures for the different periods are not, therefore, comparable.

Mr. Caine's remarks on the increased consumption of beer.

36. Mr. Caine made the following remarks concerning beer:—

"There was also an increase of 60 per cent. in the imports of malt liquors in the three years. Furthermore, there is, all over India, a steadily increasing manufacture of beer, strong in alcohol, on which no duty is paid. All the increased consumption is Native and not English. The English population is more sober and abstemious than in times past, and its consumption of liquor has certainly not increased. We have now 15,000 teetotallers in the Indian Army, and the evidence goes to show that a decreasing amount of liquor is consumed by our soldiers."

In the above statement there are one or two slight inaccuracies of fact which we need not specially notice, but the statement that no Excise duty is paid is true generally of beer manufactured in British India after the European method.

37. Within the last fifteen years—the manufacture of beer in India is of recent date—the propriety of levying an Excise duty on beer has several times been considered by the Government of India. The conclusion arrived at on each of those occasions was that it was undoubtedly right that a duty equal to that imposed on imported beer should be levied, but that the amount of beer manufactured in India was as yet so small that it was not worth while to undertake legislation for this purpose and to incur the cost of collection: if duty had been payable in 1888 at one anna a gallon, the amount of revenue would only have been Rx. 4,500, and from this must have been deducted the cost of collection. The levy of duty was, therefore, not finally negatived, but postponed until the manufacture of beer in India should assume larger proportions.

* Paragraphs 21 and 22, on page 27 of the enclosures.

38. The table below furnishes information regarding the consumption of beer in India since 1877—

Year.	Beer manufactured in India.	Imported Beer		Total.	Consumption.		
		For general consumption.	For consumption by Troops.		By Troops.		By others than Troops.
					Indian Beer.	Imported Beer.	
	Gallons.	Gallons.*	Gallons *	Gallons.	Gallons.	Gallons.*	Gallons.
1877	2,164,048	1,328,077	3,123,128	6,615,253	954,933	3,123,128	2,537,192
1878	1,522,769	1,089,211	1,965,222	4,577,202	869,270	1,965,222	1,742,710
1879	1,569,026	1,065,347	2,156,325	4,790,698	872,296	2,156,325	1,762,077
1880	1,974,578	1,152,978	1,695,959	4,823,215	1,298,773	1,695,959	1,828,483
1881	2,448,711	1,199,395	1,708,596	5,356,702	1,764,927	1,708,596	1,883,179
1882	2,594,667	1,170,554	1,486,234	5,251,455	1,699,914	1,486,234	2,065,307
1883	2,597,298	1,261,444	1,906,520	5,765,262	2,027,169	1,906,520	1,831,573
1884	2,778,680	1,066,913	1,505,062	5,350,655	2,030,499	1,505,062	1,815,094
1885	3,150 342	1,299,408	375,396	4,825,146	2,266,801	375,396	2,182,949
1886	4,403,638	1,715,638	152,064	6,271,340	3,339,361	152,064	2,779,915
1887	5,085,030	2,138,518	387788	7,611,336	4,178,658	387,788	3,044,890
1888	5,352,191	2,398,580	415,816	8,166,587	4,628,175	415,816	3,122,596

* Official years.

39. These figures do not bear out the assertion that the increased consumption of beer "is Native and not English." The consumption of beer by the British troops in India has increased. This is not necessarily inconsistent with Mr. Caine's assertion that the British soldier is more temperate than formerly, as the quantity of beer supplied to the British soldier by the canteens only represents a portion of the total consumption of liquor by the army, and there has been an increase in the number of the troops from 60,000 to 70,000, dating from 1885; there has also been a marked decrease in the consumption of spirits by British soldiers. Moreover, the consumption by the general population, shown in column 8 of the table, is not consumption by Natives of India only; Natives of India as a rule do not drink beer made after the European method, but there is a considerable and increasing European and Eurasian population in India; and increase in the consumption of beer by the general population is almost entirely confined to these classes. The number of Europeans in India was—

In 1871	121,147
In 1881	142,612
Increase	21,462

As the number of British troops was not increased between 1871 and 1881 the whole of this increase occurred among the European general population; and undoubtedly there has been a further increase since 1881 when the last census was taken. The census returns do not show separately the numbers of the Eurasian population; but there is no reason to doubt that this section of the population has also increased. A great part of the increase of consumption of beer must be due to the mere numerical increase in the European and Eurasian population. Mr. Caine's assertion that the whole of the increase in the consumption of beer is due to increased consumption by Natives is, as nearly as may be, the exact opposite of the facts.

40. On a consideration of the figures showing the amount of beer manufactured in India contained in the above table, we some time ago formed the opinion that the production has so increased as to make it worth while to impose an Excise duty. And in our Despatch No. 327, dated 15th October 1889, we proposed the levy of duty at the same rate as is levied on imported beer. Of this Your Lordship has since approved.

Additional liquor shops in Ahmedabad.

41. Mr. Caine made a charge regarding the opening of additional shops in the Ahmedabad District in the following words:—

"I read in this last report, 1886-87—

"'There were 102 spirit shops in the Ahmedabad district in the year 1884-85. Out of this number 19 shops were closed in the following year for want of custom. But during the year under report it was found necessary to re-open 11 of them.'

"Another paragraph in the same report gives the explanation of this remarkable operation:—

"'During the three years for which the farms were sold the farmer was not able to sell the full quantities of spirit removed by him from the distilleries under his minimum guarantee. So to enable him to do so, and keep up the revenue, 11 shops had to be re-opened.' During these four years under review in these paragraphs the spirit issued from the Ahmedabad Distillery to this farmer who required 11 shops to be re-opened was as follows:—48,000 gallons, 57,000 gallons, 63,000 gallons, 69,000 gallons. The maximum of revenue is undoubtedly secured, the minimum of consumption is secured by an increase from 48,000 to 69,000 gallons, an increase of 45 per cent. in four years."

42. The reason why so large a number of shops as 102 was allowed in Ahmedabad was that a part of the district interlaces with territory belonging to the Gaikwar of Baroda (the Chief who is said to have expressed to Mr. Caine his wish to enforce total prohibition if he were permitted), and that in the Gaikwar's territory the facilities for obtaining liquor were greater and the price of liquor much lower than in Ahmedabad; in consequence it was necessary to allow an unusually large number of shops with the view of preventing smuggling from the foreign territory. The facilities for obtaining smuggled liquor were, however, so great that the farmer gave up for a time the attempt to compete with the Baroda farmers, and asked that nineteen of the shops should be closed, hoping that the negociations then in contemplation for the introduction of a stricter system in the Gaikwar's territory would put an end to the illicit practices. As these negociations were prolonged the farmer asked that eleven of the shops might be re-opened in order that he might recover a portion of the custom in British territory which he had been compelled to relinquish to his rivals in Baroda. This was allowed. But when, in July 1888, the negociations with Baroda were brought to a successful issue, these eleven shops were again closed.

Alleged increase of shops in the North-Western Provinces and Oudh.

43. After referring to the increase of shops in Ahmedabad, Mr. Caine proceeded to make similar charges regarding several districts in the North-Western Provinces and Oudh, and quoted extracts from the Excise Reports of that Province. The Government of the North-Western Provinces and Oudh, in the letter which is appended to this Despatch, enclosure No. (12), deals in succession with each of those charges. We need not refer to them in detail; but merely remark that in our opinion it is shewn that if Mr. Caine had referred to the context of the reports from which he culled his passages, if he had even quoted in full all those he selected, and if he had stated the explanations of the various facts he brings to notice contained in the reports and in the orders of the Board of Revenue and the Local Government on them, the facts would have borne a different complexion from that which he put upon them.

44. The "standard" number of shops in proportion to population, mentioned in Mr. Caine's quotations, was laid down only as a general standard for comparison to assist Collectors in determining the appropriate number of shops

for their districts, because it had been found that the proportion of shops in different districts varied in a manner which appeared to be capricious. This standard had for its object, wherever it was to be used with the effect of increasing the number of shops, the displacing of illicit by licit consumption; and it was applied as frequently to the reduction of the number of shops as to their increase. The real facts are obvious from the Excise Reports and the orders passed by Government thereon.

We reproduce here the remarks of the North-Western Provinces Government on one of Mr. Caine's quotations, in which the standard number of shops was mentioned :—

"The passage referred to is paragraph 32 of the Report of the Commissioner of Excise for 1885-86, which runs as follows (the italics are not in the report) :—

"'*Etawah*.—The number of shops has increased from 53 to 67. There are 5 shops in the Municipality which are reported to be sufficient. In the village tracts the number is still far below the Government standard; *there is only one shop to 10,368 of population, or one in 23·6 square miles*. Efforts are being made to bring the number of shops up to the prescribed standard. Besides the 67 shops now opened, licenses were granted for others; but they were withdrawn when it was found that no liquor was sold at these shops.'

"Here, again, the words 'there is only one shop to 10,368 of population, or one in 23·6 square miles' have been omitted, with an object, obviously, similar to that which led to the omission of the words indicated in the preceding paragraph. A maximum standard having been prescribed by the Government with the object of adopting precautions against the consumption of unexcised liquor, the intention in this passage was to explain how and why this standard was not worked up to. The aim of the writer was not to draw the attention of the Government to the fact that he had increased the number of shops; but to explain that, although he had increased them, the circumstances of the district do not admit of the adoption of a standard prescribing a higher maximum as a safe guide. Incidentally he discloses, what Mr. Caine was careful to conceal from the House, that there is one shop only to more than 10,000 persons, and to every 23·6 square miles. From paragraph 15 of this letter will be seen more fully what are the circumstances of the district."

Since 1883-84 the number of shops for the sale of distilled liquor of all kinds in the North-Western Provinces and Oudh has been reduced by 1,523. This is conclusive proof that in recent years there has been no attempt to unduly increase the number of shops.

The liquor shop in Backergunge.

45. Mr. Caine in his speech during the Debate made a charge against the uthorities of a district in Bengal in the following words :—

"In the district of Backergunge, in Bengal, a religious fair is held every year. For some years past a liquor shop has been established there. The agent of one of the excellent and useful associations which are springing up all over India, watching the actions of Government, called upon the zemindar who owned the land and urged him to refuse to supply land for the liquor-shops any longer. He refused accordingly: but the Collector, Mr. Clay, of Backergunge, dropped on the zemindar at once, and wrote to him asking for an explanation. The zemindar called and explained, and two more letters followed, both of which I will read: the first is addressed to Chunder Dass, farmer of corn, spirit, and drugs, Lakutia :—

"'In accordance with the order of the Collector passed to-day, you are directed to open your shop as usual at the aforesaid mêla. A copy of this order is sent to the proprietors of that mêla, so that they may present to the Collector any objection, if they have any, to the opening of the aforesaid shop at the mêla—G. C. Dutt, Excise Deputy Collector.'

"The same gentleman, a Mr. Dutt, writes to Baboo Behari Lal Roy and two other zemindars—

"'As a person named Parna Chunder Das, *for a fee of 75 rupees*, got a license for setting up a shop for the sale of wines, ganja, and opium at your Lakutia mêla, and you did not allow him place to open his shop then, an order was issued on him to open his shop, and a copy of that order served on you that you may present to the Collector your objections, if you have any, to give him land for this purpose. Up to this day you have presented no objection and

given him no land for his shop. You are ordered to show cause before the Collector within two days why that shop should not be set up at your mêla.'

"What does this mean? These men are anxious to have their religious festival conducted decently and in order, and this Revenue official comes down upon them like a thousand of bricks, because of the shop not being opened. Just suppose for one moment a similar case in England."

The inference to be drawn from this statement is that undue pressure was put on the zemindar to induce him to give a site for a liquor-shop.

46. We will state the real facts of the case in connection with this shop. A fair is held every year in November at Lakutia. This fair is not a religious fair in any proper sense of the term. Like most, if not all, of the great fairs of India, it is held at the time of a religious festival, but is practically a fair for secular purposes. For more than twenty years a shop for the sale of liquor had been each year opened at the fair. Neither the proprietors nor any one else had ever raised any objection to the opening of the shop till 1888; no complaint was ever made of drunkenness at the fair, and the proprietors had always willingly granted a site for the shop. In November 1888 the right to open the shop was sold in ordinary course. When the purchaser went to open the shop a site was refused him and he reported this to the Deputy Collector. This was the first information the Excise authorities had of the change of view of the proprietors. As the reason of the change was not known a courteous letter was written on the 19th November by the Deputy Collector to the proprietors. Of that letter Mr. Caine has given a translation: the following is a full and exact translation, from which it will be seen that the tone of it is very different from what Mr. Caine believed it to be.

"To the Hon'ble Rakhal Chandra Ray, the Hon'ble Behari Lal Ray, and the Hon'ble Pyari Lal Ray Choudhuri—As a man, by name Purno Chandra Das, has taken the settlement at fees ₹75 of the ganja, opium, and spirit shops in your Honors' Lakutia fair, and as your Honors have not given him a site for the shop, an order (or permission) was given him for opening the shop, and a copy of the order (or permission) was sent to your Honors, so that your Honors might represent before the Collector any objection you have to granting a site, but up to the present your Honors have not represented any objection. Therefore it is now *written* (not ordered) to your Honors that you may within two days represent to the Collector the reason why the shop should not be opened."

When that letter was written by the Deputy Collector, the Collector had no knowledge of the fact that an objection had been raised to the opening of the shop. Mr. Caine was misinformed when he said that the letter quoted was written after the Collector's correspondence and interviews with the proprietor. The next day the proprietor wrote to the Collector that in order to check drunkenness he was not inclined to allow a liquor-shop to be opened at the fair. The Collector inquired why objection was raised then for the first time, as there had been none in former years. The proprietor on the 21st November wrote explaining his reasons at length. On receipt of his letter the Collector gave instructions that the shop should not be opened; and the shop was not opened.

47. This incident is a striking illustration of the disadvantage at which the Government of India is placed when its policy is discussed in England. The inaccurate version of the facts which was furnished by Mr. Caine was no doubt accepted as correct in the House of Commons. The true facts cannot be made known till this Despatch reaches Your Lordship.

The Opium shop in Lucknow.

48. In the Debate a description by Mr. Caine of a visit paid by him to an

opium shop in Lucknow was quoted. We accept Mr. Caine's words as a substantially correct, though highly coloured, description of what he saw; and we regret, as much as Mr. Caine and Mr. Smith, that the habits of any class of the people, however small, should be such as to lead to what Mr. Caine saw. The women whom Mr. Caine saw would be persons who were, or had been, leading a life of open immorality, and we believe that if the haunts of the dregs of the population in any great city are examined scenes of vice, misery, and excess will be found, and that Lucknow is not an exception to the general rule. We have done what we believed to be practicable and expedient in the direction of discouraging the smoking of opium and its preparations by imposing a heavy duty on it, and by reducing the number of shops licensed for smoking. The papers forwarded by the North-Western Provinces Government, enclosure No. (13) of this Despatch, show that the habit of opium-smoking was much more prevalent in Lucknow in the time of the Kings of Oudh than it is now. The number of shops licensed for opium-smoking has been steadily and persistently reduced till the number is now as low as is consistent with refraining from attempting the impossible task of absolutely preventing the smoking of opium. The number of shops for opium-smoking in the Lucknow District was—

In 1870	50
„ 1874	20
„ 1883	12
„ 1885	6
„ 1887	3
for 1890	2

Alleged wish of the Gaikwar of Baroda to prohibit the consumption of liquor.

49. In his speech Sir John Gorst remarked that there was not a single Native State where total prohibition is effected or indeed attempted to be carried out; and Mr. Caine thereon interpolated: "The Gaikwar of Baroda would do so to-morrow if he were permitted. He told me so."

We cannot, of course, say what the Gaikwar's personal wishes may be until he has directly or indirectly indicated them to us. But in the records of our Foreign Department there is nothing to show that the Gaikwar has ever shown any desire to abolish the liquor shops in his territory; and we have ascertained from the Resident at Baroda that the Durbar has never expressed a desire to adopt measures of total prohibition in respect of the liquor trade in the Baroda State.

50. That the wishes of the Gaikwar, as stated to Mr. Caine, if the statement was not merely a form of politeness misunderstood by Mr. Caine, were of very recent origin, our knowledge of the history of the Excise arrangements in Baroda proves conclusively. The Bombay Government in introducing the reforms of the last ten or twelve years—which may be generally described as the abolition of the Farming system, the introduction in its stead of a system under which a fixed duty is levied on each gallon of liquor, and the increase of the price of liquor by raising, from time to time, the rate of duty, coupled with strong preventive measures against illicit distillation and sale—encountered more difficulty in Gujarat than in any other part of the Presidency. In Gujarat British territory is surrounded by and interlaced with Native States,—the largest and most important of which is Baroda—the Excise arrangements of which rendered it impossible to

enforce a stricter system in our territory with the same measure of success as elsewhere. The system which up to 1887 prevailed in Baroda, the ruler of which is said to have expressed to Mr. Caine his desire to enforce absolute prohibition, was that referred to by Rao Bahadur Lallubhai Gordhandas as "the old detestable Farming system" in the extract from his report given in paragraph 72 of this Despatch. Some of the results of that system were the sale of liquor in Baroda at much lower prices than in adjoining British territory, constant smuggling from Baroda, frequent affrays between the smugglers and the British preventive officers, and the demoralization of the people on both sides of the border by the facilities furnished by Baroda for obtaining cheap liquor. It was only with the greatest difficulty, and after invoking the help of the Government of India, that the Government of Bombay induced the Baroda Darbar to modify these faulty Excise arrangements. In 1887 the Baroda State did consent to introduce a stricter system, the agreement made with it providing for the introduction of the Central Distillery system in a portion of the State, and elsewhere, for the maintenance of a narrow belt of land extending to two miles on each side of the border, in which shops and sales should be entirely prohibited. These arrangements are being carried out, but difficulties are still encountered in securing the co-operation of the Gaikwar's Government in measures which have for their object the enhancement of price and restriction of consumption of liquor.

51. The extract given in Appendix K from a memorandum by Rao Bahadur Lallubhai Gordhandas shows that judged by every possible test which can be reduced to figures—the proportion of shops to area and to population, and the consumption of liquor per head,—the facilities for drinking and the amount of drinking are very much greater in Baroda Territory than in the adjoining British Districts. It is also shown that there has recently been a larger proportionate increase of revenue in Baroda.

52. We therefore maintain that if the wishes of the Gaikwar are what Mr. Caine supposes them to be, he has, at any rate, not shown any sign of desiring to give effect to them; the actions of the Baroda State, so far from indicating a desire for total prohibition, throw obstacles in the way of increasing such restrictions as are practically possible, and greater facilities for drinking are afforded in the Gaikwar's territory than are allowed in the British Districts. Within the last few months the Government of Bombay has officially appealed to us to exercise the authority of the Government of India by compelling the Gaikwar of Baroda to withdraw his refusal to raise the duty on spirit and increase the selling price of liquor. The case is still under consideration.

53. One of the objections raised by the Gaikwar's Dewan to the proposal of the Bombay Government that the rates of duty should be raised was that the measure "would compel liquor consumers to resort to illicit distillation, which could not be checked except by largely increasing preventive establishment at heavy cost to their Government." This objection was raised in August 1889, and subsequent to the date on which Mr. Caine had his conversation with the Gaikwar, and certainly affords no indication of an intention to prohibit liquor altogether, a course which would lead to still greater loss of revenue and to heavier expenditure on prevention.

The Excise system of Bengal.

54. Mr. Caine said :—"The worst and rottenest Excise system in the

civilised world is that of India; the worst and rottenest of the various systems of India is that of Bengal." We have already explained the circumstances under which, owing to the growth of illicit distillation under the Central Distillery system, Outstills were, after 1877, extensively re-introduced throughout Bengal. We have admitted that the change was made without sufficient discrimination, and that, coupled with the removal of the restriction on the capacity of Outstills, it led to an increase of drinking. As soon, however, as experience had shown that this was the case, steps were taken to remedy the evil, and there are the strongest grounds for holding that in recent years drinking has decreased and not increased.

55. We shall now give a few figures to show that the Bengal system does not now, and never did, merit the indiscriminate condemnation which Mr. Caine has applied to it.

The number of shops for the sale of all kinds of liquor and drugs in Bengal is shown in the following table for each year since 1870 :—

Year.	Distilled liquor.	Drugs.	Tari.	Pachwai.
1870-71	8,193	15,565	21,670	1,687
1871-72	8,937	16,615	21,689	1,815
1872-73	7,271	17,119	22,351	1,844
1873-74	6,8.2	10,975	22,873	2,006
1874-75	6,152	9,240	19,424	1,863
1875-76	5,294	7,424	19,265	1,661
1876-77	5,183	7,092	18,844	1,677
1877-78	5,267	7,218	19,077	1,717
1878-79	6,751	6,999	19,018	1,739
1879-80	6,878	6,877	21,579	2,066
1880-81	7,369	7,145	25,563	2,034
1881-82	6,874	6,796	30,268	2,135
1882-83	5,634	6,490	30,311	2,159
1883-84	5,740	6,513	20,138	2,259
1884-85	5,502	6,291	19,577	2,168
1885-86	5 208	6,005	19,555	2,162
1886-87	5,310	5,922	19,471	2,195
1887-88	5,112	6,059	19,051	2,157
1888-89	4,539	6,092	18,467	2,203

It will be observed that since 1870-71 the number of shops for the sale of distilled liquor has been reduced by 3,654, or more than 44 per cent.; the number of shops for the sale of drugs has been reduced by 9,473, or more than 60 per cent.; the number of shops for the sale of tari has been reduced by 3,203, or more than 10 per cent.; the number of shops for the sale of pachwai, or rice-beer, has been increased by 516, or more than 23 per cent.

Tari and pachwai are comparatively weak and harmless liquors.

56. Some difficulty is experienced in giving the rates of duty on spirit for different years in a form suitable for comparison, as there is no uniform rate for the whole Province and there have been frequent changes of system, the Central Distillery system and the Outstill system frequently replacing one another. The course of these changes is explained in Appendix H. We shall, therefore, merely attempt to give an outline of the nature of the changes in the rate of duty.

57. The Central Distillery system was introduced into the eleven districts in Bengal comprising the Burdwan and Presidency Divisions in 1861-62; it was extended to sixteen other districts in 1862-63, and to seven more in 1864-65.

In the Burdwan and Presidency Divisions the duty was levied at the

uniform rate of R2-4 a gallon. But it was not found possible to evy the same high rate of duty in the districts in which the Central Distillery system was introduced in 1862-63 and 1863-64; and it was also found impracticable to enforce a uniform rate: while the rate of R2-4 was generally maintained in the Burdwan and Presidency Divisions, and even subsequently increased in many places, in other districts lower varying rates were imposed.

It will be seen from Appendix F that the general tendency was to increase from time to time the rate in all districts. The rates in the Presidency and Burdwan Divisions were doubled in some districts, and more than doubled in others.

In most districts of the Rajshahye Division the rates were also doubled. The same remark applies to the Bhagulpore, Patna, and Orissa Divisions, while the duty has been considerably increased in all districts of the Chota Nagpore Division.

There are three distinct periods in Excise administration in Bengal since 1860, namely, (1) the introduction of the Central Distillery system, (2) the reversion to the Outstill system in the years after 1877, (3) the reversion again in many places to the Central Distillery system in 1885-86 and following years. Up to the time of the abolition of the Central Distillery system the general tendency was towards an increase in the rates of duty, and when the Central Distillery system was re-introduced in 1885-86 the high rates previously levied were again imposed. The highest rate of duty is now R5 as compared with R2-4 in 1861, an increase of more than 120 per cent.

58. During the same period the rate of duty on ganja has been continuously raised from R2-6 per seer in 1870-71 to R8-5 in the present year. Ganja is a drug which is far more injurious in its effects than spirit or than any other drug commonly consumed.

59. The rate of duty on opium varies in different districts. In 1870-71 the selling price was as follows:—

R16 per seer in seven districts;
R18 in one;
R20 in two; and
R22 in thirty-three.

At the present time the rates are:—

R16 per seer in seven districts;
R20 in one;
R22 in one, and in part of another;
R24 in one, and in the remaining part of that just mentioned;
R26 in four;
R27 in five;
R28 in twenty-one;
R30 in one; and
R32 in three.

As the cost of producing opium is about R7 a seer, a rise in price from R22 to R32 represents an increase in duty of nearly 80 per cent.

60. The Chief Commissionership of Assam was formerly a portion of Bengal. It was separated from that Province in 1874, and the figures of number of shops and duty just given refer only to the present Province of Bengal. It will, however, be convenient to indicate in this place what the policy of Government has been in regard to the consumption of opium in Assam, because that policy was initiated by the Government of Bengal. Assam was acquired between 1826 and 1854. The poppy was extensively cultivated in it, and

the population, which was remarkable for its indolence, largely consumed opium. It may be that the excessive dampness and malaria which prevail in Assam make the consumption of opium beneficial in some respects, but the Government of India believed that the extent to which opium was consumed was injurious, and that it would be possible to restrict consumption. The cultivation of opium was consequently prohibited in Assam in 1860, before the Province was separated from Bengal, while the number of shops was gradually reduced and the rates of duty raised.

61. The following figures give the number of shops in Assam for the sale of opium every year since 1868-69 :—

1868-69	4,501
1869 70	4,556
1870-71	4,469
1871-72	4,567
1872-73	5,070
1873-74	3,977
1874-75	3,151
1875-76	2,833
1876-77	1,271
1877-78	1,342
1878-79	1,367
1879-80	1,397
1880-81	1,404
1881-82	1,373
1882-83	1,283
1883-84	1,250
1884-85	1,175
1885-86	1,067
1886-87	999
1887-88	1,067
1888-89	989

The number of shops has been reduced from 4,501 to 989, or by more than 78 per cent. During the same period the selling price of opium has been increased from R14 per seer to R32 per seer, representing an increase in duty of 257 per cent.

62. These stringent measures have not been without success, as, in the Chief Commissioner's Resolution on the Excise Report for 1888-89, it was said :—

"The consumption of opium and the revenue obtained from it have been very steady during the last few years. So far as revenue is concerned, it is the consumption of this drug in the districts of the Assam Valley which brings us three-fifths of the whole Excise revenue of the Province; and seeing that for some years past we have practically obtained the same revenue from the same consumption with apparently very little, if any, smuggling, it would seem that the time has come to raise the question whether the price at the treasury, which has been for some years at its present figure, might not now be increased. It is believed that the habit of opium consumption is becoming less inveterate among the indigenous Assamese, and that the generation now growing up will not be habitual consumers to the same extent as their fathers."

63. With the exception of the extension of the Outstill system, and removal of the restriction on the capacity of stills, which led to an increase of drinking between 1877 and 1884, we consider that the management of the Excise Department in Bengal has been very satisfactory, and we are wholly unable to reconcile the figures for number of shops and rates of duty which we have given with the terms of Mr. Smith's motion that "the fiscal system of the Government of India leads to the establishment of spirit distilleries, liquor and opium shops in large numbers of places where till

recently they never existed, in defiance of Native opinion and the protests of the inhabitants, and that such increased facilities for drinking produce a steadily increasing consumption, and spread ruin and misery among the industrial classes of India," or with Mr. Caine's assertion that "the worst and rottenest Excise system in the civilised world is that of India; the worst and rottenest of the various systems of India is that of Bengal."

Outstills at Tea Gardens.

64. There is one important statement made by Mr. Smith with which we are not in a position to deal fully at present. We refer to the quotation given from a letter received from a Tea plantation. The Excise question in connection with the coolies on Tea plantations is an extremely difficult one. The coolies generally belong to a class which habitually consumes liquor; they have removed from their native country and are employed in a damp, malarious, and unhealthy climate. Under such circumstances their desire for drink is strong, and the facilities for obtaining illicit liquor in the neighbourhood of the gardens are very great. The whole question connected with the liquor question in relation to Tea gardens is being thoroughly inquired into in Bengal and Assam, and when the inquiries are completed, we shall specially address Your Lordship on the subject. In the meantime we may remark that so far as the evidence before us goes, the statements made in the letter quoted by Mr. Smith appear to be greatly exaggerated. The reports on the subject which we have as yet received relate to Assam, and will be found as enclosures Nos. (18) and (19) of this Despatch.

SECTION II.—EXCISE SYSTEMS IN FORCE IN BRITISH INDIA.

65. We shall now attempt to explain the difficulties encountered in this country in dealing with the Excise question, and to set forth the systems adopted with the object of meeting these difficulties.

In Appendix G will be found a memorandum giving a brief description of the various systems of Excise which are in force at the present day in British India. In this memorandum we have grouped together the systems in different provinces which have the same main features in common, although they may be known by different names, and although the system in one province may have had a very different origin and history from that which it has had in another. The remarks in the memorandum apply only to systems for the levy of a duty on spirits manufactured in India. The system applied to foreign imported liquor is practically the same in all provinces. Imported wines and spirits pay the customs duty leviable under the Tariff Act, and licenses for their sale are granted by the several Local Governments, usually on the payment of a fixed fee for the year.

A sketch of the history of Excise in each of the five chief Provinces will also be found in Appendix II.

Impossibility of adopting a uniform system of Excise.

66. The system of Excise which we should adopt universally, if it were possible, is one under which a fixed duty would be levied on each gallon of spirit in proportion to alcoholic strength; this system has been approved for many years both by the Government of India and by the various Local Governments. It is known in its simplest form as the Central Distillery system, because under it all liquor is distilled at a public distillery, centrally situated

with reference to the tract to be supplied, and watched by a preventive establishment appointed by Government. No liquor is allowed to leave the Central Distillery until the duty has been paid.

67. The history of Excise Administration in India given in Appendix H will show that the line of progress has been from the Farming system, which we inherited from the Native States which preceded British rule, towards a system under which each gallon of spirit pays a fixed duty.

68 The earliest system was that of uncontrolled farming; the farmer paid a lump sum for the right to manufacture and sell liquor in a specified tract of country; there was no limit as to number of shops, and he made what profit he could out of his farm. The next step was the limitation of the number of shops. A further step was the establishment of the Outstill, under which only the right to manufacture and sell at a specified shop is granted. The chief objection both to the Farming and Outstill systems, as just described, is that there is no control over the rate of duty per gallon, and, consequently, it may be to the interest of the farmer or licensee to steadily lower prices. It then becomes necessary to consider whether an attempt can be successfully made to establish a system under which each gallon of spirits shall pay a fixed duty. This may be done roughly and imperfectly by limiting the capacity of the Outstill and fixing a minimum rate of duty for the right to work the Outstill. If the Outstill can only produce a certain number of gallons of spirit in the month and must pay a certain tax every month, we know that each gallon of spirit will bear, at least, a certain rate of duty and cannot be sold below a certain price The practical difficulty in the way of securing this result is the facility which the licensee possesses for distilling in a still other than that which has been licensed. This difficulty is in some cases insuperable. A perfect remedy lies in the establishment of a Central Distillery system, but unfortunately the practical experience of years, and the results of many experiments, have shown that it is impossible to maintain this system in all parts of India.

69. Under the Farming and Outstill systems the interest of the monopolist is enlisted for the suppression of illicit distillation, and sources of information and means of detection are available to him which are not accessible to officials. This is not the case under the ordinary Central Distillery system. Under that system it is to the interest of the distiller both to distil illicitly outside the distillery and to smuggle liquor out of the distillery without payment of duty. The shop-keeper and the subordinate officials share the profit. Thus it was proved in the course of a judicial enquiry in the Gya District of Bengal that out of the spirit made at one outlying distillery only one gallon out of three paid duty to Government, the duty on the second being retained by the preventive officer, who allowed the distiller to take out every third gallon free.

The key to the numerous and complicated systems of Excise which prevail in different parts of British India lies in the fact that they are attempts to combine the monopoly and fixed duty systems with the object of securing that every gallon of spirit shall bear a certain rate of duty in places where it is not possible to work the fixed duty system in its simplest form.

Unsuitability of the Central Distillery System for portions of India.

70. We will now state some of the chief reasons which render the Central Distillery system unsuitable in many parts of India.

(1) Where the quantity of liquor consumed is small, the cost of a central

distillery and of an establishment to guard it, and to prevent outside distillation, is prohibitive.

(2) It is found impossible, on the scale of pay which we are able to give, to obtain for those establishments men who are thoroughly trustworthy. In remote tracts where supervision is insufficient they enter into collusion with the distillers and defraud the Government. The Excise Reports abound with statements to the effect that a large portion of the liquor distilled in central distilleries was passed out for consumption free of duty. In places where such establishments and the police are entrusted with powers to detect and prevent illicit distillation, and where the inducements to resort to that practice are great, still more serious evils too often result. The nature of these evils is explained in the following extract from the Report of the Bengal Excise Commission :—

"One, and in the opinion of the Commission the main, reason of this* is not far to seek. Activity on the part of detective officers in Bengal must almost necessarily lead to their stretching the powers given by law to a perilous extent and too often, it is to be feared, to their abusing those powers. The most formidable and unpopular of these is the power of search. When it is considered that, as mentioned above, illicit distillation is most frequently carried on in the inner rooms of houses, it will easily be understood how hateful a zealous detective officer must be to the people of a village, and how formidable his power of oppression and extortion. It is not too much to assert that the evils and dangers almost inseparable from all attempts to put down the illicit manufacture of country spirit by direct preventive measures are as grave as those entailed by the prevalence of the unlawful practice, and the Commission consider that this is a most important factor in the Excise problem. They wish to direct special attention to the subject here, as many of the witnesses who appeared before them seemed to think that the suppression of illicit distillation is merely a question of employing a sufficiently strong detective establishment, and to have overlooked completely the danger of such a force becoming an engine of oppression, worry and extortion more formidable and dangerous to the innocent than to the offenders, particularly in outlying and jungly places, where the supervision of trustworthy superiors would almost necessarily be wanting, and where, owing to the great probability of the existence of illicit practices, the excisemen would have most opportunities to harass and oppress unoffending people. Colonel Dalton, in a report from which an extract has already been made, stated that there was nothing which had set him so much against the Central Distillery system as the number of persons he had lately seen undergoing imprisonment in the common jail for offences against the Excise laws. This consideration appears very much more grave when it is realised that the numbers of offenders actually convicted were in all probability very few in proportion to the number of innocent people who had been worried and harassed in the process of hunting out the breaches of the law. It must never be forgotten that all attempts to limit the consumption of spirit by over-stringent Excise measures must have a tendency to lead to illicit practices; that the same considerations which lead to the restriction of licit consumption make it necessary to take further measures to prevent such illicit practices; and that there is in this a constant source and most serious danger to innocent people. All this, of course, is not an argument against the attempt to regulate consumption, but it proves the necessity of always proceeding in a cautious and tentative manner."

* The sympathy of the people with illicit practices and their unwillingness to assist the officers of Government in detecting them.

(3) Another reason is defective means of communication. Many parts of India are at all times difficult of access, and during the rainy season many more are practically entirely shut off from communication with neighbouring places. In such tracts unless the inhabitants are to be entirely deprived of liquor—a deprivation to which they would not submit, and against which the facilities for illicit distillation furnish them with a powerful protection—it is necessary that the liquor should be distilled on the spot, communication with the Central Distillery being frequently interrupted.

(4) The difficulty of preventing illicit distillation is very great. We have already dealt with this question in paragraphs 20 to 23 and need not say anything

more in this place beyond quoting, from a memorandum by the Chief Commissioner of Assam, passages which show that the circumstances of a tract so considerable as the Province of Assam are such as to render impossible the introduction not only of the Central Distillery system, but of any system which involves the direct control of distillation. In nearly the whole of Assam we must be content with enforcing direct restrictions on the *sale* of spirit, sale to the public being a transaction which cannot be altogether concealed, while distillation may be carried on in secret without fear of detection :—

"12. Now let us look for a moment at the means we have of controlling and restricting the manufacture and use of liquor among the population, that is, the means we have of enforcing any prohibition that we may choose to issue.

"First of all, to what extent may the country itself be considered open or accessible? The following are the statistics :—

Districts.	Settled and cultivated.	Forest and uncultivated.
	Acres.	Acres.
Goalpara (a)	72,000	938,000
Kamrup	688,000	1,635,000
Darrang	362,000	1,826,000
Nowgong	318,000	1,767,000
Sibsagar	609,000	1,217,000
Lakhimpur	279,000	2,104,000
TOTAL	2,328,000	9,487,000

(a) Excluding the permanently-settled portion.

"In short, about four-fifths of the area is covered either with tree or with grass jungle. And this jungle is not confined to one part of the district, but is scattered all through it. The cultivation, in short, is in patches, reclaimed here and there from jungle (and often falling back into it), and, except in some parts of Kamrup, none of it is really far from jungle.

"13. Moreover, the Assam village is not, like the village in Bengal or in Northern India, an aggregation of houses in a single part of the village area, where every man lives within hail of his neighbour. The Assamese loves to bury himself in the privacy of his own domain, and his house is separated from his neighbours by a belt of trees or of bushes. It remains to note that, according to the Census of 1881, the average number of houses to the square mile is 18, and of persons 105.

"14. These, therefore, are the circumstances with which we have to deal,—a sparse population scattered over a country of which four-fifths is jungle, in which every villager surrounds his house with high vegetation, and has nowhere very far to go if he wants to hide himself away altogether from human sight. The drinking classes among them, familiar with the methods of brewing and distilling, continually possessing the materials at hand, and nowhere more than twenty miles distant from places where every householder has for ages brewed or distilled his own liquor and consumed it as regularly as he eats his food. Where is the means under such circumstances of prohibiting or even restraining any man who wants to drink? It seems to me that the most efficient preventive service in the world would find it difficult to attain any success; and unfortunately we have hardly any expectation of finding any but a most inefficient service. We can under present circumstances use the police only, that is to say, looking to the number of policemen available for district duties, one man for every thirty or forty square miles: and as the higher officers of the police belong to a large extent to foreign races, the force is less efficient on this account.

"15. It follows from all this that it is hopeless to establish in the Assam Valley districts any system of Excise administration which in any degree depends upon our ability to prevent or detect illicit distillation. If people want to obtain spirits, they can do so either by getting smuggled spirit from the hills, or by brewing and distilling for themselves by methods with which they are quite familiar, and which are very cheaply and easily available.

* * * * * * * *

"19. The result of all these considerations is that over nearly the whole of Assam only one method of taxing liquor is open to us, *viz.*, that of licensing individual shop-keepers to distil and sell country spirits at specified places. We cannot afford even to impose any restrictions upon their distillation, such as by limiting the size of stills or the hours when they

may be used. The latter restriction we have no means of enforcing, and the former can be easily evaded by setting up a still in some adjacent jungle. It is the selling, and not the distillation, which must for the most part take place in public and can therefore be subjected to control; and our principal means of preventing illicit sale is to make it the licensee's interest that no sale shall take place besides that in respect of which he has paid a fee to us.

"20. Personally, I hold most strongly to the view that the system of a still-head duty per gallon is the only satisfactory method of Excise administration, and that no other system can give us a satisfactory control over spirit manufacture and spirit consumption. But the result of such information as I have been able to gather from officers who have dealt with the problem in Assam and from a perusal of past records, and especially of a recent discussion on this very point, which Mr. Fitzpatrick submitted to the Government of India with his letter of 13th November 1888, is to show that the circumstances of Assam are such that the first conditions of such a system, *viz.*, the possibility of preventing illicit distillation, does not exist. The only area where a Central Distillery system seems to have any chance of success seems to be the central portion of Cachar, and the success of the system there would largely depend upon the possibility of keeping outside the Central Distillery area the spirit distilled under the Outstill system all around it."

The following extract from the report of the Bengal Excise Commission shows how extensively illicit distillation and smuggling prevails in some places under the Central Distillery system:—

"*Positive evidence of the prevalence of illicit distillation in various districts.*—The actual fact seems to be that illicit distillation extensively prevailed in some districts, especially in those in which the mohwa-tree grows, those in which the lower classes of the population use country-liquor extensively, and generally in wild and thinly-populated tracts; and that, on the other hand, it was comparatively rare in towns, thickly-populated tracts, and among populations not given to the use of spirituous liquors. This view is supported by the positive evidence on the subject. In Gya, Baboo Bhup Sen Singh, the Government Pleader, who has an intimate knowledge of the district, stated that there had been illicit distillation under the Central Distillery system, and this was corroborated by Shek Aulad Ali, an Assistant Superintendent of Police with 45 years' experience of the district; by Ray Brahmo Datta, now excise-inspector of the Division, formerly excise-sheristadar; and by Baboo Prankumar Das, excise deputy collector of the district, whose evidence on this point should be referred to. In Patna and Sarun it would seem to have been less prevalent, though there is clear evidence as to its existence in both districts The deputy inspector of schools in Mozufferpore stated that while the Central Distillery system was in force well-to-do people used to distil spirits in their own houses. Munshi Kuldip Narain, sub-manager of Raj Durbhunga, stated that in the Durbhunga district many cases of illicit distillation were heard of previous to the introduction of the Outstill system. Mr. Cameron, sub-divisional officer of Bettiah, stated that there used to be much illicit distillation in Chumparun; and this is corroborated by Mr. Shaw, of Pursa indigo-factory, and other witnesses. In Monghyr the Rev. Mr. Evans and other witnesses give strong opinions as to the improbability of the existence of illicit distillation owing to the ease with which it could be detected; but Mr. Pushong, a witness who has unusual opportunities of knowing the actual facts, stated from personal knowledge that considerable illicit distillation among respectable people had been carried on before the introduction of Outstills; and he added that wherever there is a Central Distillery there will also be illicit distillation and smuggling. This view was strongly represented to the President of the Commission in conversation by Baboo Kamalesri Prosad, a wealthy zemindar, whose father had been for many years engaged in the spirit trade. In Bhagulpore Baboos Surjya Narain Singh, Tej Narain, Tarini Prosad, and others spoke of the existence of illicit distillation in that district. In Chota Nagpore there was much evidence of the prevalence of illicit distillation during the Central Distillery period, but a few examples will suffice. In Hazaribagh the Government Pleader, Rai Jadu Nath Mukerji Bahadur, one of the best informed and most experienced witnesses that appeared before the Commission, said:—'There used to be much illicit distillation under the Central Distillery system, but it has diminished of late. It is the interest of the Outstill-holder to put down illicit distillation. It was the interest of the retailer to sell illicit spirit under the cover of duty-paid spirit, and he was therefore the ally of the illicit distiller when he did not illicitly distil himself. Zemindars and other well-to-do people send their material to Outstills to be distilled. They used to do the same with the sudder distillers but not often." Baboo Navakrisna Roy, police inspector of Lohardugga, has given lists of 54 villages in two thanas of that district in which cases of illicit distillation were detected, and adds that it was known to exist in very many more villages, in which, however, no cases

were detected. The Rev. Mr. Uffman, a missionary who has resided for 17 years in Manbhoom, states that there used to be illicit distillation in that district. In Beerbhoom the Commission obtained a list of 40 villages in which illicit distillation was known to have existed, and some most respectable gentlemen were unanimous as to its prevalence in 31 of these. Some of them, but not all, had heard of the illicit practice in six of the other villages, and none of them knew anything about the remaining three."

(5) Even where there are no special difficulties of communication, it is sometimes necessary that the liquor should be distilled on the spot and not brought from a distant distillery; because in the hot season some kinds of liquor of low strength will not bear transportation. Any measure which would drive the people to the use of a stronger instead of a weaker liquor is opposed to sound principles of Excise administration as we understand them.

A series of extracts from Reports showing the difficulties in the way of adopting the Central Distillery system in many places will be found in Appendix L.

Difficulties in connection with Native States.

71. The state of things to which we have just referred exists within the borders of British India, and the consequent difficulties in enforcing restrictions on drink would arise if the British administration extended over the whole of India. But of the continent of India, a scattered area, interlaced in many places with British territory, amounting in extent to about one-third of the whole, and containing a population of about one-fifth, belongs to Native States, with the internal administration of which in matters of Excise the Government of India does not ordinarily interfere, and cannot in some cases interfere as a matter of right without straining its authority beyond what is safe or justifiable. In all those States the Excise systems were, and in most still are, incomparably more lax than in British territory. The system generally followed in them has been an uncontrolled Farming system with practically no restrictions on the farmer to prevent his unduly diminishing the price of liquor or increasing the number of shops. The consequence is that the cheaper liquor of Native States is constantly smuggled into British territory. The only complete remedy for this evil lies in inducing those States to adopt a stricter system and to impose higher rates of duty; and this the Local Governments have in some cases succeeded in doing in recent years, notably in Bombay and, more recently and to a much smaller extent, in the Punjab. In Bombay the Government has also obtained, at a not inconsiderable cost, the consent of some Chiefs to our officers undertaking the direct management of the Excise administration of their States.

72. The following extracts from a Report by Rao Bahadur Lallubhai Gurdhundas, dated 15th July 1887, indicate the serious nature of the difficulty described in the preceding paragraph. He remarks:—

* * * * * * * * * * * * *

"5. Under this plan of exact taxation, it is necessary to fix the rates of duty for different districts with great care and circumspection. As the amount of duty would govern the selling price of the liquor, and as there is a certain price, varying according to the character, habits, and wealth of the people, which can safely be realised on the spirits consumed by the masses, and which cannot be exceeded with impunity, the duty on liquor ought not to exceed the difference between that price and the cost of the liquor. Even when the people themselves can afford to pay for a moderate and harmless dose a price that would cover the highest rate of duty which Government desire to impose, the possibility of smuggling and illicit distillation is not to be lost sight of in the zeal for enhancing the price of liquor with a view to diminish consumption. Preventive establishments and stringent penal enactments can do a great deal in suppressing illicit distillation, which cannot long remain undetected. But where a liquor

made dear by the imposition of a high rate of duty is confronted by cheaper liquor, to be had for a stroll to an adjacent foreign shop, the whole of the liquor-drinking population for miles round will flock daily for drink to the foreign liquor shop; and experience has shown that Kolis, Warlis, and other low classes addicted to drink will not mind walking 10 miles to a shop and back in order to get cheap liquor; and, what is even worse, quantities of cheap liquor will always be smuggled into the high-priced liquor tract without much fear of detection; in short, the object aimed at of diminishing the consumption of liquor will be defeated. Therefore, in districts which are bordered by or interlaced with foreign territory, the desired result can be obtained only by the same system being adopted and worked consistently in both territories. To this end the co-operation of our neighbouring Native Chiefs is essential to the mutual advantage of themselves and the Government.

"6. Government have experienced comparatively little difficulty in securing the co-operation in this behalf of the Native Chiefs in the Konkan, Deccan, and Southern Mahratta country, all of whom, with a few exceptions, have handed over the management of the abkari of their States to the Government for a term of years on payment of liberal annual compensation; and Government have thereby been enabled, not only to supplant the infamous Farming system of old and to launch with success the new system of the equitable taxation in those States as well as in their own contiguous districts, but also to bring within a short period of three years the Excise rates in the greater portion of the territories concerned to the desired level. The excepted States are those of Kolhapur, Savantvadi, and Janjira, which with equal readiness have adopted the same system and rates on their own account, and have for years past been reaping the fruits of their foresight and prudence in the shape of large progressive profits to the State treasury and improvement in the moral and material condition of the poorer classes—results which are no less conspicuous in the British districts and other Native States brought under the influence of the new system and policy . . . . . .

"7. In Gujarat, on the other hand, opportunity has not yet been afforded to try the same experiment under equally favourable conditions. Consequently, considerably lower rates of liquor excise and selling prices still prevail in that province, while in the contiguous Native States the old detestable Farming system continues to flourish. . . . . A question naturally arises, why has Gujarat, with all these favourable circumstances, lagged in recent years far behind other districts of the presidency in the progress of abkari reform designed to raise the largest amount of revenue from the smallest consumption of liquor? The answer to this question directly points to the obstacle—the absence of sympathetic arrangements and action in contiguous Native States—which the subject of this report is intended to remove. It is needless now to describe here the details of the correspondence carried on during the last eight years with a view to the removal of that obstacle. Happily, the controversy promises to terminate with the acceptance by our Government and faithful observance by the Native Chiefs concerned of the understandings which I shall proceed directly to narrate.

"8. I request you to glance at the map of the Bombay Presidency and to mark the contrast which the situation of British Gujarat presents to that of the rest of the presidency with reference to foreign territory. Barring the Holkar's dominion which marches along the northern frontier of Khandesh for a distance of about 150 miles, and with which no abkari convention has yet been thought of, and barring also the Nizam's dominion which marches along the eastern frontiers of the districts of Khandesh, Nasik, Ahmednagar, Sholapur, Bijapur, and Dharwar almost in a regular line for a distance of about 700 miles, and with which the mutual retirement of liquor shops and stills to a distance of 3 miles on either side of the frontier has just been agreed upon, the rest of the Native territory with which the larger block of the presidency south of Daman is concerned consists of but one first class State and a number of petty holdings of small extent and importance, all imbedded in the midst of British territory. British Gujarat, on the other hand, is, as it were, surrounded by a sea of, and intersected by, innumerable gulfs, creeks, and lakes of foreign territory, which includes the large and important State of Baroda, many other first, second, and third class States, and a number of petty talukas and thakorates, each owned by a separate Chief or Thakor. From this geographical contrast between the two divisions of the presidency, it will readily be seen that the task of forming what for brevity's sake may be called the abkari *voll-ver-ein* must be much more difficult in Gujarat than in the rest of the presidency. The difficulty of the task, which is due to the peculiar configuration and relative situations of British and Native territories in Gujarat, to the great difference in the magnitude, status, and the internal and external conditions of the different Native States to be dealt with, and, above all, to the conservatism of the Chiefs and their sentiments of dignity and rights, has been two-fold: first, to incline all these Chiefs, large and small, to co-operation; and, secondly, to arrange with each the form and terms of co-operation which might be acceptable to the Chief and satisfactory to Government."

73. Further extracts bearing on this question will be found in Appendix D, but we will quote in this place an extract from a letter from the Government of the North-Western Provinces and Oudh, which gives Sir Auckland Colvin's personal experience in the cold weather of 1888-89 :—

"During his march last year throughout Oudh, in no single instance has the Lieutenant-Governor and Chief Commissioner observed a case of drunkenness until he arrived on the Nepal border, when special police precautions had to be taken to prevent the camp-followers obtaining liquor at cheap rates on the Nepalese side of the frontier. In spite of these precautions as soon as the camp reach the Nepal border, men who, in face of the higher price of the excised liquor in our own territory, had hitherto found no opportunities of indulging their appetite, were seen by no means unfrequently in various stages of intoxication along the line of march."

Groundlessness of the charge that our Excise Administration gives greater facilities for drinking than an administration based on principles approved by the Native inhabitants and Native rulers would do.

74. The extracts just quoted and those given in Appendix D have been referred to with the object of explaining the existence of a very serious practical difficulty in the enforcement of Excise regulations in British India. But they also serve another purpose, and prove how groundless are the charges made against the Government of India that any increase in the habits of drinking which has taken place in India is due to the British Excise administration, and that, had the administration been conducted on the principles approved by the Native inhabitants and Native rulers, an increase would not have occurred. It may be true that, in some instances, our Excise administration has not been strong enough to counteract the tendency of other forces and to prevent an increase; but one of the main difficulties in the way of achieving that result is due to the less stringent regulations which prevail in the Native States adjoining and interlaced with British territory. Those States are ruled by Native rulers in accordance with Native ideas; and it is found that until pressure is brought to bear by the Paramount Power to induce them to adopt more stringent regulations, their Excise systems are such as to offer the smallest possible discouragement to drinking and are many times more lax than the laxest of the systems with which the Government of India has been in places obliged to be content, and the existence of which forms the main ground of the attacks which have been made on its Excise policy. In short, the mere fact of a British district being coterminous with a Native State is invariably found to be a serious obstacle in the way of raising the taxation on liquor in that district and of enforcing measures designed to restrict consumption. The only resource in such cases, when it is found impossible to make any satisfactory arrangement with the Native ruler, is to place the tracts affected under the Farming or Outstill system. The amount of revenue obtained in this way is never great, and the restriction on consumption is comparatively slight, but at any rate there is some restriction and the revenue is not wholly lost.

In a note by Rao Bahadur Lallabhai Gurdhandas, dated 19th July 1889, which will be found among the enclosures of the letter No. 9255 of 6th December 1889 appended to this Despatch, a comparison of the Excise arrangements existing in the Native States of the Bombay Presidency with that in the neighbouring British districts is made. The general assertion made in this paragraph is there proved by statistics to be true in regard to those particular Native States. The figures in that note show conclusively for each State

included in the examination that the number of shops per square mile is larger, that the average population served by each shop is smaller, and that the consumption per head is greater than in the adjoining British districts, and this is the case in spite of the fact that these States have been induced by the Bombay Government to adopt a system which is far more strict than that which formerly prevailed in them.

Reasons for the existence of many different systems.

75 The examination of the history of the Excise administration given in Appendix II will show that the tendency has always been towards the general introduction of the Central Distillery system, and that partial reversions towards a more primitive and less satisfactory system have either been temporary and experimental, or have arisen from the fact that the introduction of the Central Distillery system had been carried too far.

76 It was between 1860 and 1864 that the Central Distillery system was generally introduced into Bengal and the Upper Provinces of India.

In the Province of Bengal it was found necessary to abandon the Central Distillery system in a few places very shortly after it was introduced. It was also found that the high uniform rate of duty could not be enforced in all places where the Central Distillery system was maintained. The choice, therefore, lay between a low uniform rate of duty and a scale varying from place to place. The latter alternative was adopted. The subsequent substitution on an extensive scale of the Outstill for the Central Distillery system after 1877 was not made without cause. The objections to the Central Distillery system were obvious and it was hoped that certain advantages, such as the suppression of fraud, of illicit manufacture and smuggling, and a consequent increase of revenue would be obtained. These advantages were actually secured, but the change was accompanied by the removal of the restriction on the capacity of outstills, and an increase of drinking followed which has rendered it expedient to return to the Central Distillery system where practicable, and to impose various restrictions on the Outstill system where it must be retained.

77. In the North-Western Provinces certain tracts had to be removed from the operation of the Central Distillery system, and though the uniform rate of duty has been retained this has only been rendered possible by fixing the rate at a comparatively low figure, and increasing the numbers of shops so as to reduce the temptation to illicit practices.

78. In the Punjab, the Central Distillery system has been introduced and, with two trifling exceptions, maintained throughout the Province; the rate of duty is high, and it is practically uniform; on the other hand, illicit distillation and smuggling are more common than in any other Province, and the number of shops for the sale of liquor has been increased, though there is still only one shop for the sale of liquors of all kinds to nearly 10,000 of the population.

79. In 1878 the Central Distillery system was generally introduced in Bombay, but it was found necessary that it should be accompanied with the grant of monopolies and with a "minimum guarantee," the amount of the guarantee being fixed by competition. The system of a "minimum guarantee" fixed by competition is now being altered, as it was found to be open to objection in some respects.

80. In 1869 the Central Distillery system began to be introduced in Madras. It was accompanied with various conditions and special provisions

and has since been extended to nearly all the districts of the Presidency, having now developed into a system which is almost the Central Distillery system in its simplest form, and with a high rate of duty. The success of the system adopted in Madras is, however, accompanied by a large number of shops.

81. The various systems of Excise in force in British India are described in Appendix G. It would be a fruitless task to attempt to explain, in every instance, to English readers, the minute local peculiarities which render it necessary to have recourse to each system. All the systems, other than the ordinary Outstill and Farming systems, have a common object, namely, to render it possible to impose a fixed rate of duty on each gallon of spirit that passes into consumption, and in this respect they are improvements on the Outstill or Farming system.

82. Though we cannot undertake to explain fully the special reasons which lead to the local adoption of each system, we will try to make it clear why one system was adopted which has been loudly attacked on plausible grounds.

We refer to the "minimum guarantee" system which in recent years has prevailed extensively in Bombay.

Under this system the monopoly of sale and manufacture is granted to the person who undertakes to pay duty on the greatest number of gallons of spirit, and of course any such system is open to attack on the ground that it offers a direct incentive to attempts to increase the consumption of spirit. We shall show hereafter that this objection, though not without force, is theoretical rather than practical; but in the first instance we will set forth the considerations which have led to the introduction of such a system, considerations of a very different character from a mere desire to increase revenue by stimulating consumption.

83. The difficulties which render it impossible in certain tracts to maintain the Central Distillery system have already been stated in paragraph 70.

These are, briefly,—(1) the expense relatively to the amount of revenue to be collected, (2) impossibility of securing a trustworthy preventive establishment, (3) defective means of communication, (4) facilities for illicit distillation, (5) deterioration of liquor in transport, and (6) smuggling from foreign territory.

It will be obvious that these difficulties are, to a very large extent, obviated if a Farming or Outstill system be adopted. Under such a system (1) expense is reduced to a minimum, as a comparatively costly central distillery, with an establishment to watch it, need not be kept up; (2) a large preventive establishment (with its attendant risks of collusion with the distiller and oppression of the people) is no longer necessary, because the grant of a monopoly enlists, from strong motives of personal profit, the distillers and shop-keepers, with all their local knowledge, on the side of prevention; (3) the difficulties arising from defective communications are obviated, because the liquor can be distilled on the spot where it is consumed; (4) illicit distillation is checked by enlisting the local knowledge of the shop-keepers on the side of prevention; (5) the liquor can be distilled on the spot and the risk of deterioration in transport is avoided; and finally (6) smuggling from foreign territory is reduced to a minimum, because the monopolist can reduce the price of his liquor so as to exclude smuggled liquor, which must be imported from a distance and which is also handicapped by the risk of detection.

Against these advantages must be set certain evils which attend the introduction of the Farming or Outstill system, and which in many cases

would be more serious than those which it is desired to prevent. The chief of these is that the price of liquor may be greatly reduced. The object of the monopolist is simply to make the largest possible profit, and in many cases it will happen that the maximum of profit will be secured by a large sale at low prices rather than by high prices with a restricted sale. A check may no doubt be applied to this evil by fixing a minimum rate for retail sales, and limiting the capacity of the outstill, but the effective maintenance of regulations of this nature requires a strong preventive force, and in some places the enforcement of a minimum price for retail sales and the prevention of distillation in any but the licensed still are practically impossible

84. In the circumstances described in the preceding paragraph the question naturally arises, whether it is possible to combine the advantages of the Farming or Outstill system, which may be described as the monopoly system, with those of the Central Distillery, in such a way as to prevent the sale of liquor at very low rates. This result, it was supposed, could be attained in certain tracts by granting a monopoly of manufacture and sale coupled with the conditions that the farmer shall guarantee a minimum payment by way of duty, that he shall distil only at a central distillery, and that he shall pay a fixed duty per gallon of liquor issued from the distillery. Such a system is suitable only where the chief difficulties to be overcome are illicit distillation on an extensive scale and the evils connected with preventive establishments.

85. An arrangement under which the monopoly of sale and manufacture is granted to a single person, who is required to distil in a central distillery, and to pay a fixed duty per gallon, obviates the risk of illicit distillation by the general public, but it offers to the monopolist the temptations which exist under the ordinary Central Distillery system—(1) to distil illicitly on his own account outside the central distillery, and (2) to enter into collusion with the preventive establishment to pass liquor out of the distillery without payment of duty. As a remedy the further condition of a "minimum guarantee" is imposed, or, in other words, the monopolist is required to pay duty on a certain quantity of liquor whether he can sell that quantity or not. If he sells more than the guaranteed quantity he pays duty on the excess; if he sells less he is obliged to make up the duty to the amount of the guarantee.

86. It will be obvious that if the amount of liquor on which duty is guaranteed is about equal to the amount for which there is a demand, there is no risk of illicit distillation with the connivance of the monopolists or of liquor being passed out without payment of duty. Until the amount guaranteed has been made up there is no profit to be made either by illicit distillation or by removing liquor without payment of duty, and if the amount guaranteed is not greatly less than the normal demand, the profit to be made by illicit dealings is not sufficient to induce the monopolist to run the risk of violating the law.

87. Unfortunately very great difficulty, especially at first, was experienced in determining what was the normal demand, and it was found necessary to determine by public competition the amount to be guaranteed, the monopoly being granted to an approved tenderer who undertook to guarantee the maximum quantity.

This condition is open to attack, since it may be said, with some reason, to make it the interest of the monopolist to stimulate the consumption of liquor. The objection, however, has less practical weight than might at first sight be supposed. As the number of shops is limited the monopolist could not increase consumption by multiplying shops, and as he paid a heavy duty

per gallon he could not reduce the average price of his liquor below the rate of duty *plus* cost of production, &c. The incidental attractions of lighting and so forth, employed by public houses in England to increase the number of their customers, are not available in India, and, so far as we can see, the only effective method by which the monopolist could stimulate consumption was by raising the price of liquor where the demand for it was strong, and by lowering it in places where a reduction in price was accompanied by a more than equivalent increase in consumption, the average price, as above explained, being in this way maintained.

88. But it might, and would no doubt occasionally, happen that under a system regulated by public competition the tenderer would guarantee duty on a larger quantity of liquor than he could sell at a rate per gallon not below that required to give him a profit, and in such case he would be under a strong temptation to diminish the loss on his contract by reducing the price of liquor below what it cost him, including duty, in the hopes that increased sales would diminish the excess payment under the guarantee. At any rate the Bombay Government was satisfied that the minimum guarantee system, the amount guaranteed being determined by competition, was open to such strong objection, that in the two districts of Thana and Kolaba they substituted, experimentally, a system under which the monopoly was granted to the person who undertook to pay the highest rate of duty per gallon, in excess of a stated minimum, on all spirit manufactured and sold by him. This system removed all ground for the accusation that it was made the special interest of the monopolist to stimulate consumption; but in other respects the results were disastrous. The rate of duty fixed in this way by competition was so high that a great impulse was given to illicit distillation, and as the monopolist was under no obligation to take a minimum quantity, he was not specially interested in preventing smuggling, and confined himself to selling what liquor he could at a very high price, leaving those who could not, or would not, pay his price to provide themselves with liquor by illicit means. The facts connected with this experiment were reported to Your Lordship in our Despatch No. 340, dated 22nd October 1889, but for facility of reference we have reprinted as Appendix E the account of the experiment given in a memorandum received from the Bombay Government and forwarded to Your Lordship with that Despatch.

89. On recognizing the failure of the experiment the Bombay Government directed that in future the amount to be guaranteed should be fixed by the Collector of the District and not determined by competition, and that the monopoly should be given to a person approved by the local authorities. We trust that this system may be so successful as to justify its permanent and wider adoption, but it is obviously open to the objection that it may lead to charges of favouritism being brought against the local authorities, and it may produce a loss of revenue if the monopolist can succeed in concealing the total amount of the liquor manufactured and sold by him, and in this way secures a low "minimum guarantee" which makes it profitable for him to run the risk of illicit distillation and smuggling on his own account.

We are, however, satisfied that no system can as yet be devised which will be absolutely free from objection, and we must be content to adopt that one to which fewest objections can be made.

90. We fear Your Lordship may think we have dealt at undue length with questions connected with the minimum guarantee system, but we are anxious

that some of the difficulties which we have to encounter and of the measures adopted in order to meet them should be set out at length. We have in fact only dealt in an imperfect manner with one branch of the Excise administration of a single Province, and our remarks are necessarily neither as full or complete as if the question had been dealt with by the Local Government concerned. No slight advantage of the introduction of the system of minimum guarantee lies in the fact that under this system it becomes possible to insist on proper distillation and the use of the best apparatus, with a consequent improvement in the quality of the liquor offered for sale.

91. What we have already said will, we trust, be sufficient to satisfy an impartial mind that the local authorities in India have great difficulties to meet, that they are doing their best to overcome them, that the numerous systems of Excise which prevail locally in British India have been adopted with legitimate and praiseworthy objects, and that rash interference with the Excise Administration of India might be productive of great evil. We do not claim that the Administration is perfect; we acknowledge that mistakes have been made, and that experiments have failed, but we need hardly say that we have no desire to establish different systems merely for the sake of avoiding uniformity, and it may be taken for granted that there must be reasons, of greater or less weight, for such diversity of practice as we have shown to prevail in India. A simpler and uniform system would be more easily worked, and could be more readily understood, and would thus obviate much misapprehension and criticism. Unfortunately the circumstances do not permit of our adopting such a system.

Section III.—Objects and Principles of Excise Administration.

Raising of Revenue and Regulation for purposes of Police.

92. It will be admitted that among the legitimate objects of a system of Excise are included the raising of revenue and the regulation of the trade in liquor for police purposes. These are the undoubted and, from an historical point of view, probably the primary objects of such a system. It was at a later stage that it was recognised that the regulation of the trade in liquor for the purposes of revenue and police might with advantage be so conducted as to discourage any tendency to drink to excess, and to lead to the substitution of wholesome or comparatively harmless liquor for that which was positively noxious. Up to the present time, however, there is no general agreement of opinion regarding the measures which may properly be taken by a Government for these purposes.

93. In India no special difficulty is experienced in regulating the Excise system for purposes of police, and such minor difficulties as arise in this connection are due rather to the want of an efficient agency to ensure that prescribed rules are duly observed than to any difference of opinion as to what these rules should be.

In respect of the realization of revenue, the principle to which we have given our adherence, and which has been generally adopted, is to impose as high a tax as may be possible without giving rise to illicit practices; this principle is, of course, subject to such limitations in practice as special circumstances may justify.

No general agreement regarding the extent to which Government should go in the direction of restricting the consumption of stimulants or narcotics.

94. So long as we confine ourselves to police and fiscal considerations we

deal with questions regarding which the functions of Government are defined with sufficient clearness and unanimity; on the other hand, when we endeavour to introduce an Excise system with the object of modifying the habits of the people in regard to drinking, we are confronted with complicated moral and social problems, any solution of which is impeded by obstacles both of a theoretical and of a practical nature. It is owing to an alleged failure to discourage drinking that the Indian system of Excise has been attacked, for, though it has been asserted that we especially encourage drinking for the sake of revenue, we understand this to be merely a mode of expression used for rhetorical purposes with the object of putting in a striking form the charge that, owing to our wish to increase the revenue, we do not go as far in discouraging drinking as we ought, or as those who make the accusation think we ought. Every Excise system in force in British India does, at any rate in some degree, check drinking, inasmuch as it limits the number of places at which liquor may be purchased, restricts sale within certain hours, and raises the cost of liquor by imposing a duty on it.

95. It will be obvious that when we are charged with not sufficiently discouraging drinking a wide door is opened for difference of opinion and profitless discussion so long as there is no general agreement as to the extent to which it is possible and expedient to go in this direction. The entire prohibition of the use of stimulants and narcotics (if it could be carried out) would be the most effectual means of preventing the evils which undoubtedly result from their excessive use. And there are some who advocate this extreme measure. But we are of opinion that the evil to be prevented is not of sufficient magnitude to call for, or justify, any such interference on the part of Government, and that the remedy might be attended with evils even greater than those which it was intended to prevent. It may, not unreasonably, be argued that, as a rule, people are able to decide for themselves what habits are beneficial or the reverse, and absolute prohibition would by many be regarded as an intolerable interference with the liberty of the subject.

Prohibition impossible in India, even if desirable.

96. If, in disregard of the considerations just stated, it were decided that it was expedient to attempt entire prohibition, the question would arise whether it would be possible to enforce it. Whatever might be the answer to this question in regard to such a country as England, we have no hesitation in saying that for India the answer must be in the negative. The facilities for manufacturing and obtaining spirits are so great, and the desire of many classes for stimulants so strong, as to forbid any hope that universal prohibition could be enforced. A law so much at variance with the stronger laws of habit and desire would in some cases merely create a contempt for law and a spirit of lawlessness in large classes of the population. We are not prepared to say that the use of stimulants in moderation is harmful, and total abstinence, due simply to the impossibility of obtaining liquor, and lasting only so long as that impossibility could be maintained, would, in our opinion, be far less satisfactory from every point of view than moderation in the use of stimulants due to conviction and enforced by public opinion.

97. It has been alleged that no Native of India uses stimulants in moderation, that he either abstains altogether or drinks to excess and for the purpose of producing intoxication. This assertion, though not without foundation in reference to certain classes, is of far too sweeping a character when applied to

the whole population of India. On this subject the Government of Bengal uses the following language :—

"The Lieutenant-Governor considers that he should not in this report pass over without remark the observation in Mr. Smith's speech that among the native population 'there is no such thing as a class of moderate drinkers, though there may be a few educated Natives who have adopted English habits. A Native, if he drinks at all, drinks to get drunk and he drives hard bargains with the publicans for the purpose.' Sir Steuart Bayley's experience of Bengal, and especially of Behar, where the drinking population is the largest, enables him to assert confidently that Mr. Smith has been misinformed on this point. It is not the case with the great bulk of the lower classes, who habitually use stimulants, that they drink only for the purpose of intoxicating themselves."

The same opinion is expressed by Mr. Mackenzie, the Chief Commissioner of the Central Provinces :—

"Whatever may be the case elsewhere, it is quite incorrect to say that a Native of these Provinces, who is in the habit of drinking country liquor, 'drinks only to get drunk.' As was noticed in paragraph 17 of this Administration's letter No. C—50, dated 24th September 1888, the extreme weakness of the spirit which is manufactured from mohwa by the kullars of these parts is a fairly effective check upon excess. Spirituous liquor, which is from 70° to 80° below London proof, must be consumed in inordinate quantities before intoxication supervenes: and except on festal occasions the kullar's customer is content with his glass. In fact, the only class of Native of these Provinces in respect of whom the accusation that drink is taken for the purpose of getting drunk is not a libel is, in the Chief Commissioner's opinion, the numerically small, but more influential section who have so far adopted European manners as to have cultivated a taste for English spirits. Generally throughout India it is the growth of intemperance in this class that has given rise to the complaints of Native reformers like Keshub Chunder Sen, and has seemed to give point to the charge that drinking habits are extended in India under British Administration."

Local option impracticable.

98. A consideration of the arguments just referred to, as well as of others which we need not here specify, has convinced us that absolute prohibition, and what is known as local option, are both out of the question in India. A system of local option would throw the whole administration into confusion and would in some places create an intolerable class tyranny which might have very serious political effects. We doubt greatly if a Sikh community would quietly submit to the total prohibition of liquor by a Muhammadan majority, and we believe that in some tracts local option would lead to the indefinite multiplication of liquor shops and the reduction of the rate of duty to a minimum. We have already dealt with this question at some length in our Despatch to Your Lordship, No. 157, dated 25th May 1889. As was stated in that Despatch, any system of local option presupposes the existence of a highly developed system of local or municipal institutions to which representatives are elected by the mass of the people, and in which all conflicting interests command their due share of attention. No such system exists in India.

Difficulty of ascertaining public opinion on the question of drink.

99. Putting aside the question of local option, the difficulties even in the way of ascertaining what public opinion on the question of drink really is, and of determining the amount of deference that may reasonably be paid to it, are very serious. The widest divergence exists both in respect of the extent to which the habit of drinking is practised and of the degree of disapprobation with which it is viewed, and it is difficult to determine what meaning to attach to public sentiment on the question of drinking in a locality where one portion of the community regards drinking as a social, or even religious, duty, while another portion regards the consumption of spirits in any form or quantity as a positive sin.

100. At one end of the scale there are the Muhammadans and some of the higher castes of Hindus, whose religion forbids them to consume spirit in any form. This religious precept is largely, but not by any means universally, observed by these classes, and the obligation imposed on them by caste or religion to abstain from drink has undoubtedly been weakened where English education has made progress, and European habits and modes of thought been adopted to a greater or less extent.

At the other extreme there are classes who not only habitually drink whenever they are able to do so, but, in some instances, consider the consumption of liquor as a part of their religion. The following extract from a report dated 3rd October 1888, by the Deputy Commissioner of Darjeeling, illustrates this aspect of the question :—

"In the case of all these people, with the doubtful exception of Brahmans and Khas both of whom profess to abstain from intoxicating drinks after marriage, the constant use of strong drinks is favoured by hereditary tendencies and enforced by social usage and religious prescription. Many of them have imperfectly accepted the mere externals of Buddhism or Hinduism; but the working religion which underlies these holiday creeds and really affects their daily life is the confused superstition which Sir John Lubbock calls Shamanism, and Tiele and other continental scholars are beginning to describe as Animism. Neither name is particularly happy. For our present purpose, the main feature of the Shamanistic belief is that men are surrounded by an infinite number of supernatural beings, spirits of hills, forests, rivers, diseases, ancestral ghosts, departed medicine men, and the like. These beings are active in ill-doing. They require incessant propitiation, and they love nothing so well as strong drink. This is offered in an earthen pot, or a hollow bamboo chunga. A scanty libation is poured on the earth, and the remainder, along with eatable offerings, is afterwards consumed by the worshipper. Whether the taste for liquor gave rise to this practice, or the religion developed the taste for liquor, it would be fruitless to inquire. The point is that the practice forms an essential part of the ritual of the household and family gods in the tribes and castes I have named, who make up quite 80 per cent. of the population of this district. The same obligation is recognised with equal force at marriages and funerals; and the Deputy Commissioner constantly receives petitions for leave to get in large quantities of liquor for use on these occasions."

In August 1881 the Chief Commissioner of Burma wrote as follows :—

"The Karen race have more or less generally been allowed to distil spirit without duty at stated times of the year. The alleged reason for the concession was that the custom or cult of the Karens requires them to offer sacrifices of spirit to the 'nats' (spirits or demons) whom they had to propitiate. In reality all the spirit thus brewed is drunk by the Karens; but the custom is, to their minds, hallowed by long use and by religious feeling. Recently effort has been made to curtail this privilege among Karens of the more settled tracts, because the license of free distillation was said to be debauching the Karens and also impairing the Excise revenue. Representations have been made against the withdrawal of an old privilege; and these representations are in some instances supported by European officers who serve among the Karens. The tribes themselves aver that the 'nats' require home-made spirit, and will not accept sacrifices of liquor issued from the licensed distilleries."

Many passages of a similar character might be given from reports which refer to other parts of India. A selection from such passages is printed in Appendix B to this Despatch.

101. Between the two extremes to which we have referred there exist in India classes of all shades and degrees of opinion and practice in regard to the habit of drinking, for whom drinking is neither enjoined nor absolutely forbidden by their religion. For example, the Sikh religion permits drinking, and many classes of Hindus, of some standing in the social scale, are not forbidden to drink either by caste rules or custom, and do in practice resort to the use of stimulants in a greater or less degree. In addition to the numerous classes, falling under this intermediate head, whose religion and opinions are of an origin independent of European influence, there are also the Europeans, the Eurasians, and the Native Christians, whose habits and opinions must be considered in framing Excise regulations.

In many places these classes live side by side, and restrictions on drink which would be viewed as beneficent by one class would be considered by others to be tyrannical, while it is obvious that an Excise system, which might be suitable for, and approved by, one of these numerous classes, would be unsuitable for the majority of the other classes.

For Muhammadans and Hindus of certain castes no special restrictions are necessary in order to discourage drinking. The habit is opposed to their religious principles and is discountenanced by the public opinion to which they are subject. It is no doubt true that some Muhammadans and some Hindus, for whom drink is forbidden by their religion, do drink secretly or openly, but this is either because they choose to disregard in this respect the principles of the religion which they profess, or because they have adopted Western habits and modes of life. In such cases any restrictions that Government could impose would be of infinitely less force than those which have been already disregarded.

On the other hand, almost all Europeans and Eurasians and many Natives of India, especially the aboriginal tribes, would regard severe restrictions on drinking as an unnecessary and tyrannical interference with their modes of living. Such restrictions would be frequently disregarded by these classes and would provoke a spirit of opposition, the strength of which is ignored by those who favour prohibition, whether enforced universally by Government, or locally and partially through the means of local option.

102. The considerations we have stated point to the conclusion that it is not merely impracticable and impossible to prohibit the use of stimulants in India, or to introduce a system of local option, but show also that it is impossible to introduce any Excise system that would be equally well adapted to all classes of the population of India and would be in complete accord with such public opinion as may be said to exist in different parts of the country. Nor could distinct and separate systems be applied to each of the several classes described or to groups of them. These classes are not distributed simply with reference to geographical considerations. The inhabitants of some districts are no doubt more given to the habit of drinking than those of others; but many of the varying degrees of disapprobation of the practice of drinking are represented in every district; and everywhere, or almost everywhere, there are both people to whom drinking is forbidden by their religion and also people for whom it is permissible and who do as a fact drink more or less whenever they can afford to do so. Any Excise regulations which could be adopted for a particular locality must necessarily fail to be suitable and acceptable in respect to at least some portion of the inhabitants.

Policy of the Government of India in matters of Excise.

103. Looking to all the conditions of the very difficult problem with which we have to deal, we have, after careful consideration, arrived at the conclusion that the only general principles which it is expedient or even safe to adopt are the following:—

(1) that the taxation of spirituous and intoxicating liquors and drugs should be high, and in some cases as high as it is possible to enforce;

(2) that the traffic in liquor and drugs should be conducted under suitable regulations for police purposes;

(3) that the number of places at which liquor or drugs can be purchased should be strictly limited with regard to the circumstances of each locality; and

(4) that efforts should be made to ascertain the existence of local public sentiment, and that a reasonable amount of deference should be paid to such opinion when ascertained.

These are the principles which have been laid down for the guidance of local authorities by the Government of India in the past, with the single exception that the arrangements for ascertaining public sentiment were imperfect and not authoritatively imposed.

104. The omission to lay down positive orders of universal application regarding the deference to be paid to popular sentiment in particular places was not due to oversight. The question had been considered more than once, and notably by Lord Northbrook's Government, in 1874; but the difficulties surrounding the whole subject were so great that it was deemed inexpedient to issue general orders at that time, and the matter was left to the discretion of the Local Governments which were necessarily in the best position to say what rules were required or could safely be followed. The steps we have recently taken in the direction of providing that public opinion shall be consulted have already been explained in our Despatch No. 157, dated 25th May 1889, and Your Lordship has approved them in Despatches No. 67, dated 18th July, and No. 113, dated 21st November 1889. The following is a copy of the instructions which we have issued :—

"2. It will be observed that, in the opinion of the Government of India, the best method of ensuring that due regard shall be paid to local public opinion in the matter of licensing liquor shops consists in the issue of appropriate instructions to the officers to whom the Excise administration of districts is entrusted. The Government of India do not consider that it would be useful at present to issue any general instructions on the subject applicable to all provinces, but desire that the several Governments may give the matter careful attention, and after consideration of the measures in force and the experience gained in other provinces, as described in the enclosures of this letter, take such steps to secure the object in view as may seem suitable. The Government of India are inclined to think that the procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and directions have been issued that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops, might be generally followed with advantage. But having regard to the varying conditions of different provinces, it has been thought desirable for the present to leave to Local Governments full discretion to decide what measures are expedient in each case."

We have found it necessary merely to indicate the general line of policy to be followed in this matter, leaving the Local Governments at liberty to carry out that policy in the manner which, with reference to local conditions, seems likely to secure the most satisfactory results.

105. The practical measures which we propose to adopt in future in furtherance of our declared policy comprise (1) the abolition of the Farming or Outstill system in places where it is found practicable to do so, (2) the gradual introduction of the Central Distillery system in its least complex form, (3) the imposition of as high a rate of duty on country liquor as it will bear, subject to the limitation that such duty shall not exceed the tax levied on imported liquor, and (4) the restriction of the number of shops. Where the Outstill system is retained we shall, as far as possible, enforce the limitation of the capacity of the still, and in some instances a minimum selling price.

We do not anticipate that the carrying out of this policy in a rational manner and with reasonable regard to the circumstances of the country will lead to any loss of revenue. On the contrary, we believe it will be as successful from the financial as from every other point of view.

APPENDIX G.

DESCRIPTION OF THE VARIOUS SYSTEMS OF EXCISE IN FORCE IN BRITISH INDIA.

1. Before the advent of British rule the limitations imposed on the manufacture and sale of liquor, when occasional and limited attempts at total prohibition in a few places had proved unsuccessful, were devised with the sole object of raising revenue and without any design of regulating or controlling consumption. And it may be stated with complete, or almost complete, accuracy that the system in force was that of farming, the right of manufacture and sale being given to the highest bidder and no restriction being placed on the number of shops or their position. Under British rule attempts were made to modify and improve the system, but the measures adopted to introduce the desired regulation and control were worked out in each province separately with reference to local peculiarities, and by officers having as a rule only local experience, and possessing no knowledge, or only a very general knowledge, of what was being done in other provinces. The result has been to bring about many shades of difference in systems bearing a general resemblance and, in not a few cases, to cause different names to be applied to systems identical in all essential particulars, while sometimes the same name has been given to systems which differ in not unimportant respects.

2. For practical purposes the spirits consumed in India in the present day may roughly be divided into three classes—(1) Imported spirits, (2) Country spirits, and (3) Spirits manufactured in India after the "European method." "Country spirits" include spirits manufactured in India by the rough and careless methods which have long prevailed. Spirits manufactured after the "European method" are spirits manufactured in India as carefully as spirits are manufactured in Europe. The distinction is one which it is not easy to draw in all cases, but it has been found convenient to maintain it, because the more carefully manufactured spirits, ordinarily consumed by a wealthy class, can be made to bear a higher rate of duty.

3. The numerous systems applicable to country spirits may be divided into two main groups:

(A) Those under which a fixed duty is levied on each gallon of spirit manufactured and issued for sale.

(B) Those under which the tax is not thus directly proportioned to quantity, but is levied in the gross by payments the amount of which is usually fixed by competition.

The general designation for the first group is the Central Distillery system and of the second group the farming and outstill system.

The Central Distillery System.

4. The system to which the name of "Central Distillery" was first applied, and perhaps the simplest form of the group, is one under which a central distillery is maintained by the Government, and any approved person is allowed to set up a still in the building and to manufacture spirits under the supervision of the officials attached to it: the distiller pays the fixed duty on each gallon of manufactured spirit which he passes out of the distillery: in addition to the duty, which varies in different provinces and districts, the distiller is usually required to pay a rent for the use of the building, or a small fee to cover the cost of the building, and establishment: no monopoly of manufacture is created, and the right to manufacture is kept distinct and separate from the right to sell.

5. A Central Distillery system of this character is in force in Lower Bengal, the North-Western Provinces and Oudh, and the Punjab; also in Burma where, however, it is applied only to spirits manufactured after the "European method." This system is, in all essential points, and as nearly as may be, the same as that which prevails in Great Britain.

6. The same system is in force in the Central Provinces, with this difference that the fixed duty is levied not on the quantity of manufactured spirits, but on the quantity of material used for distillation. This difference in the mode of calculating the duty, though not necessarily in the duty, is due to the fact that it is considered easier to ascertain the quantity of material than the quantity of spirit, which being less in bulk is more easily smuggled, and also to the fact that practical difficulties are experienced in testing, and securing an accurate record of, the strength of the spirit.

7. Under the system just described the number of shops and the precise locality of each shop are fixed by the district authorities. The sale of liquor at any place other than these shops is forbidden. License fees are charged for the right to sell at the shops, of which the number has been limited as above stated. The method of levying those fees varies in the

provinces named and in different portions of the same province. The fees are in some places fixed annual or monthly amounts, in others the amount is determined by competition at auction or by tenders. The shops are generally disposed of separately, but occasionally they are disposed of in groups for certain areas. The strict limitation of the number of shops causes the right of sale at a shop to be in many cases a source of large profit, and the right of sale is consequently disposed of by competition to approved persons, because in no other way could that profit be obtained as revenue for the State.

The "Free Supply" System of Madras.

8. The system known by the somewhat misleading name of the "Free Supply" system which prevails in Madras is very similar to that just described. Under it the right of sale and of manufacture are kept distinct, and no monopoly of the latter is granted, while the regulations regarding sale are as stated in paragraph 7 of this Appendix. It differs from the ordinary Central Distillery system in that no distillery is maintained by the Government. Any respectable person is allowed to establish a distillery of his own on payment of the prescribed fixed fee, and in it to manufacture liquor under the supervision of excise officers.

9. This is the system which now prevails in the greater portion of the Madras Presidency, where it is being extended and, where it is being worked with great success from every point of view. The term "Free Supply" is applied to it in order to give prominence to the fact that a licensed shopkeeper may obtain his supply of spirits from any distiller, whereas under the superseded systems each shop was required to draw its supply of liquor from a particular distillery.

10. In the town and island of Bombay both the ordinary Central Distillery system as described in paragraph 4 of this Appendix and the Madras "Free Supply" system are in force, the former being applied in the case of spirit distilled from toddy and the latter in the case of spirit distilled from mohwa.

The System of Monopoly Supply.

11. The Madras "Monopoly Supply" system resembles those described in paragraphs 4 and 8 of this Appendix in keeping the right of manufacture and of sale distinct and in the regulations regarding sale, but differs from them in that a monopoly of the right of manufacture for the supply of a certain area is granted. The grant of the monopoly is determined by tenders; the rate at which the manufacturer is to supply liquor to the licensed vendors is fixed, and the monopoly is given to the tenderer who agrees to pay out of that charge the highest sum to the Government as still-head duty. The monopolist distils in his own private distillery as under the system described in paragraph 8. This system now prevails only in a few districts of Madras.

The Guaranteed Minimum System.

12. The next form of the Central Distillery system which we shall describe is that which has lately been introduced in the greater portion of the Bombay Presidency, though modifications of importance are now being made, which are likely to be made applicable universally. Under it, the right of manufacture and of sale are disposed of together, being granted to a monopolist for a district or smaller area: the monopolist is required to manufacture in a distillery maintained by the Government under the supervision of the excise establishment, the cost of which he is required to pay: on each gallon of liquor issued from the distillery he pays the fixed duty prescribed for the district: the number and locality of the shops at which he may sell the liquor he manufactures are fixed: and limits for the retail prices to be charged at those shops are fixed by the Government: the grant of the monopoly is in most districts determined by tender, the subject of tender being the number of gallons on which the tenderer will undertake to pay still-head duty: the successful tenderer is required to pay the still-head duty on that number of gallons in any case, and on any number in excess of that which he may actually issue.

13. This system is in force in Ajmere as well as in most of the Bombay Presidency. It was also in force for several years in a large part of Madras, but it has now been superseded there chiefly by the system described in paragraph 8 of this Appendix.

The Modified Distillery System.

14. Another form of the Central Distillery system is one under which a monopoly of the right both to manufacture and to sell liquor is granted, but instead of guaranteeing the payment of duty on a minimum number of gallons, the tenderers offer to pay a lump sum in

addition to the fixed duty on each gallon, and the monopoly is granted to the highest tenderer: in other respects the conditions are generally as stated in paragraph 12.

15. This system is in force in a few districts of Madras. It was also that which was introduced in a very few places in the North-Western Provinces under the name of the "Modified Distillery System;" but after the experiment known by that name had been tried for a few years and found unsatisfactory, the Bombay condition of a minimum guarantee was added in most of the few places in which the system was allowed to continue.

Experiment in Thana and Kolaba.

16. A system similar to that of paragraph 14, called the "extra percentage" system, was tried for two years in two districts of Bombay—Thana and Kolaba. There, instead of the tenders being for the payment of a lump sum, they were for the payment of an extra duty per gallon. The upset rates of duty in those districts were fixed at a high figure, and the rates were increased so much by competition in the tenders for the "extra percentage," that the high price of liquor led to a great increase in illicit distillation, and the excise administration of the districts was thrown back to the level of many years ago: the experiment has been abandoned and the "minimum guarantee" system introduced with the modification that the amount guaranteed is not fixed as the result of public competition.

The Tree-tax.

17. In Madras and Bombay, where spirit is distilled to a great extent from toddy—the juice of the palm-tree—there is a tree-tax on every tree which is tapped for distillation, as well as a direct tax on the quantity of liquor distilled.

The Contract Still System.

18. A system which may be described as lying in the middle land between the Central Distillery system and the Outstill system, but which is closer to the former than to the latter, is that known as the "Contract Still" system in the Central Provinces. A distillery is maintained by the Government, and any approved person is allowed to set up a still of a known capacity in it, being required to manufacture under a limited supervision by the excise officers, and to pay a fee, proportioned to the capacity of the still, for each day it is used. The right of sale in the area supplied from a contract still is disposed of separately in the same manner as under the Central Distillery system of the Central Provinces.

19. In one small tahsil in the Punjab a system, bearing a great resemblance to the Contract Still of the Central Provinces, has just been introduced. A full description of this with the reasons for the step, is given in extract (14) of Appendix D. The right to manufacture spirits for the tahsil has been sold to a monopolist for a fixed sum, which entitles him to manufacture a certain quantity of spirit—the quantity estimated as the consumption of the area—licit and illicit—in the last few years: for any liquor distilled in excess of that quantity he will be required to pay a fee for each time the still is used. The right of sale is disposed of separately in the manner usual in the Punjab.

The Farming System.

20. Under all the systems in group B, mentioned in paragraph 8, the right of manufacture and of sale are disposed of together. Originally an unrestricted farming system prevailed in India, and the monopoly of manufacture and sale in a certain area was granted in return for the payment of a lump sum, the monopolist being allowed to manufacture how and where he pleased, to open as many shops in any location he desired, and to sell at such prices as he chose. This system does not now exist, and has not existed for many years, in any part of British India.

21. Wherever the farming system is now in force in British India the number and location of the shops and stills is fixed before the contract is disposed of, and the right to manufacture and sell liquor in a defined area is sold by auction or by public tender: sometimes maxima and minima retail selling prices are fixed: in some places also the strength of the spirit which may be manufactured is defined and the amount manufactured and the consumption are recorded. This system is in force in some districts of the North-Western Provinces and Oudh, in a few districts of Madras, and in still fewer districts in Bombay, in which last it is known as the "outstill" system.

The Outstill System.

22. Next comes the Outstill system properly so called. The difference between this and the Farming system, described in the preceding paragraph, is that each still, usually with one shop only attached, but sometimes a slightly larger number, is disposed of separately. The

right to manufacture at the outstill and to sell the spirit there manufactured is sold by auction to the highest bidder. And in the original form of this system the control over the monopolist is confined to ensuring that he manufactures and sells only at the places mentioned in his contract. This system is in force in Assam, Burma, and part of the North-Western Provinces and Oudh, and till recently it was the system which prevailed most extensively in Lower Bengal.

23. But wherever it is still considered necessary to maintain the outstill system, the attempt is being made to subject the licensee to greater restriction and more control than exists in the simplest form of the system. A description of the more important of the measures designed to effect this will be found in Chapter X of the Report of the Bengal Excise Commission: they are chiefly the limitation of the capacity of the fermenting vats and stills and of their total annual outturn, the regulation of the strength of liquor manufactured, and the enforcement of minima retail prices. In Bengal this regulated system is being annually extended, and the number of places in which the less satisfactory system described in the last paragraph prevails will be gradually reduced until it disappears altogether. The other Governments, in whose jurisdiction the outstill system is still a necessity, are also considering the possibility of introducing similar improvements. The outstill system in force in two tahsils of the Kangra district in the Punjab is of this regulated kind rather than of that described in the preceding paragraph.

APPENDIX H.

SKETCH OF THE HISTORY OF EXCISE ADMINISTRATION.

1. On the subject of excise before the days of British rule the information is scanty. But there is enough to show both that the habit of drinking, and even excessive drinking, was not unknown, and that the native rulers realised revenue from excise. It would serve no useful purpose to go deeply into the history of the pre-British period, but one extract is given which is in point. It is from a translation from the *Tarikh-i-Firuz Shah* (History of the reign of the Emperor Firuz Shah), published in Volume XXXIX of the Journal of the Asiatic Society.

* * * * * * * *

"After several days' and nights' deliberation the conclusion arrived at by these councillors was, that the cause of the revolts was comprised in four things,

* * * * * * * *

Secondly, wine, for people are in the habit of having parties for the purpose of wine-drinking when they disclose their most secret thoughts to each other, make confederates and hatch conspiracies;

* * * * * * * *

[Thirdly, with the view of preventing revolts in future, the drinking and the sale of wines were prohibited. Afterwards the Sultan also prohibited *bagui* and hemp (*bhang*), as also gambling. Great exertions were made to carry out the prohibition of the sale of wine and *bagui*, and special wells were constructed to serve as prisons. Drunkards, gamblers, bagui-vendors were driven out of the city into the country, and the enormous taxes which the State had derived from them had to be struck off the revenue books. The Sultan, first of all, gave the order to remove from the social assembly-rooms of the palace all decanters, *ma'baris*, the porcelain vessels painted with gold, and the glasses and bottles. All were smashed, and the broken bits were thrown in heaps before the Badáon gate. The bottles of wine were also taken from the assembly-rooms and poured out, and the quantity of wine thus thrown away was so great that pools and puddles were formed as in the rainy season. The Sultan Aláuddin also discontinued his wine assemblies, and he told the Maliks to mount elephants and go to the gates of the city, and into the streets and the districts, the bázárs and sarais, and proclaim that it was his order that no one should drink or sell wine, or have anything to do with wine. Decent people gave up wine-drinking as soon as the order was published, but shameless ill-disposed wretches, pimps and panderers, erected stills (*Hind. bhatti*), and distilled spirits from sugar and drank and sold wine in secret; or they filled leather bags outside the town with wine and put them between loads of grass or fuel, or had recourse to other tricks of conveying wine into the city. The spies made strict inquiries, and the guards at the gates and the runners (*barid*) posted there examined every one, and seized the wine and the owners and took them before the palace. It was then ordered to give the wine to the elephants of the Imperial stables to drink; and such as had sold it, or smuggled it into the city,* or had drank any, were beaten with sticks, and fettered, and put into prison, where they were detained for some time. But as the number of the prisoners increased very much, they made wells before the Badáon gate at a place where all people pass by, and into these wells all were thrown that drank or sold wine.]

* Delhi.

"Some from the distress and misery they suffered in the wells died there, while others who were released after a time, came out half-dead, and it took ages for them gradually to recover their health and pull up strength. Many, therefore, through fear of imprisonment abjured the use of wine, and if they were unable to control their appetities they used to go [to the fords] of the Jamna, and the villages ten or twelve *kos* off, and drink it there. In Ghiáspur, however, and Indarpat, and Kilukhari, and the villages four or five *kos* away, as well as in the sarais outside the town, the sale and purchase of liquor was no longer feasible. It is nevertheless certain that some reckless individuals continued to distil wine at their own houses, and to drink and to sell it, and ultimately suffered disgrace and infamy, and were cast into prison.

"When the prohibition of the use of wine began to press too severely, the Sultan gave orders that if any one distilled spirits privately, and drank the liquor in seclusion, without having a party or assembly and without selling it, the spies were not to interfere with him nor enter his house nor apprehend him."

A tax on spirituous liquors appears among the lists of taxes of the Muhammadan period.

2. This extract and others which could be made from Muhammadan historians show that at times drinking prevailed even among Muhammadans, and that revenue was derived from the taxation of it As to Hindus and the period of Hindu rule, there is similar evidence, for which we may refer to paragraph 7* of the Report of the Bengal Excise Commission, where authorities are quoted to show "that spirits and other intoxicating drinks have been extensively used in India at all times and by all classes," and that the practice was made a source of revenue in Hindu India :—

* "7. *The use of spirits among the ancient Hindus.*—Dr. Rajendralala Mitra, in a very learned and interesting paper contributed by him to the Asiatic Society's Journal, Volume XLII, Part I, for 1873, shows conclusively by a profusion of instances taken from

Sanscrit literature, ancient and mediæval, that spirits and other intoxicating drinks have been extensively used in India at all times and by all classes. He states indeed that their use had been condemned by moralists and lawgivers, but he proves that rice-spirit was sold and drunk and used in sacrifices in the earliest Vedic times; that the leading characters of the Mahábhárat were addicted to strong drinks; that the Rámáyana frequently notices spirit-drinking with evident approbation; that in the time of Kálidása drinking seems to have been very common not only among men, but even among women of high rank; that the Puránas abounded in descriptions of spirits and of drinking; and that the Tantras afford the most indubitable proofs of a strong attachment on the part of a large section of the Hindus to over-indulgence in spirituous drinks. He also gives descriptions of the different kinds of spirits, of the materials from which they were made, and of the manner of making them, which will be referred to in succeeding parts of this report. He does not, however, write on the question of their being made a source of revenue in Hindu India, and it is understood that he is of opinion that they were not taxed. Other authorities, however, of great weight are of a contrary opinion; but there seems to be no direct evidence on this point beyond the alleged fact that all articles sold in shops were subject to taxation. Now in the Buddhist drama Nága Nunda there is mention of a spirit-shop, and there are similar references by Kálidás and elsewhere noticed by Dr. Rajendralala. There are also many references to the use of spirit in Buddhist works, and it was stringently prohibited in Buddhist scripture. Reference to the subject will be found in Hodgson's Languages, Literature, and Religion of Nepaul and Thibet; in Spence Hardy's Eastern Monachism; in Bishop Bigandet's Life or Legend of Gautama; and in the second volume of Burnouf's Lotus de la Bonne Loi."

Bengal.

3. In Bengal, in the period immediately preceding British rule, the tax on spirits and drugs was for the most part levied, like other taxes, through the agency of the zemindars or tax farmers; and the Bengal Excise Commission recorded their opinion that under that system "it is probable that there was a practically unrestricted system of outstills paying very low rates in many places." In other words, the system which the British Government found universally in force in Bengal was the worst form of the most inefficient system that has ever prevailed in the country. This system was necessarily continued for some time under British rule: under it the price of spirit was less than it has ever been anywhere in Bengal since the modern excise system was introduced in 1790, and complaints were then rife about the spread of drunkenness among the lower classes of the people.

4. In 1790 the Bengal Government determined, on moral grounds, to resume from the zemindars the right of collecting duties on spirits and drugs, the immoderate use of spirituous liquors and drugs, "which had become prevalent among many of the lower orders of people owing to the very inconsiderable price at which they were manufactured and sold previous to 1790," being stated in the preamble of one of the Regulations as a reason for the new rules. This was the first step taken in the direction of reform, and the ground then gained has never been lost, as the number of shops has since that date been always limited by Government and not left to be settled as caprice or the cupidity of individual land-owners dictated. The Regulations issued between 1790 and 1800 prohibited the levying of a tax on the manufacture or sale of liquors except on the part of Government, and manufacture or sale without a license from the Collector: a daily tax was levied on each still, and the officials were instructed to reduce as much as possible the number of licenses, and to fix on stills the highest rates which could be levied without operating as a prohibition. The system thus introduced was the outstill system of paragraph 22 of Appendix G: each license was for one still only.

5. In 1813 an attempt was made to introduce central distilleries in large towns, outstill licenses being prohibited within eight miles of any such distillery. Twenty-one central distilleries were opened; but after a few years' experience the opinion was formed that the measure had not in general been productive of the advantages expected to be derived from it, and the distilleries were closed in all districts except five.

6. After 1824 the farming system, with apparently the restrictions mentioned in paragraph 21 of Appendix G more or less strictly enforced, was tried, and the system was extended to nearly the whole province.

7. This in its turn was found to be open to objection, to lead to an encouragement of consumption, and to involve a sacrifice of revenue, by which the farmer alone benefited; and from 1840 changes were introduced which resulted in the general re-introduction of the outstill system except in a few places where central distilleries were continued.

8. In 1856, by Act XXI of that year, the Excise Law of Lower Bengal and the North-Western Provinces was consolidated and amended. The manufacture of spirit after the English method was confined to duly licensed distilleries, and the rate of duty on such spirit was fixed at one rupee a gallon: the customs duty on imported spirit was then R1-8 a gallon. Collectors were to issue licenses to any person for the manufacture of country spirit: they were also authorised to establish distilleries for the manufacture of country spirit and to fix

limits within which no liquor, except that manufactured at such distillery, should be sold, and no stills established or worked. There is no mention in the Act of the levy of a fixed rate of duty per gallon on the produce of such distilleries; the Boards of Revenue were merely given a general power to prescribe the conditions on which spirits might be manufactured at them The levy of a tax or duty on licenses for retail sale was prescribed, and generally wide powers were given for the restriction and taxation of the trade in spirits and drugs.

9. In 1859 the Government of India suggested to all Local Governments the expediency, on moral and fiscal grounds, of extending the Central Distillery system, with a fixed rate of duty per gallon, to many populous localities, if not universally. The Bengal Government adopted this view, thinking that the measure would render it possible to increase the *rate* of tax and discourage consumption. The system was accordingly introduced almost universally throughout the province in the next few years, the objections of local officials that in many places the system could not be worked successfully being overruled.

10. Before the end of the decade numerous objections to this wholesale measure were forced on the attention of the Government, and in 1874 several memorials praying that steps might be taken to counteract the growing increase of drinking and drunkenness were received. The objections to the universal adoption of central distilleries were so strong that it was decided to re-introduce outstills in certain places; from 1871 steps in this direction were taken, and after 1877 the reaction was carried to very great lengths, and outstills again became the general rule, central distilleries being the exception.

11. A few years' experience of this system proved that while it was not open to the objection of forcing the people to illicit practices, it was open to that of insufficiently discouraging drinking, as, in some cases, it admitted of liquor being sold at very low rates. This consideration led to the appointment of the Bengal Excise Commission, and since the Report of that Commission was received the Government has been engaged in correcting the evils arising from the excessive reaction in favour of the outstill system: the Central Distillery system is being re-introduced wherever there is a prospect of its being worked with satisfactory results: and the measures for regulating outstills recommended by the Commission are being adopted.

12. This brief notice of Bengal is sufficient to show that since 1790, when the worst conceivable system existed, having been taken over from the previous Native Government, attempts have been continually made to introduce the sounder and more scientific practice of levying a fixed duty on each gallon of spirit, and that the errors committed have generally been the introduction of reforms in too great haste, and the consequent reaction and reversion to stricter systems which invariably followed. The question of the comparative merits of the central distillery and the outstill in particular localities is one on which there may be, and is, great difference of opinion, because their relative advantages cannot be tested by figures. The danger of the immediate future is that the reaction against the outstill system may now be carried too far. But one branch of the excise question refers to the number of shops, and the rates of duty. If the number of shops has not been increased, and the rates of duty not lowered, still more if the number of shops has been reduced and the rate of duty raised wherever a fixed duty is levied, it will be clear that in these respects at least there has been no relaxation in the restrictions on drinking.

13. The number of shops for the sale of all kinds of liquor and drugs are shown in the following table for each year since 1870:—

	Distilled liquor, of all kinds.	Drugs.	Tari.	Pachwai.
1870-71	8,193	15,565	21,670	1,687
1871-72	8,937	16,615	21,689	1,815
1872-73	7,271	17,119	22,351	1,844
1873-74	6,812	10,975	22,873	2,006
1874-75	6,152	9 240	19,424	1,863
1875-76	5,294	7,424	19,265	1,661
1876-77	5,183	7,092	18,844	1,677
1877-78	5,267	7,248	19,077	1,717
1878-79	6,751	6,999	19,048	1,739
1879-80	6,878	6,877	21,579	2,006
1880-81	7,369	7,145	25,563	2,034
1881-82	6,874	6,796	30,268	2,135
1882-83	5,634	6,499	30 311	2,159
1883-84	5,740	6,513	20,138	2,259
1884-85	5,502	6,291	19,577	2,168
1885-86	5,298	6,005	19,555	2,162
1886-87	5,310	5,922	19,471	2,195
1887-88	5,112	6,059	19,051	2,157
1888-89	4 539	6,092	18,467	2,203

14. From the above it will be seen that there has been on the whole a decrease in the number of shops for the sale of distilled liquor—the shops for the sale of Central Distillery spirit, outstill spirit, spirit manufactured after the European methods, and foreign imported spirit being shown together,—and that since 1880 the decrease has been steadily progressive: the number in 1887-88 was 4,539 against 7,369 in 1880 and 8,937 in 1871.

15. It has not been considered necessary to reduce, in the same degree, the number of shops for the sale of the less noxious fermented drinks, tari, and pachwai: the number of shops for the sale of tari appears large, but many of them are for the sale of fresh unfermented toddy, a drink which we should not consider it necessary to subject to any regulations were it not that it ferments in a few hours, and after it has been drawn for 24 hours, contains a considerable percentage of alcohol.

16. The decrease in the number of shops for the sale of drugs has been even more striking than in that of liquor shops, the number being 6,092 in 1888 against 15,565 in 1870 and 17,119 in 1872. The increase in the last two years is apparent only, as it is due to licenses to druggists to sell opium for medicinal purposes having been included in the number of opium shops for the first time in 1887-88; the number of those licenses was 384 in 1887-88 and in 1888-89.

17. The rates of duty vary in the different districts in Bengal. A statement of the variations in the several districts will be found in Appendix F. An examination of that statement will show that it may be broadly stated that in Bengal the rates of duty have been doubled since 1870.

Bombay.

18. The records of the earliest days of the Peshwa's rule in what is now the Bombay Presidency do not show that any revenue was derived by the State from sale of spirits. But there are entries in the accounts of the middle of the eighteenth century showing that taxes were levied on the manufacture and vend of spirits in certain villages and subdivisions; and from the accounts of subsequent years, it appears that in almost every district spirits became by degrees a source of revenue to the Government, or of income to the Peshwa's officers. In some districts the monopoly of manufacture and sale was let in farm; in others—chiefly the districts on the coast, where spirits were considered a necessary of life to the cultivator, and the number of shops was very large—a tree-tax or still-tax and a shop-tax were levied. There is record of total prohibition in two districts only, Poona and Nuggur, and in them the prohibition would appear to have been confined to the two cities only. The revenue derived from spirits by the Peshwa was never large, but it increased steadily till the fall of the dynasty. Drunkenness was a criminal offence, and even moderate drinkers were also punished if their caste rules forbade such indulgence.

19. In the portion of Bombay acquired by the commencement of this century, the tree-tax on date and brab trees in force under the Peshwa's rule was continued, as was also the farm of the monopoly for the sale and manufacture of mowra spirit, toddy spirit being included in the same monopoly. As it was found that the consumption of spirit increased under this system, a daily tax system was introduced in 1808 in Salsette and Surat, under which a tax was levied on each still, the distiller having the right both to manufacture and to sell, as under the Bengal outstill system. Difficulty being encountered in bringing every still under the operation of the law, in 1816 the Central Distillery system was introduced in Salsette (with a duty of four annas a gallon) and in the city of Surat (with a duty of R20 per six maunds of material), while outside the city the farming system was reverted to. The Central Distillery system has been continued at Surat ever since; but in the other places where it was introduced it was abandoned in 1827 in consequence of the expenditure on the numerous distilleries being found to be too great to admit of their continued maintenance.

20. In the territories which were added to Bombay at a later date, the farming system was found in force, except in some of the coast villages of the Southern Concan; and it was continued. Central distilleries were, however, opened in the cities of Ahmedabad and Broach.

21. In 1827, Regulation XXI, which remained in force, supplemented by other laws, till about twelve years ago, was passed. The first measure attempted under that law was the levy, in the tracts of the Northern and Southern Concan, on the coast, of an impost of eight annas a gallon, the right to collect the duty being let in farm. The Bhundarees (hereditary distillers) resisted this by a general strike, and were successful. The impost was abandoned, and from 1829 the Bhundarees were merely required to sell the liquor they distilled at a fixed price to the farmer, who had the monopoly of retail sale. In one of those tracts, Ganjam, a system called the "outhputtee system" sprang up: under it the farmer levied from the Bhundarees a tax which varied according to the number of trees tapped; the Bhundarees had then the right to distil and sell without further restriction.

22. The excise arrangements introduced under Regulation XXI of 1827 stood as follows in 1832 :—

Central distilleries were maintained in the cities of Ahmedabad, Broach and Surat, a fixed duty per gallon being levied.

In districts where cocoanut, brab and date-trees did not grow, and in the portions of the Surat district where these trees grow, the right to manufacture and to sell spirits was farmed, the monopoly including in Surat the right to purchase toddy extracted by the Bhundarees.

In other districts where these trees grew, except the sub-divisions of Ganjam and Barkote, the monopoly of the retail sale of spirits and of the right to purchase spirits manufactured by the Bhundarees was farmed.

In Ganjam the "outhputtee" system above mentioned prevailed. In Barkote a ground-rent on all trees tapped for distillation was levied directly by Government officials.

23. A central distillery was opened at Kaira in 1834-35.

24. From about that year excise questions received more general consideration than before, and in 1837 a Committee was appointed to advise the Government on the steps to be taken to improve the excise administration. The Committee was unable to propose any general scheme which would be an improvement on the farming system, and recommended its continuance with modifications, such as reducing and limiting the number of shops and stills, and the freeing raw toddy from any tax except the ground-rent on the trees. The Government reiterated, and called the attention of all officers to, the principle that any loss of revenue should be cheerfully borne if any means could be devised for restricting the consumption of spirit without encouraging smuggling. Many schemes were brought forward, the grant of the farms to men whose morals and philanthropy were to be the guarantee that they would not force consumption being actually tried; and the general establishment of central distilleries was especially considered: the theoretical soundness of that system was admitted, but it was held that its introduction was impracticable.

25. In 1852 an Act was passed to remove the most prominent defects of the Regulation of 1851, and a general power was given to the Government to introduce any system where local circumstances required special treatment. The Revenue Commissioners were requested to submit a report detailing the arrangements necessary to give effect to this law; and they submitted two reports—the first in 1852 and the second in 1855; they recommended the general continuance of the farming system and framed forms of licenses and passes in which were embodied various restrictions and conditions. The recommendations were accepted by the Government, and the letting of the farms by sub-divisions or districts (the farming system of paragraph 21 of Appendix G) was declared to be preferable to letting them by single stills or shops (the out-still system of paragraphs 22 and 23 of Appendix G). This system was accordingly adopted in most places, though in some the Collectors found it so unsuited to local circumstances that they continued their previous special arrangements.

26. In 1854-55 the central distillery at Kaira was closed. In 1856 distilleries for the manufacture of spirits intended for transport to other districts were opened at Bhandoop and Caranja. In 1857 the Government declared its future policy to be the letting by auction of each shop, with its still, separately. In 1859 the duty at all the central distilleries was raised to one rupee a gallon.

27. In 1864 the Government appointed a Commission to collect information on the subject, to propose a policy having for its primary object the check of intemperance, excise being regarded as a source of revenue to be increased only so far and by such measures as are clearly not calculated to stimulate artificially and by State agency the use of intoxicating liquors and drugs. The place of the Commission was ultimately taken by an officer on special duty, Mr. Bell, who presented his report towards the end of 1869. The discussions thus begun in 1864 lasted several years, and though in the interim Act IX of 1867 was passed to regulate the excise administration of the Town and Island of Bombay, and various improvements were introduced in different districts, the farming system continued to be that generally in force up to 1878. In 1875 or 1876 the discussions began which ultimately resulted in the passing of Act V of 1878. Under that Act and with a separate Abkari Department, the system has been revolutionised, the old farming system abolished nearly everywhere, and the central distillery system, in the form described in paragraph 12 of Appendix G, with high rates of duty varying in each district and which have been increased from time to time, introduced in its place. Reforms are still being vigorously introduced in the Bombay Presidency, and there the general complaint of the people is not that the administration encourages drinking, but that it is too severe in its restrictive measures and enhances the price of liquor to a height which the distillers and the people resent.

28. The following table shows the number of shops in Bombay for a series of years :—

	Distilled Liquor of all kinds.	Toddy.	Drugs.
1874-75	3,832	1,137	...
1875-76	3,819	1,226	...
1876-77	3,876	1,271	...
1877-78	3,738	1,294	1,273
1878-79	1,973	394	1,350
1879-80	3,295	553	1,322
1880-81	3,436	657	1,296
1881-82	3,499	..	1,320
1882-83	3,149	913	1,274
1883-84	3,568	1,201	1,264
1884-85	3,440	1,076	1,292
1885-86	4,667	1,326	1,290
1886-87	3,677	1,241	1,306
1887-88	3,348	1,681	1,295

29. It will be seen that while the number of toddy shops for the sale of fresh and fermented toddy has increased, and that of drug shops has remained steady, the number of liquor shops has on the whole been decreased.

30. As in Bengal, the rates of duty in Bombay vary in each district. A statement of the progressive increases in the rates we therefore refer to the enclosures of the Bombay Government's letter appended to this Despatch. It will be seen that ever since 1877 the Bombay Government has been steadily raising the rates of duty as circumstances permitted towards that fixed for imported spirits by the Tariff. The increases are of more importance than in Bengal, because the area covered by the Central Distillery system is much larger; in the period for which figures are given nearly the whole of the Presidency has been brought under that system, and the Farming system abolished.

Punjab.

31. In the Punjab during the Sikh times there was no regular Excise system. There was nothing resembling still-head duty, but a duty was levied in many places in the shape of license fees. In rural circles there were no licensed monopolies for the sale of liquors, and any one who wished could distil liquor at his own house without let or hindrance. For minor shops no duty was levied; but in large cities an annual fee was levied for distillation and sale. For these fees there was no fixed scale; they were fixed and levied by the local officials. The Sikh Chiefs were allowed to distil liquor in their own houses for themselves and their dependants and were not required to pay any duty or to obtain permission even at the larger stations. In 1848 the Resident at Lahore issued general orders requiring the sale by auction of the excise contracts, and for some years after the annexation of the Province, the Farming system was in force throughout it. In 1862, 1863, and 1864 the Central Distillery system was introduced in every district, and has, with the slight exceptions noticed in the next sentence, been continued ever since, the rates of duty being raised from time to time, till now the rates are higher than in any other province—so high that there exists in the Punjab a very considerable amount of illicit distillation, which now forms the main difficulty of excise administration in that province. The exceptions mentioned are a small portion of the Kangra district, in which a regulated outstill system has been in force since 1884, and one tahsil of the Gurgaon district, where the system described in paragraph 19 of Appendix G has this year been brought into force.

32. The following are the numbers of shops in the Punjab in each year since 1870:—

	Distilled Liquor of all kinds.	Drugs.
1870-71	1,042	463
1871-72	1,048	560
1872-73	1,110	576
1873-74	1,061	728
1874-75	1,126	1,093
1875-76	1,142	1,902
1876-77	1,215	1,764
1877-78	1,249	1,850
1878-79	1,253	2,111
1879-80	1,349	2,250
1880-81	1,452	2,111
1881-82	1,591	2,059
1882-83	1,540	2,081
1883-84	1,535	2,157
1884-85	1,624	2,120
1885-86	1,680	2,095
1886-87	1,723	2,220
1887-88	1,947	3,500
1888-89	1,904	3,639

33. The increase in 1887-88 and the following year is apparent only, as previous to that year it had been the custom in many districts to include in the returns the number of leases only, although some of them might include more than one shop. In that year instructions were issued to ensure that the returns showed correctly the number of separate shops. Nevertheless, on the whole, in this province the number of shops has increased. The explanation of this is that the central distillery system with very high rates of duties prevails throughout the Punjab: illicit distillation consequently prevails in that province to a very great extent, and is probably more rife than in any other Province in India. The increase in the number of shops has been allowed as one of the means employed in attempting to cope with the evil. In numerous passages in the Excise Reports of past years, the reason assigned for the establishment of new shops is that just mentioned. There is no doubt that the maintenance of the strict system and high rate of taxation in the Punjab necessitates the grant of licenses for a larger number of shops than would otherwise be required.

34. On the introduction of the central distillery system into the Punjab in 1862 the rates of still-head duty were fixed at—

R2 per gallon for spirit of the strength of London proof.
R1-8 „ „ „ 25° under proof.

In 1863 these rates were raised to—

R2-8 per gallon for spirit of the strength of London proof.
R2 „ „ „ „ 25° under proof.
R1-8 „ „ „ „ 50° „ „

In 1865 the rates were increased in the Rawal Pindi and Multan Divisions and the Hazara Districts to—

R3 per gallon for spirit of the strength of London proof.
R2-8 „ „ „ „ 25° under proof.
R2 „ „ „ „ 50° „ „

In 1877 these higher rates were extended to the whole province with the exception of the Umballa and Hissar Divisions, which adjoin the North-West Provinces. There has been no change since. The levy of license fees for sale in addition to the still-head duty raises the total taxation of country liquor per gallon to a very high figure in the Punjab.

Madras.

35. In a minute by Sir Thomas Munro, dated 1807, in which he discussed the respective merits of the farming and the outstill systems, it is stated that arrack "has for ages been manufactured and sold in all places subject to no other restraint than that of taxation."

36. When the territories in Madras came under British administration the system found in force was the farming system, apparently quite unrestricted, the farmer having merely to pay his yearly rent and being left free to manufacture as he pleased and to establish shops in such numbers and in such places as he thought desirable.

37. The farming system was continued by the early British administrators. It is not clear how soon restrictions as to the number of shops, and in other respects, began to be

imposed, but in the early years of this century considerable discussion took place regarding excise regulations. In 1803 the question arose whether the Bengal system of licensing and taxing each still separately was not preferable to the farming system, and whether the direct management of the revenue would not be preferable to either of those systems, involving, as they did, the letting in farm of the revenues. The Board of Revenue and the Government of Madras considered that the objections based on general principles to farming the revenues did not apply "to the renting, as in the present case under restrictions an article of luxury by no means necessary, nay even detrimental, to the public weal." It was declared that the object held in view was "to restrain and regulate" the consumption of liquor, and the opinion was expressed that the health and good order of the people, which were objects of far more importance than the augmentation of revenue, would be more surely promoted by the farming than by the outstill system. The result of the discussions was the passing of Regulation No. I of 1808. It provided that the exclusive privilege of manufacturing and selling arrack should be farmed in each district, and that the places at which distillation and sale might take place should be determined by the Collector. The separate licensing of each still was also authorised as an alternative; and Collectors were recommended by executive instructions to try both plans in different parts of their districts. The second plan, the outstill system, was tried in a few districts but soon discontinued, and in 1815 the farming system, restricted and regulated according to the directions in the Regulation, was in force throughout the Presidency except in the town of Madras, where a special system of direct management was maintained.

38. Regulation I of 1820 amended the law by authorising the treatment of toddy and other fermented liquors in the same way as spirits by allowing Collectors to retain the manufacture and sale under direct management, where that was deemed preferable to farming, by providing penalties for breaches of the rules, and by giving more extensive powers to the Board of Revenue to frame rules for the regulation of sale and for all details of management and control.

39. This law remained in force for over forty years, and under it the farming system was universal with the exception of the town of Madras, regarding which a special Act was passed in 1852. In 1841 proposals to raise the rates of taxation were discussed but ultimately abandoned, district officers being merely enjoined to enforce strictly the prescribed minimum retail prices.

40. In 1864, Act III of that year was substituted as the Excise Law of Madras. The two main alterations were the grant of power to levy an excise duty on the quantity of liquor manufactured instead of an annual payment for the farm, and the reservation of the right to suppress the home manufacture of fermented toddy where that privilege was likely to be used as a cloak for illicit sales or distillation.

41. In 1869 the power conferred by the Act of 1864 was brought into operation in one district, and the monopoly of Ganjam was given to a contractor with the condition that he should pay a fixed duty on every gallon issued. This system was continued in Ganjam and extended to four other districts three years later. In the later contracts for these five districts the condition known as that of a "minimum guarantee" appears, at first assuming the form that if the duty realised did not reach a certain sum the Government should have a right to cancel the contract, and subsequently in the form in which it was afterwards adopted in Bombay, namely, that the monopolist undertook to pay a certain minimum sum as duty, even though the issues were of a quantity on which a smaller duty was payable.

42. In 1874, an officer was placed on duty to prepare a complete report regarding excise matters and to make recommendations for the improvement of the existing system. In 1875 the system just described was further extended to about half the districts of the province (the spirit monoply being at the same time separated from that for fermented toddy), and it was further extended up to 1884. In this period it was found that illicit distillation prevailed, and that, owing to the absence of competition and the concentration of the business in the hands of a few rich firms and to the contractors being entrusted with all the preventive arrangements, the system was not a great success, and was open to improvement in several important respects. A Committee was appointed to report on Excise in 1884, and the subsequent excise measures in Madras have been based on the recommendations of that Committee.

43. From 1st October 1884 the system last described gave place in every district in which it was in force except one to that described in paragraph 11 of Appendix G, under which the monopoly of manufacture was let separately from that of sale, the former being granted on condition of payment of a fixed duty per gallon and that liquor should be supplied to the shops at a fixed maximum rate, and the right of sale being given on payment of a fixed fee per shop, or number of shops, or on payment of a fee determined by auction. After a

short trial this gave way to the system described in paragraph 8 of Appendix G under which no monopoly of manufacture is established. The law was amended by the enactment of Act I of 1886. Under the powers taken by it a Commissioner of Abkari was appointed, and reforms have ever since been vigorously pushed, the general tendency being to extend the system last mentioned.

44. The following table shows the number of shops in Madras in each year from 1878:—

	Distilled Liquor of all kinds.	Toddy.	Drugs.
1875-76	20,968	19,761	...
1876 77	17,205	20,683	...
1877-78	13,923	19,645	...
1878-79	16,755	18,844	...
1879-80	16,293	16,326	...
1880-81	15,321	16,854	1,238
1881-82	16,559	18,540	1,026
1882-83	18,072	18,231	1,098
1883-84	17,870	18 727	1,117
1884-85	19,970	19,569	1,107
1885-86	22,201	14,214	1,073
1886-87	27,566	15,933	1,175
1887-88	21,021	22,549	1,171

45. The rates of duty in Madras also, as in Bengal and Bombay, vary in different districts. Moreover, in that Presidency the change of system which took place in 1884 renders deceptive a comparison of the fixed rates after that date with those before it; because before 1884 no separate licensee's fees were levied in addition to the still-head duty. The comparison in that province must, therefore, be of the total incidence per gallon of the fixed duty and license fees combined. The information is given in the enclosures of the Madras letter appended. It will be seen that the incidence has considerably increased.

North-Western Provinces and Oudh.

46. The early history of excise in the North-Western Provinces is the same as that in Bengal, the two Provinces being under the same Administration till after 1832. The farming system, which was found in operation when the territories came under British rule, was continued, restrictions in the number of shops, and in regard to other matters, being introduced and made more stringent from time to time. Between 1813 and 1824 the Central Distillery system was tried and considered to be unsuitable. The "Directions to Revenue Officers," issued in 1838 after the separation of the Province from Bengal, mentioned the Central Distillery system as an alternative to the farming system: Act XXI of 1856 also authorised the establishment of that system; but it was not introduced anywhere. And in 1859 the Local Government, in reply to the reference from the Government of India, opposed the re-introduction of the Central Distillery system on the grounds that it had failed when tried before, and that the existing systems secured as high a duty as could be obtained without forcing consumers to illicit practices or unduly encouraging consumption The systems then in force in the North-Western Provinces were the licensing of single stills, and also of shops on payment of fees fixed by the Collector; and the farming of manufacture and sale usually for one year for sub-divisions—the farm of a whole district was seldom resorted to—on payment of rents fixed by public tender: Collectors had discretion to resort to auction instead of tenders, but this discretion was seldom used. In the neighbouring Province of Oudh, however, after the confusion which followed the annexation of the Province and the Mutiny had passed away, the Central Distillery system was uniformly adopted from May 1861 in the form in which it still prevails in Northern India: the still-head duty was fixed at R1 for spirit of higher strength than 25° under proof and 12 annas on lower strengths: sales were at first allowed on licenses without fees, but fees were subsequently levied.

47. The views of the North-Western Provinces Government altered in regard to the Central Distillery system, and that system was introduced in nearly the whole of the North-Western Provinces from May 1853. The rates of duty were fixed at 12 annas a gallon for spirit of lower strength than 25° under proof and one rupee for spirits of higher strength: the subsequent changes in the rates of duty will be shown below.

48. The licenses for retail sale were at first sold by auction, and the receipts from this source formed a large part of the Excise Revenue. In 1867-68 an experiment was tried in one district with the object of allowing the number of shops to be fixed by the ordinary ope-

ration of competition instead of the district authorities: in this experiment the still-head duty was relied on as the main part of the tax on liquor: licenses were granted to open shops on payment of a low fixed license fee at any place for which application was made, except that for police purposes two shops were not allowed within 200 yards of each other. The result was that while the number of shops actually opened was somewhat less than the number fixed as the limit in the previous year by the authorities, the receipts from still-head duty rose from ₹20,000 to ₹50,000. The inference was that there had been a large sale of illicit spirit on which no duty had been paid under the previous system, and that the effect of unrestricted competition among the shop-keepers when the artificial limitations in their number were removed, was to cause them to sell licit instead of illicit spirit, although as a fact the number of shops was not increased. The next year the Excise Commissioner proposed that this plan should be tried everywhere, and that licenses for shops should be granted at a low fixed fee uniform throughout the Province to all respectable applicants. It was anticipated that the number of shops would increase at first, but that the effect of competition would soon be to reduce the number to that really required for the convenience of the public.

49. These proposals were approved by the Government, but with a modification which deprived them of any value they might have by excluding the factor—free competition—which it was hoped would regulate the number of shops in a more effectual and beneficial manner than the local estimate of the requirements by the Collector was capable of effecting. The modification was the restriction of the number of shops to what it was in the previous year. In the next year 1870-71 a change was made, and the following rule laid down:—

"The Collector will fix the number and locality of the different shops, and determine their letting value according to the advantages possessed by each. *It is not intended that they* should, as a rule, be put up to public competition; but competition may be resorted to by the Collector and taken into account in determining the sum at which each shall be leased. To work this system effectively careful inquiries will be necessary into the amount of liquor sold, the distribution of the drinking population, the price at which liquor is obtainable, and many other points affecting the profitableness of the several localities."

50. This rule remained in force for many years, but the difficulties in the way of obtaining accurate information of the kind required to work the rule effectively have led to the reversion generally to the practice of putting up the shops to auction.

51. The experience of the working of the Central Distillery system from 1863 to 1870 proved that it had been much too extensively introduced, and that it had been applied in many tracts in which, under the circumstances which existed, its success was almost hopeless. *Illicit* practices were believed to be largely prevalent in those tracts, and this conclusion was proved to be correct by the comparison of the figures of revenue of the years before and after the farming system was re-introduced in certain districts: large increases in apparent consumption occurred in those places which it was impossible to explain by a sudden and startling change in the habits of the people, and which were explainable only by the existence of illicit practices in previous years.

52. In 1873 the Local Government expressed its conviction "that smuggling or the sale of illicit liquor was going on to a very large extent in several districts," and that in some of them statistics "rendered it probable not only that the illicit sale of liquor existed, but that it was on the increase."

53. In 1863 the only two tracts not brought under the Central Distillery system were the districts of the Jhansi Division which were surrounded by Native States and the mountainous district of Kumaon.

54. After 1871 the Farming or Outstill system was re-introduced successively, for the reasons above indicated, into portions of several other districts, the names of most of which will be found in extract (6) in Appendix C.

55. In 1877 a Committee was appointed to report on excise matters, and in accordance with its recommendations numerous measures were adopted for the improvement of the administration. A selected assistant was placed in charge of excise in each district, and to reduce the temptation to smuggling and the prevalence of malpractices in issuing spirit at the distilleries, the rate of duty was fixed at a uniform rate of one rupee irrespective of strength. The "*Modified* Distillery System," described in paragraphs 14 and 15 of Appendix G above, was also proposed, and in the following years was tried in some districts; it was, however, found to be a failure and has been abandoned in all but an insignificant area.

56. The number of shops in the North-Western Provinces and Oudh in each year since 1876-77 are given in the following table: figures for early years are not available for Oudh :—

	Distilled Liquor of all kinds.	Tari.	Drugs.
1876-77	7,136	1,472	2,913
1877-78	7,388	1 531	3,552
1878-79	7,730	2,202	3,756
1879-80	8,328	2,623	3,752
1880-81	8,799	3,842	5,276
1881-82	9,019	4,042	5,324
1882-83	9,354	4,084	5,877
1883-84	9,635	4,239	6,000
1884-85	8,627	4..91	5,842
1885-86	8,349	4,102	4,667
1886-87	8,212	4,300	4,943
1887-88	8,112	4,135	4,962

The number of liquor shops is now higher than it was in 1876-77. The number increased from year to year up to 1883 when it amounted to 9,635 : since that year there has been a steady reduction. As in the case of the Punjab, the increase in the earlier years had for its object the diminution of illicit practices. In reviewing the Excise Report for 1876-77, the Lieutenant-Governor expressed the opinion that the number of shops in distillery tracts was quite insufficient, and after noticing the variations in different districts said: "it is impossible to conceive that the taste of the people is as capricious as the allocation of shops by Collectors." In the Excise Commissioner's Report for 1882-83 it was said: "Shops should be so distributed that a man determined to drink may do so without an amount of inconvenience which might stimulate smuggling or illicit distillation, but at the same time, it is not desirable that a Government Department should act the pushing publican and establish shops in every prominent locality." In the same report it was observed that "in most districts we have to combat suspected malpractices rather than a tendency towards an excessive consumption of licit liquor." Thus it will be seen that the increase in the number of shops was made designedly with the object of diminishing the illicit practices which always are more difficult to check under the Central Distillery system than under any other. But the reduction in the rate of duty diminished the temptation to these evils, and this, added to the greater attention paid to the Excise administration by district officers since 1877, has rendered it possible to reduce the number of shops considerably since 1883.

57. The rates of duty have varied as under in the North-Western Provinces and Oudh.

58. In Oudh the rates fixed in 1861 were—

R	*a.*	
1	0	for strengths higher than 25° U. P.
0	12	„ lower „ 25° „

In 1862 the latter rates were raised to R2 and R1-8. But in 1863 they were reduced to those of 1861.

In 1876 the Chief Commissioner of Oudh, in reply to a suggestion from the Government of India, expressed his readiness to raise the rate of duty to that in force in the North-Western Provinces, R1-8 a gallon. But as the North-Western Provinces Government in the meantime proposed to reduce the rate for the reasons stated below, and it was desirable to have the same rate in both Provinces, the Oudh rate was altered in 1877 to a uniform rate of one rupee a gallon irrespective of strength at the same time as that rate was adopted in the North-Western Provinces.

59. In the North-Western Provinces the rates fixed in May 1873 were—

R	*a.*	
1	0	for strengths higher than 25° U. P.
0	8	„ lower „ 25° „

In October of the same year these rates were raised to R2 and R1.

In 1864 it was thought necessary to fix different rates for spirit distilled from mohwa and from molasses. For the former spirit ₹1 and 8 annas were fixed; and for the latter ₹1-8 and 12 annas. In 1866 these rates were raised to ₹1-8 and 12 annas and ₹2 and ₹1 respectively. In 1867 the malpractices connected with the testing of strength led to the abolition of the differential rates for different strengths, and the duty was fixed at a uniform rate of 8 annas for mohwa spirit and one rupee for molasses spirit. In 1869 the rate for both kinds of spirits was raised to ₹1-4 and in 1870 to ₹1-8. In 1876, the Local Government, in reply to a suggestion from the Government of India that the duty might be raised, said:—

"There is a strong consensus of opinion that the present rate, so far from being capable of increase, is too high and should be lowered. The still-head duty *plus* license fees falls on undiluted liquor at about ₹2-8 the gallon; and from the review of the Excise Report for 1873-74 His Excellency in Council will learn that in many districts the competition of illicitly manufactured liquor is on the increase. The loss of revenue is doubtless not wholly due to illicit distillation encouraged by a high rate of duty, for it is probable that much liquor leaves the distillery which pays no duty, and that the revenues are thereby defrauded; but in the eastern part of these Provinces especially, the facilities for the manufacture of native liquor from the mohwa tree are so great that the imposition of any but a light duty must certainly lead to illicit distillation. The best way of raising the excise revenue is still under His Honour's consideration. But in a country in which the means of distillation, whether from molasses or from mohwa, are to hand, and in many parts of which the competition from foreign territory is lively, it is impossible to raise the duty."

In accordance with these views the Government of the North-Western Provinces in 1877 proposed that the rate should be reduced to ₹1 per gallon on the grounds that "this would greatly diminish the inducement to illicit manufacture:" and that "complaints have been numerous that the present rate of duty in the North-Western Provinces is so high as to have put duty-paid spirits beyond the means of the majority of the drinking classes, and given rise to much smuggling and illicit manufacture."

The Government of India reluctantly sanctioned this measure. It has undoubtedly had a considerable effect in reducing illicit practices in the North-Western Provinces, complaints of which are now less common than formerly. The Government of India has, however, for some time been disposed to think that the rate is too low, and that illicit distillation and smuggling might now, with the more efficient administration which has been secured in consequence of the greater attention paid to excise matters in recent years, be kept in check even if the rate were raised. This view was not for some time pressed on the Local Government because of the known danger in interfering with the discretion of Local Governments in these matters. The Lieutenant-Governor has however recently been requested to consider whether the rate of duty should not now be raised.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 1st March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
1	Burdwan March 1, '90	Nil	Weather—seasonable. Sugarcane being cut. Outturn about 18 annas. Prospects of other *rubbi* crops continue favourable. Prices of common rice :— Srs. Burdwan ... ... 15½ Culna ... . 16 Cutwa ... ... 16½ Ranigunge ... ... 19 } per rupee
2	Bankoora „ 1, '90	Nil	Weather—days hot, mornings and evenings cool. Wheat, barley, gram, and mustard being reaped. Pressing of sugarcane continues. Common rice 19 seers per rupee at Sudder and 19½ seers at Bishenpore.
3	Birbhum „ 1, '90	Nil	Weather - warm. Prospects of crops very fair. Price of common rice ranges from 17 to 20 seers per rupee.
4	Midnapur „ 1, '90	Nil	Weather—fine but getting hot. General prospects good. Indigo doing well Some rain wanted in the Ghatal subdivision. Prices almost stationary Prices of common rice :— Srs. Sudder ... ... 18 Contai ... ... 24 Tamluk .. .. 18 Ghatal ... ... 19 } per rupee.
5	Hooghly „ 1, '90	Nil	Weather—seasonable. All crops doing well. Prices of common rice :— Srs. Sudder ... ... 12½ Serampore .. .. 14 Jehanabad ... ... 17½ } per rupee.
	Howrah „ 1, '90	Nil	Weather—foggy mornings, days warm. State and prospects of crops good.
	Central Districts.		
6	24-Parghs. March 1, '90	Nil	Weather seasonable. A good winter crop has been harvested, and *rubbi* crops promise well. *Boro* paddy doing well. Pressing of sugarcane proceeding. Common rice selling at from 16 to 18 seers per rupee.
7	Nuddea „ 1, '90	Nil	Weather—seasonable. Prospects of crops on the ground favourable. Linseed, *matar*, and gram being reaped and threshed; outturn may be 12 annas. Cultivation of land for *aus* going on.
8	Khoolna „ 1, '90	Nil	Weather—mornings foggy and days warm. Condition of *boro* paddy and *rubbi* crops good.
9	Jessore „ 1, '90	Nil	Weather—hot in the day, but cold in the night. Rain wanted for cultivation of rice lands. Harvesting of cold weather crops going on. Price of rice stationary.
10	Moorshedabad „ 1, '90	Nil	Weather—bright and cool. Harvesting of *rubbi* crops continues. Lands being prepared for *bhadoi*.
11	Dinagepur „ 1, '90	Nil	Weather—days hot and nights cool. Prospects favourable. Average outturn of mustard 12 annas. Pressing of sugarcane continues.
12	Rajshahye „ 1, '90	Nil	Weather—hot in day, cool at night. Harvesting of mustard almost over. Prospects of other *rubbi* crops generally good, but want of rain much felt. Lands being prepared for *aus* rice and jute at Nattore. Ganja manufacture continues. Rice sells at 17½ seers per rupee.
13	Rungpur „ 1, '90	Nil	Weather—cool with high northerly winds. Rain much wanted for *aus* sowings. *Rubbi* crops doing well. Sugarcane and tobacco both most promising.
14	Bogra „ 1, '90	Nil	Weather—seasonable. Land is being ploughed for *aus* paddy, jute, &c. State of the standing crops (peas, linseed, &c.) good. Outturn of sugarcane 16 annas. About one-eighth of the land appears to have been transplanted with sugarcane. Common rice selling at 22 seers per rupee.
15	Pubna „ 1, '90	Nil	Weather—cloudy and fair. Outturn of mustard and tobacco expected to be 12 annas. Other winter crops doing well. Rain wanted for *chasna* and *kaun*.
16	Darjeeling „ 1, '90	Nil	Weather—fair. Crops doing well and prospects generally good. Prices of common rice :— Srs. Darjeeling ... ... 12 Kurseong ... ... 13 Silliguri ... ... 19 } per rupee.
17	Julpigoree „ 1, '90	Nil	Weather—hot days with cold nights. General condition of tobacco crop good. Prices stationary.

Burdwan Divn. | Presidency Divn. | Rajshahye Divn.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*				
		Eastern Districts.		
Dacca Divn.	18	Dacca March 1, '90	Nil	Weather—days getting hot, but nights are cool and fine. Winter crops doing well. Mustard, pulses, and sugarcane being cut. Ploughing for early rice and jute is well advanced. Fodder is available. No special change in the prices of food-grains. Common rice 15 seers per rupee.
	19	Furreedpur „ 1, '90	Nil	Weather—cooler at nights than in the previous week. State and prospects of crops continue fair. Sugarcane being planted. Cheap rice selling at 16 seers per rupee.
	20	Backergunge „ 1, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops fair. Common rice selling at 13½ seers per rupee.
	21	Mymensingh „ 1, '90	Nil	Weather—seasonable. Prospects of crops good. Coarse rice sells at 14 seers per rupee.
Chittagong Divn.	22	Chittagong „ 1, '90	Nil	Weather—seasonable, getting warmer. Rain wanted for crops.
	23	Noakholly „ 1, '90	Nil	Weather—variable, hot in day, but cool in night. *Rubbi* crops are being harvested. Cultivation of soil for *aus* continues. Rain wanted. Price of rice stationary.
	24	Tipperah „ 1, '90	Nil	Weather—unusually warm. Strong winds; cloudy. Gathering of mustard completed. *Boro* paddy and chillies thriving, but rain wanted. Prospects good in land, on *chars* fair.
	25	Chittagong Hill Tracts. Feb. 28, '90	Nil	Weather—cold in the morning, days becoming hot. Gathering of mustard now over; outturn estimated at about 6 annas. Tobacco and chillies progressing, but rain much wanted. *Jum* cutting commenced. Sugarcane being planted. Inferior and lowest class rice selling at 16 seers per rupee.
		Hill Tipperah March 1, '90	Nil	Weather—getting warm. Sugarcane still being cut. *Boro* paddy doing well in the low lands. *Jums* are still being cleared.
BEHAR.				
Patna Divn.	26	Patna „ 1, '90	0·03	Weather—nights cool, days warm. Harvesting of *rubbi* crops being pushed on. Wheat and barley not yet commenced to be reaped. Collection of opium going on. Prospects continue favourable. Prices of food-grains almost stationary.
	27	Gya „ 1. '90	Nil	Weather—seasonable. Opium being extracted. Mustard, linseed, gram, and *kerao* being reaped.
	28	Shahabad „ 1, '90	0·04	Weather—warm and cloudy. Harvesting of pulses almost finished with average outturn. Wheat promising. Opium being extracted. Prospects excellent. There was a storm on the night of the 25th, with very slight rain, which damaged mango blossoms, but did no appreciable harm to the poppy crop.
	29	Durbhunga „ 1, '90	Nil	Weather—days warm, but nights cool; a storm of wind followed by a few drops of rain on the night of the 25th. Wheat, barley, and linseed are ripening. Extraction of opium commenced. Indigo is being sown. Lands in churs being ploughed for paddy. Common rice selling at 19¾ seers per rupee at Sudder.
	30	Mozufferpur „ 1. '90	Nil	Weather—warm; a gale with slight rain on 25th all over district. Prospects favourable. Poppy in full flower, and collection of drug commenced.
	31	Sarun „ 1 '90	Nil	Weather—clear, occasionally cloudy. *Rubbi*, including oats, gram, and linseed, doing well, and gives prospect of a 16-anna crop. Poppy prospects also continue favourable.
	32	Champarun „ 1, '90	Nil	Weather—getting hot, occasionally cloudy. *Rubbi* attaining maturity with the prospect of a 16-anna crop. Linseed ripening. Planting of sugarcane progressing. Opium in juice, and mango trees in flowers. Indigo sowings commenced.
Bhagulpore Divn.	33	Monghyr „ 1 '90	0·10	Weather—seasonable. Days warm, but nights cool. Standing crops doing well.
		Begusarai ..	0·8	Late wheat and peas in the Begusarai subdivision have slightly suffered from rain, but indigo has benefited. Prices stationary.
	34	Bhagulpur „ 1. '90	Nil	Weather—seasonable. Linseed being harvested with about 8 annas outturn. Low lands being ploughed.
	35	Purneah „ 1, '90	Nil	Weather—days rather warm with strong west wind. Tobacco being gathered. All *rubbi* crops doing well. Wheat would be the better for a shower. Ploughing going on.
	36	Maldah „ 1, '90	0·06	Weather—fine and warm with westerly wind. A slight shower on one day in the Sudder. *Rubbi* crops ripening and doing fairly. Transplanting of *boro* paddy continues. Common rice selling at an average of 18 seers per rupee.
	37	Santhal Pergnas „ 1, '90	Nil	Weather—hot with strong wind in the north; cool and cloudy in the south-west. Mango crop promises well. Sugarcane being planted. *Rubbi* crop generally promises well, except in Pakour, where mustard, linseed, and wheat expected to yield 8 annas only.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	ORISSA.				
Orissa Divn.	38	Cuttack	March 1, '90	Nil	Weather—sky mistry in the morning. Harvesting of *mung* completed. Prospects continue good
Orissa Divn.	39	Pooree	Feb. 28, '90	Nil	Weather—seasonable. Threshing of the winter crop (late *sarad*) still continues. *Dalua* and *mung* doing well. Mango crop almost lost by fog. Price of rice stationary.
Orissa Divn.	40	Balasore	March 1, '90	0·20	Weather—seasonable. Few crops on the ground. Such as there are doing fairly well. Rain would be welcome.
	CHOTA NAGPORE				
	South-West Frontier Agency.				
Chota Nagpore Divn.	41	Hazaribagh	March 1, '90	Nil	Weather—seasonable. Crops in good condition generally, but some rain is needed.
Chota Nagpore Divn.	42	Lohardugga	,, 1, '90	Nil	Weather—days hot, mornings cool. Prospects of *rubbi* crops favourable. In Palamow the *rubbi* crops that were spared from the late hoar-frost are now ready. *Mohwa* crop promises well. Uncommon abundance of mango blossom all over the district.
Chota Nagpore Divn.	43	Singbhoom	,, 1, '90	Nil	Weather—seasonable. Prospects of crops remain good. Prices stationary.
Chota Nagpore Divn.	44	Manbhoom	,, 1, 90	Nil	Weather—rapidly getting hotter, and westerly winds beginning. Spring crops doing well. Sugarcane being planted.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 4th March 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 23rd February to 1st March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Feb.	23rd	142·8	9·1	29·915	75·6	87·7	24·4	63·3	68·5	0·602	64·2	71	WSW and variable	63	Nil	Clear, ⌓.
,,	24th	141·2	9·6	·921	76·6	87·9	21·8	66·1	69·5	·627	65·4	71	WSW and SW by W	81	,,	Morning cloudy, day and night clear, o.
,,	25th	141·3	8·4	·914	76·1	87·4	22·4	65·0	68·8	·608	64·5	70	SW by W and NNW	83	,,	Partially cloudy ≡; ⌓.
,,	26th	142·5	9·3	·861	76·0	90·8	28·0	62·8	69·0	·616	64·9	69	WSW, SW and SSW	149	,,	Chiefly clear.
,,	27th	140·0	8·3	885	78·1	87·5	20·6	66·9	70·3	·644	66·2	68	SSW and variable...	83	,,	Partially cloudy ⌓.
,,	28th	140·3	8·2	·917	76·4	86·7	21·1	65·6	64·9	·468	57·1	55	WNW and variable	67	,,	Chiefly clear ⌓.
March	1st	142·2	7·3	·903	75·9	86·2	24·0	62·8	70·2	·667	67·2	76	S by E, SSW and variable.	67	,,	Chiefly cloudy, ⌓, ≡, o, t, ≺.

	Inches.
The mean pressure of the seven days	29·902
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·900
	Hours
The total number of hours of bright sunshine	60·2
The maximum possible number of hours of sunshine	81·1
	°
The mean temperature of the seven days	76·4
The average temperature of the corresponding period for 24 years, S.-G.'s Office	76·5
The extreme variation of temperature	23·0
The maximum temperature	90·8
	Miles
The highest velocity of the wind in one hour	17
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	69
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	64
	Inches.
The total fall of rain from 23rd February to 1st March 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·20
The total fall from 1st January to 1st March 1890	0·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·49

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, ⌓ dew, ≡ fog, t thunder, ≺ lightning.

N B.—In the weekly report from 9th to 15th February 1890, read 59·9 for 55·9 as the mean wet bulb of the 9th February 1890.

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, the 3rd March 1890.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division.	District	Representative station.	Air Pressure. Mean barometric height, 8 A.M.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree	29·974	29·968	—	NW.	223	90·2	23rd Feb.	?	?	86·6	?	?	?	77·7
		Gopalpore	29·946	29·968	—·007	NNW	319	85·2	23, 24 ,,	69·4	24th Feb.	84·6	71·9	78·3	0	76·4
		False Point	29·951	29·973	—·034	NW	209	89·5	23rd ,,	63·5	23rd ,,	80·3	67·9	77·1	+1·0	71·8
	Cuttack	Cuttack	29·901	29·984	—·014	Calm	262	96·4	28th ,,	66·8	22nd, 23rd Feb.	96·0	69·3	82·7	+2·0	73·4
	Balasore	Balasore	29·91	29·979	— 026	N	188·7	93·4	27th ,,	60·0	23rd ,,	91·5	63·1	78·3	+2·8	76·2
South-West Bengal.	South-West Midnapore, South 24-Parganahs	Saugor Island	29·953	29·980	—·018	Westerly	247	88·2	28th ,,	60·9	23rd ,,	85·3	71·5	78·4	+1·6	74·5
	Midnapore	Midnapore	29·929	29·984	—·029	N	105·4	96·3	27th ,,	62·2	23rd ,,	93·7	64·6	79·2	+4·2	72·6
	24-Parganahs, Howrah, Hooghly	Calcutta	29·950	29·972	—·031	Calm & Westerly.	82	91·0	27th ,,	62·8	20th ,,	88·4	64·7	76·6	+2·1	70·2
	Burdwan	Burdwan	29·886	29·902	— 044	Calm	34·8	95·8	27th ,,	59·6	24th ,,	91·5	62·7	77·1	+2·6	68·9
	Bankoora	Bankoora	29·841	29·954	— 032	W	69·7	94·1	27th ,,	60·9	23rd, 24th Feb	91·4	63·7	77·1	+2·8	68·5
	Beerbhoom, West Burdwan	Raneegunge	29·844	29·890	—·020	WNW	55·2	94·5	27th ,,	60·1	23rd ,,	91·1	63·5	76·8	+2·7	67·7
East Bengal.	Moorshedabad	Berhampore	29·889	29·900	— 041	Westerly	75·6	92·2	27th ,,	57·7	24th ,,	89·0	61·1	75·5	+1·9	61·9
	Nuddea	Krishnaghur	29·924	29·992	—·013	WSW	82·4*	93·7	27th ,,	51·8	23rd ,,	90·6	57·5	74·1	+1·9	70·6
	Jessore, Khoolna	Jessore	29·954	29·960	—·028	South-westerly.	43·4	91·8	27th ,,	64·5	22, 24, 26 & 28 Feb.	89·0	65·5	77·3	+3·0	70·6
	Chittagong	Chittagong	29·896	29·949	— 027	Variable	68·9	88·6	25th ,,	59·6	20th ,,	87·7	63·3	75·5	+3·3	66·3
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·956	29·999	—·010	Calm	67·4	88·3	26th Feb.	60·1	24th ,,	87·2	66·3	76·8	+5·0	72·1
	Noakholly	Noakholly	29·956	30·000	—	South-westerly	91·2	88·0	26th ,,	61·5	26th ,,	86·1	65·8	75·9	—	74·8
	Furreedpore	Furreedpore	29·923	29·964	—·035	SW	69·7	86·0	23rd ,,	61·5	25th, 26th Feb.	85·2	62·5	73·7	+2·1	70·0
	Dacca	Dacca	29·931	29·954	— 043	S & SSW	79·6	90·6	27th ,,	61·3	26th ,,	88·5	63·6	76·0	+2·3	69·9
	Commillah	Commillah	29·938	29·977	—·015	S	45·2	88·4	25th, 28th Feb.	59·0	26th ,,	86·7	64·3	75·5	+2·2	70·1
	Mymensingh	Mymensingh	29·960	29·960	— 042	Easterly	70·7	88·4	27th ,,	57·0	24th ,,	86·0	60·5	73·3	+2·8	66·1
North Bengal.	Bogra	Bogra	29·867	29·989	—·050	S	87·1	91·2	27th ,,	55·1	28th ,,	88·5	58·8	73·6	+3·3	69·3
	Pubna	Serajgunge	29·894	29·942	— 045	WSW	48·5	90·8	27th ,,	54·1	28th ,,	88·3	58·5	73·4	+3·0	67·4
	Rajshahye	Rampore Beauleah	29·881	29·951	— 019	South-westerly	80·0	89·3	27th ,,	56·2	24th ,,	87·0	60·6	73·8	+4·2	67·4
	Maldah	Maldah	29·876	9·961	—	W	80·8	92·5	27th ,,	53·3	23rd, 28th Feb.	89·0	56·5	72·8	—	68·0
	Dinagepore	Dinagepore	29·812	29·936	— 060	SW	107·6	90·1	27th ,,	52·2	28th ,,	87·2	56·6	71·9	+3·0	63·4
	Rungpore	Rungpore	29·825	29·956	— 047	S	45·7	89·0	27th ,,	50·7	28th ,,	85·7	50·7	71·2	+3·3	65·1
	Julpigoree, Cooch Behar	Julpigoree	29·840	29·942	—·061	NW & E	165·0	85·6	27th & 28th Feb.	49·7	28th ,,	84·0	53·1	68·5	+3·8	62·9
	Darjeeling Hill Tracts	Darjeeling	22·935	—	—	SSW	200·2	55·5	27th ,,	37·8	28th ,,	54·0	39·6	46·8	+3·7	41·3
North Behar.	Purneah, North Bhagulpore	Purneah	29·815	29·948	— 04	South-westerly	126·1	87·7	27th ,,	50·0	28th ,,	85·5	54·9	70·2	+1·9	66·7
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga	29·776	29·951	— 042	WSW	101·6	87·9	20th Feb.	?	?	85·4	?	?	?	64·8
	Chumparun	Motihari	29·710	29·951	— 022	Variable	231·8	88·2	26th ,,	50·9	28th ,,	84·3	54·8	69·5	+4·0	59·8
	Saran	Chupra														
South Behar.	Shahabad	Dehree	29·641	30·109	+·015	NW	233·1	91·3	22nd ,,	50·5	23rd ,,	89·0	62·9	76·0	+0·1	59·2
		Buxar	29·720	29·979	—·025	W	107·4	85·8	28th ,,	55·4	2 rd ,,	86·5	59·5	74·0	+2·7	65·5
		Arrah	29·767	29·962	— 010	South-westerly	149·4	90·5	26th ,,	53·7	23rd ,,	88·1	57·5	72·8	+3·9	61·8
	Gya	Gya	29·687	29·961	—·021	S	101·6†	91·4	27th ,,	60·1	24th ,,	87·8*	63·0*	75·4*	+2·7*	69·2
	Patna	Bankipore	29·771	29·969	— 040	W	108·4	89·9	26th ,,	55·2	23rd ,,	86·6	59·8	73·2	+3·4	67·1
	South Bhagulpore, Monguyr	Bhagulpore	29·776	29·944	— 034	Calm & Westerly.	39·1	91·2	27th ,,	54·5	28th ,,	88·0	58·6	73·3	+3·9	68·0
	Sonthal Pergunnahs	Deoghur	29·457	29·975	—	Calm & NW	67·2	92·6	27th ,,	56·6	23rd ,,	89·0	59·0	74·0	—	68·5
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·939	30·001	—·011	South-westerly	123·2	86·9	27th ,,	57·4	28th ,,	84·7	59·4	72·1	+2·7	67·2
	Lohardugga, Manbhoom	Ranchee	27·816	29·978	—·004	Calm	144·3	87·2	25th ,,	55·4	23rd ,,	84·7	59·7	72·2	+2·3	69·0
	Singbhoom	Chyebassa	29·903	29·903	—	South-westerly	40·3	93·7	22nd ,,	59·0	23rd, 24th Feb.	91·4	61·3	76·4	—	68·6

* Means of six days. † Means of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average of means of the reading during the same period for the last The *humidity* of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rain fall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 28th of February 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week: Mean for district.	Of week: Normal mean.	Since 1st of month: Mean for district.	Since 1st of month: Normal mean.	Since 1st of month: Variation.	Since 15th May 1889: Mean for district.	Since 15th May 1889: Normal mean.	Since 15th May 1889: Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
84	0·6	Nil	Nil	0·14	Nil	0·83	−0·83	74·94	56·46	+18·48	0·0	0·3	Pooree	Pooree	Orissa.
70	0·3	Nil											Gopalpore		
94	4·0	Nil											False Point		
80	2·4	Nil	0·01	0·08	0·01	0·81	−0·80	66·40	52·79	+13·61	0·2	0·3	Cuttack ..	Cuttack	
77	0	0·16	0·08	0·24	0·08	1·06	−0·98	50·04	54·37	−4·33	0·3	0·4	Balasore .	Balasore	
92	3·0	0·11	0·07	0·28	0·07	1·38	−1·31	58·04	63·75	−5·11	0·7	0·4	Saugor Island ..	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
49	0·4	Nil	Nil	0·10	Nil	1·00	−1·00	46·89	52·57	−6·18	0·0	0·3	Midnapore	Midnapore	
84	1·3	Nil	Nil	0·15	Nil	1·25	−1·25	54·10	52·91	+1·19	0·0	0·3	Calcutta ..	24-Pergunnahs... ... Howrah .. .. Hooghly	
50	1·1	Nil	Nil	0·14	Nil	1·03	−1·03	43·89	47·74	−3·85	0·0	0·4	Burdwan .	Burdwan	
53	1·1	Nil	Nil	0·10	Nil	0·73	−0·73	55·93	53·01	+2·92	0·0	0·3	Bankoora .	Bankoora	
54	1·4	Nil	Nil	0·07	Nil	0·98	−0·98	53·46	53·60	−0·14	0·0	0·3	Raneegunge .	Beerbhoom ... .. West Burdwan ..	
74	1·1	Nil	Nil	0·05	Nil	0·79	−0·79	51·17	51·34	−0·17	0·0	0·2	Berhampore	Moorshedabad .	
58	1·4	Nil	Nil	0·12	Nil	1·04	−1·04	51·61	50·18	+1·43	0·0	0·3	Krishnaghur .	Nuddea	
55	1·1	Nil	Nil	0·19	Nil	1·11	−1·11	54·75	54·33	+0·42	0·0	0·3	Jessore ..	Jessore ... .. Khoolna	
84	2·3	Nil	Nil	0·13	Nil	0·73	−0·73	100·35	114·51	−14·16	0·0	0·3	Chittagong ..	Chittagong	East Bengal.
				0·15		0·89			82·49			0·4	Demagiri ..	Chittagong Hill Tracts	
93	1·4	Nil	Nil	0·15	Nil	1·05	−1·05	78·41	78·06	+0·35	0·0	0·4	Barrisal ...	Backergunge	
85	0	Nil	0·07	0·16	0·07	1·05	−0·98	90·89	108·16	−17·27	0·5	0·4	Noakholly .	Noakholly	
79	0·4	Nil	Nil	0·22	Nil	1·20	−1·20	61·28	56·02	+5·30	0·0	0·4	Furreedpore ..	Furreedpore	
87	1·3	Nil	Nil	0·19	Nil	1·20	−1·20	76·19	60·80	+15·39	0·0	0·4	Dacca	Dacca	
90	1·6	Nil	Nil	0·14	Nil	1·02	−1·02	56·62	70·33	−13·71	0·0	0·4	Commillah ..	Tipperah	
79	0·6	Nil	Nil	0·09	Nil	0·92	−0·92	88·78	68·23	+20·55	0·0	0·3	Mymensingh	Mymensingh	
63	0	Nil	Nil	0·01	Nil	0·78	−0·78	65·62	58·01	+7·61	0·0	0·1	Bogra ...	Bogra	North Bengal.
73	0·7	Nil	Nil	0·07	Nil	1·05	−1·05	55·37	54·40	+0·97	0·0	0·2	Serajgunge .	Pubna	
65	0·4	Nil	Nil	0·01	Nil	0·70	−0·70	54·35	54·58	−0·23	0·0	0·1	Rampore Beauleah	Rajshahye	
55	0	0·06	0·03	0·01	0·03	0·59	−0·56	39·79	54·81	−15·02	0·5	0·1	Maldah .	Maldah	
68	0·3	Nil	Nil	0·01	Nil	0·48	−0·48	57·49	57·88	−0·39	0·0	0·1	Dinagepore .	Dinagepore	
67	0	Nil	Nil	0·02	Nil	0·43	−0·43	85·87	74·26	+11·61	0·0	0·1	Rungpore ...	Rungpore	
77	0		Nil	0·03	Nil	0·39	−0·39	117·73	111·64	+6·09	0·0	0·1	Julpigoree ..	Julpigoree ... ... Cooch Behar	
74	4·0	Nil	Nil	0·13	Nil	0·67	−0·67	133·46	128·04	+11·42	0·0	0·3	Darjeeling ...	Darjeeling Hill Tract	
64	1·1	Nil	Nil	0·02	Nil	0·50	−0·50	75·00	59·18	+15·82	0·0	0·1	Purneah	Purneah ... ... North Bhagulpore ...	North Behar.
			0·02	0·03	0·02	0·39	−0·37	48·35	43·93	+4·42	0·3	0·1	Muzufferpore ...	Muzufferpore	
63	1·9	Nil	Nil	Nil	Nil	0·40	−0·40	52·11	45·12	+6·99	0·0	0·0	Durbhunga ...	Durbhunga	
77	2·3	Nil	Nil	0·01	Nil	0·38	−0·38	63·96	47·17	+16·79	0·0	0·1	Motihari	Chumparun	
			Nil	0·05	Nil	0·45	−0·45	40·13	43·43	−3·30	0·0	0·1	Chupra ..	Sarun	
42	2·1	Nil											Dehree ...		
51	2·1	0·01	0·02	0·03	0·02	0·40	−0·38	40·09	40·48	−0·39	0·2	0·1	Buxar .	Shahabad	South Behar.
55	2·1	0·04											Arrah		
70	2·0	Nil	0·02	0·03	0·02	0·42	−0·40	37·09	42·04	−4·95	0·2	0·1	Gya .	Gya	
48	1·4	0·03	0·01	Nil	0·01	0·41	−0·40	43·50	41·73	+1·77	0·5	0·0	Bankipore ...	Patna	
53	1·6	0·02	0·04	0·03	0·04	0·52	−0·48	42·47	43·69	−1·22	0·4	0·1	Bhagulpore ...	South Bhagulpore .. Monghyr . ..	
45	0·4	Nil	Nil	0·03	Nil	0·47	−0·47	54·15	51·26	+2·89	0·0	0·1	Deoghur ..	Sonthal Pergunnahs...	
34	1·1	Nil	Nil	0·06	Nil	0·59	−0·59	43·03	51·05	−8·02	0·0	0·2	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
42	1·6	Nil	Nil	0·09	Nil	0·72	−0·72	44·34	49·85	−5·51	0·0	0·2	Ranchi ..	Lohardugga	
			Nil	0·03	Nil	0·94	−0·94	38·36	47·86	−9·50	0·0	0·2		Manbhoom	
50	0·7	Nil	Nil	0·04	Nil	0·84	−0·84	48·76	52·42	−3·66	0·0	0·3	Chyebassa ...	Singbhoom	

ten years. Th variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
quoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1889.	Average rainfall from 16th May to date
			Saturday, 22nd February.	Sunday, 23rd February.	Monday, 24th February.	Tuesday, 25th February.	Wednesday, 26th February.	Thursday, 27th February.	Friday, 28th February.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·86	80·71	52·18
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	76·57	57·18
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·98	65·50	49·99
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·81	77·00	64·69
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	.....	.....	.....	.....	.....	.....	...	Nil	Nil	Nil	0·61	74·49	47·69
		Banki ..	.....	.....	.....	.....	0·07	.....	0·02	2	0·09	0·09	0·73	52·52	50·23
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	75·18	57·07
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	72·24	53·93
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·25	57·04	54·70
		Dharmsala	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·25	?
		Salipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·47	?
	Balasore	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·01	55·04	51·48
		Bhuddruck ...	.....	.....	.....	.....	0·30	.....	.....	1	0·30	0·30	1·32	57·96	53·02
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	46·08	51·96
		Balasore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·36	46·61	59·30
		Jellasore ..	.....	.....	.....	.....	.....	.....	0·15	1	0·15	0·15	1·02	39·74	54·94
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	54·79	54·57
South-West Bengal.	Midnapore ..	Contai .	.....	.....	.....	.....	.....	.....	0·09	1	0·09	0·09	1·33	55·27	52·60
		Saugor Island	.....	.....	.....	.....	.....	.....	0·11	1	0·11	0·11	1·13	56·85	53·24
		Tumlook ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·22	49·60	52·42
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	46·26	49·80
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	43·30	55·45
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·84	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·29	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·08	63·79	60·21
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·85	?
		Alipore Jail ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·47	52·87	57·32
		Barrackpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·27	53·13	51·13
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	55·43	52·83
		Baraset ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·29	58·71	51·26
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·04	62·41	55·89
	Howrah ..	Howrah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·09	50·64	53·00
		Mohesreka ... (*Colcherish.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·45	55·04	53·44
	Hooghly .	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·24	55·63	51·37
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·24	57·53	49·41
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·27	41·61	50·22
	Burdwan .	Culna .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·06	41·32	45·43
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·86	47·25	48·08
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·10	43·11	48·26
		Ranegunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·19	55·90	50·21
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·80	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·87	50·86	52·35
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·77	57·49	52·75
		Maliara ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64		52·57
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	55·91	54·87
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·14	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40 44	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39 17	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·44	?
	Beerbhoom	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	59·06	54·63
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·97	47·07	55·27
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·83	47·78	52·37
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·04	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·10	?
	Nuddea ..	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·93	50·10	47·99
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·04	42·95	47·08
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·11	49·86	52·10
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·03	55·15	48·51
		Koushtea	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·11	50·06	55·53
	Khoolna .	Satkhira .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·93	54·54	56·09
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·31	55·48	62·81
		Khoolna ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	56·82	55·94
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·16	52·01	47·13
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·09	53·90	55·44
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·10	50·74	55·45
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·05	50·90	50·21
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·0	47·04	54·86
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 80	55·38	51·27
		Berhampore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	46·28	52 30
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	47·13	51·47
		Asimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·70	?	51·26
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·71	55·01	49·94
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·85	52·02	51·59
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·29	?
		Akhriguaj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·00	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ..	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	123·59	136·30
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·96	77·08	95·38
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·06	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	0·88	1	0·88	0 88	1·10	64·00	84·84
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	67·20	81·18
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·15	87·66	88·93
		Perozpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·29	72·64	71·31
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	73·21	68·75
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·78	80·09	82·79

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 1890—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 22nd February.	Sunday, 23rd February.	Monday, 24th February.	Tuesday, 25th February.	Wednesday, 26th February.	Thursday, 27th February.	Friday, 28th February.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
t Bengal—concld.		*Gourneddi* ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·31	?
		Bauphal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	93·12	?
	Noakholly ...	Noakholly	......	......	......	......	......	......	......	Nil	Nil	Nil	0·91	102·58	108·71
		Fenny	......	......	......	......	......	......	0·18	1	0·13	0 13	1·19	79·16	107·91
		Harishpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	83·32	?
		Ramganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·97	62·08	56·52
		Furreedpore	......	......	......	......	......	......	......	Nil	Nil	Nil	1·41	65·60	57·67
		Goalundo	......	......	......	......	......	......	......	Nil	Nil	Nil	1·22	58·05	54·16
	Dacca ...	Munshigunge	......	......	......	......	......	......	......	Nil	Nil	Nil	1·35	77·51	71·43
		Dacca	......	......	......	......	......	......	......	Nil	Nil	Nil	1·15	76·45	59·53
		Naraingunge	......	......	......	......	......	......	......	Nil	Nil	Nil	1·16	81·14	60·94
		Manickgunge	......	......	......	......	......	......	......	Nil	Nil	Nil	1·15	69·67	51·15
		Joydebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	?	63·55	?
	Hill Tipperah	Agartola ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·03	44·38	62 58
	Tipperah ...	Comilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·87	62·97	76·98
		Chandpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·89	65·97	76·68
		Brahmunberia	......	......	......	......	......	......	......	Nil	Nil	Nil	1·30	53·12	63·01
		Ramchandrapore.	......	......	......	......	......	......	......	Nil	Nil	Nil	?	60·82	?
		Nasirnagar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	32·39	?
		Daudkandi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·73	?
		Kasba ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	62 44	?
		Laksham ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·48	?
	Mymensingh..	Kishoregunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·86	70·80	70·93
		Atia (*Tangail*)	......	......	......	......	......	......	......	Nil	Nil	Nil	1·18	62·69	56·61
		Mymensingh	......	......	......	......	......	......	......	Nil	Nil	Nil	1·01	97·93	74·99
		Jamalpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·07	80·01	65·25
		Netrokona ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·46	126·47	73·20
		Subornakhally	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	150·28	?
		Sherepore Town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	88·17	?
		Dewanganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·08	?
North Bengal.	Pubna ...	Pubna ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·09	50·20	54·78
		Serajgunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·01	60·51	53·80
	Bogra ...	Sherepore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·90	62·67	59·32
		Nowkhilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·85	62·44	55·05
		Bogra ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·85	71·33	61·44
		Panchbibi	......	......	......	......	......	......	......	Nil	Nil	Nil	0·52	65·96	56·21
	Rajshahye ...	Beauleah	......	......	......	......	......	......	......	Nil	Nil	Nil	0·79	46·34	53·70
		Nattore .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·89	58·84	55·81
		Naogaon .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	57·87	51·83
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	36·72	?
		Manda	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah	......	......	......	......	0·06	......	......	1	0·06	0·06	0·52	50·50	52·24
		Chanchal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·66	28·96	57·87
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	51·77	?
	Dinagepore ...	Mohadebpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·64	53·63	57 03
		Churamon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·47	51·82	53·05
		Raigunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·51	52·37	58·34
		Dinagepore .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·50	68·33	63·92
		Balurghat	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	61·29	51·81
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	Nil	?	87·81	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·61	88·30	62·17
		Rungpore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	74·98	74·94
		Kurigram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 31	91·64	73·03
		Bagdogra (*Nilphamari*).	......	......	......	......	......	......	......	Nil	Nil	Nil	0·52	88·40	85·66
		Ulipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	79·10	?
	Julpigoree ...	Julpigoree ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 28	123·45	117·28
		Alipore Door	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	128·23	?
		Debiganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	90·94	?
		Bhayatpore (Nagrakatta).	......	......	......	......	......	......	......	Nil	Nil	Nil	?	139·22	?
	Cooch Behar..	Dinhatta	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	98·83	96·80
		Cooch Behar..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·29	125·89	118·59
		Mekligunge..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·53	132·40	106·27
		Matabhanga...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·45	118·03	112·09
	Darjeeling Hill.	Buxa .	......	......	......	......	......	0·01	......	1	0·01	0·01	0·86	192·38	193·71
		Silliguri ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·28	121·08	103·69
		Darjeeling ...	......	......	......	......	......	......	......	Nil	Nil	0·01	0·82	128·28	109·57
		Kalimpong .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·73	92·15	84·70
		Kurseong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	170·23	?
rth Behar	Purneah ..	Kissengunge...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·44	103·67	70·67
		Arrareah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·53	79·75	64·21
		Purneah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·56	63·47	62·16
		Gondwara ...	......	......	......	......	0·02	......	......	1	0·02	0·02	?		?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Mansari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Kaliaganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·56	60·85	50·11
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	67·26	48·57
		Protabganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	-	88·16	?
	Durbhunga ...	Tajpore ...	......	......	......	......	0·01	......	......	1	0·01	0·01	0·38	42·58	43·61
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·43	50·24	46·29
		Madhubani ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·39	63·56	45·47
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	69·96	?
		Roshera ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·84	?
	Mozufferpore	Sitamarhi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·30	55·45	43·43
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	48·47	45 99
		Hajipore ...	......	......	......	......	0·05	......	......	1	0 05	0·05	0·46	42·63	42·51
		Para ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	37·69	?
		Mahua ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	41·03	?
		Seuhar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Pupri ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	48·14	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 1890—cond

Meteorological Division.	District.	Station.	Rainfall. Saturday, 22nd February.	Sunday, 23rd February.	Monday, 24th February.	Tuesday, 25th February.	Wednesday, 26th February.	Thursday, 27th February.	Friday, 28th February.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date
North Behar —*concluded*	Chumparun...	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	78·33	
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	52·67	
		Ragaha	.....	.....	.....	.....	0·09	.....	.....	1	0·09	?		70·33	
		Burhurwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?		51·70	
	Sarun	Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	35·48	
		Sewan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	44·20	
		Chuprah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	40·74	
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	47·44	
		Dehree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	43·08	
		Bhaboosh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	38·16	
		Sasseram	.....	.....	.....	0·05	.....	.....	.....	1	0·05	0·05	0·46	29·46	
		Arrah	.....	.....	.....	.....	0·04	.....	.....	1	0·04	0·04	0·45	43·73	
		Mohaniah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	35·42	
		Gya	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	39·85	
		Nowadah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	39·59	
		Johanabad	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·40	33·47	
		Arwal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·34	
		Daudnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28·69	
		Sherrghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	17·92	
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	
	Patna	Patna	.....	.....	.....	.....	0·03	.....	.....	1	0·03	0·03	0·38	51·52	
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	45·53	
		Behar	.....	.....	.....	.....	0·02	.....	.....	1	0·02	0·02	0·52	41·10	
		Barrh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	35·83	
		Bickram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		41·28	
		Hilsa	.....	.....	.....	.....	0·05	.....	.....	1	0·05	0·05	?	35·20	
	Monghyr	Begoosarai	.....	.....	.....	.....	0·08	.....	.....	1	0·08	0·08	0·53	47·70	
		Monghyr	.....	.....	.....	.....	0·10	.....	.....	1	0·10	0·10	0·50	41·77	
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·00	39·48	
		Gogri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	
		Sheikpura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·32	
	South Bhagulpore	Bhagulpore	.....	.....	.....	.....	0·02	.....	.....	1	0·02	0·02	0·45	45·08	
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	38·34	
		Kalgong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	
		Bangaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	
	Sonthal Pergunnahs.	Rajmehal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	59·90	
		Godda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	49·04	
		Pakour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	73·59	
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	56·77	
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·63	40·40	
		Jamtara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	43·21	
		Mohagama	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	50·41	
		Namhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·87	
Chutia Nagpur.	Hazaribagh	Paonamba (*Giridi*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	38·90	
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	49·10	
		Semtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	36·24	
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58		
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	43·00	
		Barki	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·36	
		Chatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·04	
		Karogdaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·35	
		Kamghar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
	Lohardugga	Lohardugga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	45·24	
		Ranchi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·10	53·61	
		Palamow	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	34·16	
		Silli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·80	
		Balumat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	
		Hosseinabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·40	
		Garwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28·77	
	Singbhoom	Chyebassa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	46·76	
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·80	
		Ghatsilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·70	
		Baharagora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·80	
	Manbhoom	Purulia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·99	45·33	
		Gobindpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·88	33·10	
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·32	
		Jhalda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·42	
		Chas	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·56	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 5th March* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH FEBRUARY 1890.

THE meteorological conditions of the previous week were those which generally prevail immediately before the commencement of the hot season in Bengal. Pressure was in decided defect of the normal; temperature was from 3° to 5° above the normal, while humidity was rather high, and the winds blowing generally were showing a more strongly-pronounced southerly element in them than they had done in the week before In all these circumstances there were decided indications that the period of the north-east monsoon was drawing to a close. On the 22nd pressure generally increased slowly at the northern stations and fell over the southern half of the province; temperature generally also rose slowly, though the light wind current blowing over the province was a little more northerly than it had hitherto been, and weather continued quite fine. On the 23rd a further rise of pressure took place, but on this day it was accompanied by a decided fall of temperature, the fall at some stations equalling 3° and 4°. Winds also on the 23rd were westerly and north-westerly at the majority of stations On the 24th there was a further slight fall of pressure, greatest over parts of North Bengal, but temperature had risen by an average amount of about 1° to 2°. Wind directions on this day again became distinctly more southerly at the southern stations, but weather remained fine On the 25th there was a further rapid fall of pressure over North Bengal and part of Behar, resulting in the formation of a feeble but distinct low-pressure area, round which there was a very partial cyclonic circulation of winds. The slight disturbance appears, however, to have been sufficiently influential to produce a few dust storms and nor'-westers, in some cases accompanied by light rain, and on the morning of the 26th about eight or ten stations in Behar reported slight showers. Temperature generally rose on the 25th, but on the 26th there was rather a sharp fall, due perhaps to the effect of the slight disturbances on the 25th, the fall at several stations exceeding 5°. Pressure continued to fall on the 26th, when it was decidedly low over practically the whole of Bengal, and winds on this day became more or less southerly at almost all stations. On the 27th pressure had risen rather rapidly over the whole province, but still there was a feeble area of low pressure over North Bengal and North Behar; temperature rose rapidly over the whole area except the western part of Behar, the rise at many stations ranging from about 3° to 6°, and winds became less southerly and more strongly westerly than they were. On the 28th, or the last day of the week, a further rapid rise of pressure took place, the increase being largest in North Bengal, and thus the low-pressure area, which had previously existed, was almost entirely filled up. On the 28th winds became decidedly more northerly than they had been, and this at once caused a rapid fall of temperature, the fall in the 24 hours in some cases ranging up to nearly 8°. On the 28th also a few showers were reported in East and South Bengal and in Orissa, but they were of little importance.

Pressure.—The mean pressure for the week has been below the normal in all districts. The usual defect has been from three to four hundredths of an inch, but in North Bengal and North Behar it has equalled from four to six hundredths of an inch while in Chutia Nagpur it has only been about one hundredth of an inch.

Temperature.—As noticed in the general summary, there have been rather large and sudden changes of temperature during the week, but on the whole there has been a distinct increase in all districts. The general rise in the various districts over the mean temperature of the previous week generally ranges from about one and-a-half to three degrees, and for the seven large meteorological divisions it averages about two degrees. The general average temperatures in the various districts continue to be about two to four degrees above the normal for the season, and the average excess equals almost three degrees. Some very high maximum temperatures have been recorded during the week in the different districts, and thus in Orissa, Cuttack on the 28th registered 98·4°; in South-West Bengal, Midnapur on the 27th registered 96·3°; in South Behar, Nya Doomka registered 92·6° on the 27th, and in South Bengal, Maldah on the same date registered 92·5°.

The actual temperatures during the week, the range from day to night, and their variation from their normal values, are best seen in the following table, where the average, maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given together with their normal values. It will be seen that both day and night temperatures have been rather largely in excess, but that the day temperatures have shown greater excess than the minimum or night temperatures:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 28th February 1890.

	Normal mean maximum temperature for the week ending 26th February.	Actual mean maximum temperature for the week ending 24th February 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 28th February.	Actual mean minimum temperature for the week ending 28th February 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 28th February.	Actual mean daily temperature for the week ending 28th February 1890.	Variation of actual mean from the normal.
Cuttack	91·4	94·0	+2·6	68·0	69·3	+1·3	80·7	82·7	+2·0
Calcutta	85·4	88·4	+3·0	64·1	64·7	+·6	74·7	76·6	+1·9
Dacca	86·2	88·5	+2·3	61·6	63·6	+2·0	73·9	76·0	+2·1
Burdwan	87·4	91·5	+4·1	61·7	62·7	+1·0	74·5	77·1	+2·6
Patna	85·2	86·6	+3·4	56·1	59·8	+3·7	69·6	73·2	+3·6
Gya	84·2	87·8	+1·6	59·2	61·0	+1·8	72·7	75·4	+2·7
Purneah	83·1	85·5	+2·3	53·4	54·9	+1·5	68·3	70·2	+1·9
Hazaribagh	81·7	84·7	+3·0	57·4	59·4	+2·0	69·5	72·1	+2·6
Darjeeling	48·4	51·0	+2·6	36·9	39·6	+2·7	42·6	46·8	+4·2

Rainfall.—As stated previously, a few local showers have occurred in East Bengal, Orissa, and in Behar, but the amounts have been so small that the average falls in these districts only amount to a few hundredths of an inch The rainfall therefore during the week has been practically of no importance.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 28th of February 1890 :—

Meteorological Divisions.	Temperature						Rainfall									
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 16th May 1889.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average	Average.	Normal average.
Orissa*	98·4	60·6	89·6	68·6	79·1	+1·5	0 03	0 16	−0 13	0·2	0 3	−0·1	0·05	0 91	62·13	54·37
South-West Bengal ...	96 3	51·8	90·0	63·5	76·8	+2·5	Nil	0·15	−0·15	0 0	0·3	−0·3	Nil	1·06	52 81	53·00
East Bengal	90·6	57·0	86·8	63·7	75·2	+3·0	0·04	0·15	−0·11	0 1	0 4	−0·3	0·04	1 03	70 60	75·31
North Bengal	92 5	49·7	87·1	57·5	72·3	+3·8	Nil	0·02	−0 02	0 0	0 1	−0·1	Nil	0 57	73 54	71·00
North Behar*	89·2	50·0	84·9	54·9	69 9	+3·0	0·01	0·02	−0·01	0·1	0 1	0	0·01	0 43	57·90	49·22
South Behar*	92·6	53·7	87·9	60·0	73 9	+4·0	0·02	0·03	−0·01	0·3	0·1	+0·2	0·02	0·44	44·18	44·30
Chutia Nagpur	87·2*	55 4*	84·7*	59·6*	72 2*	+2 5*	Nil	0 03	−0 03	0 0	0 2	−0·2	Nil	0·67	43 08	50·24

* Pooree, Durbhanga, Chupra and Chyebassa not included.

Meteorological Office, Bengal;
The 4th March 1890.

A Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd February to 1st March 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches
Feb. 1890 ...	23rd .	29·995	77·0	89·0	24·1	64·9	79 1	69·6	·597	64 0	60	Nil
,, ,, ...	24th ...	·997	78·7	90·0	22 6	67·4	80 0	70 6	·623	65·2	60	.....
,, ,, ...	25th ...	30·009	77 0	88·0	22·1	65 9	77·6	72·6	·785	70·0	76	... ..
,, ,, ...	26th ...	29·951	78·2	92 0	27·6	64·4	81·6	70·6	·602	64·2	56	.. ..
,, ,, ...	27th ...	·979	78·9	90 4	23·0	67·4	81·8	68 6	·523	60·2	48	... ..
,, ,, ...	28th ...	30 017	76·7	88·0	22 7	65·3	82·0	62·7	·314	46 2	29	. .
Mar. ,, ...	1st ...	29 983	76·6	88·2	23·3	64·9	79 6	73·6	·749	70 6	74	.....

The mean 10 A.M. pressure of the seven days	Inches.	29·990
The mean temperature of the seven days	°	77·6
The extreme variation of temperature		27·6
The maximum temperature		92·0
The mean 10 A.M. relative humidity of the seven days	%	58
The total fall of rain from 23rd February to 1st March 1890 ...	Inches.	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India

Meteorological Office, India;
The 3rd March 1890.

MEMORANDUM.

DURING the month of December 1889, the total number of deaths registered in the 45 districts in Bengal amounted to 184,528, or at the rate of 33·60 per 1,000 among a population of 65,859,534, against 147,795, or 26·88 per 1,000 in the preceding month, 166,117, or 30·12 per 1,000 in December 1888, and an average of 157,454, or 28·68 per 1,000 in the corresponding month of the past five years 1884—88. There was thus a considerable increase of mortality in December 1889, as compared with corresponding past periods, which is due, not to the greater unhealthiness of December 1889, but to better registration in that month than in the corresponding periods of past years. Of the 184,528 deaths registered in December 1889, 95,844, or 35·16 per 1,000, were males, and 88,684, or 32 04 per 1,000, were females, the former being to the latter in the proportion of 109 to 100.

2. In the following districts deaths were registered at the highest-rates, the rates at which deaths were registered in the corresponding month of 1888 are also shown :—

Districts.	Ratio per *mille* during— Dec. 1889.	Dec. 1888.	*Districts.*	Ratio per *mille* during— Dec. 1889.	Dec. 1888.
Backerganj	55·92	41·40	Faridpore ...	41·40	28·44
Dinajpur	52·80	44·80	Dacca ...	40·32	38 60
Noakhali	52 68	38·64	Monghyr ...	39·00	28·44
Jessore	51·00	46·32	Tipperah ...	36·84	32·04
Julpaiguri	49·44	43 44	24-Pergunnahs ...	34·92	40·92
Poori	49·20	27·24	Pubna ...	34 68	32·64
Balasore	48·72	28·68	Midnapore ...	34·32	28 44
Cuttack	46·56	23·76	Maldah ...	34·20	56·76
Hughli, including Serampore ...	45·00	31·80	Chittagong ...	32·64	23·40
Bogra	45·00	30 72	Darjiling ...	32·04	28·20
Howrah	43·20	36·60	Bhagulpore ...	31·08	25 92
Rungpore	42 72	38·76	Birbhum ...	30 60	31 80
Rajshahye	42·68	33·60	Purneah ...	30·60	40·56
Khulna	42 12	45 60	Mymensing ...	30·36	24·60

3. The table in the margin exhibits the rates at which the population suffered from the various death-causes in December 1889 as compared with the corresponding month of the preceding year and the average rate of 1884—88 :—

	Ratio per *mille* during— December 1889.	December 1888.	Mean of previous five years, 1884—88.
Cholera	1·80	1·92	2·40
Small-pox	·08	·07	·04
Fever	25·32	22·56	21·24
Bowel-complaints	·96	·84	·84
Injury	·12	·12	·12
Other causes	4·92	4·44	3·72

It will be seen that the mortality from fever was, as usual, very high, and that there were more deaths from the diseases classed under the head of "Other causes" in December 1889 than in the past periods with which that month is compared.

4. The districts in which the greatest loss of life occurred from cholera, fever, and the unspecified maladies coming under the head of "Other causes" are :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other Causes.*	Ratio per *mille.*
Faridpore	9·36	Dinajpur	49 32	Poori	24·96
Dacca	7 20	Julpaiguri	46·56	Backerganj ...	17·16
Jessore	7·08	Noakhali	44·64	Cuttack	12 00
Howrah	6·48	Jessore	40·68	Balasore	11·88
Poori	6 02	Rungpore	39·96	Sarun	10·08
Cuttack	4 92	Rajshahye	37·68		
Balasore	4·32	Bogra	37·32		
24-Pergunnahs ...	3·84	Backerganj	34·44		
Tipperah	3·84	Monghyr	33·12		
Hughli, including Serampore.	3·60	Pubna	32·04		
Khulna	3·12	Khulna	31·56		
Backerganj	3·00	Maldah	31·08		
Noakhali	2·40	Hughli, including Serampore.	30·60		
		Purneah	29·40		
		Chittagong	27·60		
		Faridpore	26·04		
		Darjiling	25·80		
		Tipperah	25·80		
		Bhagulpore	25 32		
		Cuttack	25·32		

Small-pox prevailed noticeably high only in the Poori district (mortality 1·32 per 1,000 of population).

5. The following statement shows the rates of mortality distributed according to *Class* and *Age*.

According to Class.	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Christians	18·48	Under 1 year	253·68
Hindus	33·04	1 and under 5 years	36·96
Mahomedans	38·04	5 „ 10 „	16·92
Buddhists	28·68	10 „ 15 „	13·44
Other classes	17·04	15 „ 20 „	20·40
		20 „ 30 „	19·92
		30 „ 40 „	22·56
		40 „ 50 „	30·84
		50 „ 60 „	48·12
		60 years and upwards	91·44

W. H. GREGG, *Dep. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

The 4th March 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of December 1889

1. Divisions.	2. Districts.	3. Population. Males.	Population. Females.	Population. Total.	4. Mortality according to— Disease. Deaths from— Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	5. Ratio per 1,000 of population per annum. Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	6. Comparison with previous periods. Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	7. Sex. Deaths among— Males.	Females.	8. Ratio per 1,000 of population per annum. Males.	Females.	9. Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
BURDWAN	Burdwan	663,295	723,528	1,391,823	33	...	2,587	90	12	611	3,273	·24	..	21·72	·72	·09	5·16	28·20	24·48	25·33	1,674	1,599	30·00	26·52	113
	Bankura	507,136	534,616	1,041,752	4	...	1,330	34	9	235	1,662	·05	...	15·12	·36	·09	3·36	19·08	15·72	19·44	913	749	21·60	16·80	122
	Birbhum	381,563	412,865	794,428	94	...	1,445	10	18	465	2,027	1·32	...	21·72	·18	·18	6·96	30·60	25·44	31·80	1,042	985	32·76	29·56	114
	Midnapore	1,243,195	1,272,370	2,515,565	405	60	5,167	338	34	1,204	7,208	1·92	·24	24·60	1·56	·12	5·64	34·72	25·44	33·41	3,531	3,677	34·08	34·56	96
	Hughli	315,665	347,385	663,050	81	2	1,512	176	9	307	2,127	1·44	·03	28·08	3·12	·12	5·52	38·40	35·49	33·14	1,097	1,030	41·28	35·52	116
	Serampore	174,366	177,389	351,655	233	5	1,044	197	11	192	1,682	7·92	·15	35·52	6·60	·36	6·48	57·24	47·04	31·20	857	825	58·92	55·68	105
	Total (Hughli including Serampore).	490,031	524,974	1,015,005	314	7	2,596	373	20	499	3,809	3·60	·07	30·60	4·32	·12	5·88	45·00	39·36	31·80	1,954	1,855	47·76	42·36	112
PRESIDENCY	Howrah	316,479	318,902	635,381	348	4	1,068	408	21	444	2,293	6·48	·07	21·16	7·68	·36	8·23	43·20	29·64	36·60	1,182	1,111	41·76	41·76	103
	24-Pergunnahs	860,841	812,521	1,673,362	541	23	3,504	242	63	502	4,880	3·34	·18	25·08	1·68	·36	3·48	34·93	23·40	40·92	2,564	2,316	35·64	34·20	104
	Nuddea	805,779	849,942	1,655,721	300	...	2,938	35	18	544	3,785	1·44	...	21·00	·24	·12	3·84	27·36	21·72	39·40	1,994	1,791	29·64	25·20	113
	Jessore	959,271	980,104	1,939,375	1,154	1	6,390	40	40	420	8,245	7·08	·006	40·63	·24	·24	2·53	51·00	37·92	46·32	4,077	4,168	51·00	51·00	100
	Murshidabad	586,483	640,307	1,226,790	71	...	2,264	21	18	253	2,627	·60	...	22·08	·12	·18	2·40	25·68	24·60	35·16	1,400	1,227	28·56	22·92	124
	Khulna	568,402	511,546	1,079,948	287	...	2,811	34	29	619	3,800	3·12	...	31·56	·36	·24	6·73	42·12	32·16	43·60	1,841	1,959	38·76	45·84	85
RAJSHAHYE	Dinagepur	782,292	732,054	1,514,346	47	1	6,230	13	23	354	6,668	·38	·007	49·32	·09	·12	2·76	52·80	33·48	47·64	3,447	3,221	52·80	51·72	103
	Rajshahye	660,710	678,893	1,339,603	175	...	4,218	30	22	298	4,743	1·56	...	37·68	·24	·12	2·64	42·64	31·08	33·60	2,506	2,237	45·48	39·43	116
	Rungpore	1,067,701	1,030,263	2,097,964	34	1	6,991	16	14	430	7,486	·12	·004	39·96	·08	·07	2·40	42·72	28·92	38·76	3,880	3,606	39·84	42·00	94
	Bogra	372,193	361,200	733,393	64	...	2,296	12	11	380	2,753	·96	..	37·32	·12	·12	6·12	45·00	24·72	30·72	1,390	1,363	41·76	45·24	98
	Pubna	648,311	663,417	1,311,728	131	..	3,509	25	16	117	3,798	1·02	...	32·04	·11	·12	·96	34·68	24·00	32·64	2,027	1,771	37·44	31·92	117
	Darjiling	89,351	66,294	155,645	...	...	356	18	4	39	417	..	...	25·80	2·88	·24	3·00	32·04	23·80	28·20	242	175	32·40	32·56	99
	Julpiguri	305,972	276,418	582,390	...	...	2,261	13	15	111	2,402	...	...	46·56	·24	·24	2·23	49·41	35·40	43·44	1,244	1,158	43·72	50·04	97
DACCA	Dacca	1,033,963	1,082,427	2,116,360	1,370	2	3,953	383	49	1,434	7,112	7·20	·01	22·56	2·16	·12	8·04	40·32	24·12	34·60	3,791	3,321	43·92	36·72	119
	Faridpore	805,989	825,745	1,631,734	1,277	11	3,545	73	20	716	5,642	9·36	·07	26·04	·48	·12	5·16	41·40	27·12	29·44	2,933	2,709	43·56	39·36	113
	Backergunj	973,479	927,410	1,900,889	486	...	5,474	121	52	2,736	8,849	3·00	...	34·44	·72	·24	17·16	55·92	37·08	44·40	4,397	4,472	54·12	57·84	93
	Mymensing	1,555,840	1,501,103	3,054,943	476	41	6,086	108	12	1,010	7,750	1·80	·12	23·88	·36	·08	3·96	30·36	19·56	24·60	4,220	3,530	32·52	28·20	115
CHITTAGONG	Chittagong	531,649	600,692	1,132,341	52	2	2,613	144	28	243	3,084	·48	·01	27·60	1·44	·24	2·52	32·64	22·80	23·40	1,545	1,537	34·80	30·60	113
	Noakhali	415,248	405,524	820,772	163	...	3,056	40	31	311	3,643	2·40	..	45·64	·43	·36	4·44	52·68	32·40	38·64	1,914	1,729	52·32	52·80	99
	Tipperah	768,450	745,911	1,514,361	495	2	3,256	90	35	781	4,659	3·84	·01	25·80	·60	·24	6·12	35·84	23·40	32·04	2,389	2,270	33·16	36·48	104
PATNA	Patna	856,601	895,058	1,751,659	2	19	2,876	201	37	624	3,783	·12	·12	19·68	1·38	·24	4·30	25·50	27·00	20·16	1,920	1,863	26·85	24·95	107
	Gya	1,043,441	1,081,241	2,124,682	14	23	4,348	30	52	575	5,060	·07	·12	21·48	·12	·24	3·24	24·56	32·78	30·60	2,611	2,449	30·24	27·12	111
	Shahabad	950,254	1,014,659	1,964,909	17	32	3,993	35	48	556	4,681	·09	·12	24·36	·18	·24	3·36	28·36	33·60	33·24	2,596	2,085	31·76	24·60	133
	Mozufferpore	1,265,731	1,316,329	2,582,060	18	4	3,568	130	49	366	4,135	·07	·01	16·56	·60	·12	1·56	19·20	19·92	17·40	2,231	1,904	21·12	17·28	122
	Durbhanga	1,295,788	1,337,659	2,633,447	156	5	3,896	135	42	321	4,557	·60	·02	17·64	·60	·12	1·44	20·76	22·08	16·08	2,519	2,038	23·28	18·24	127
	Sarun	1,085,847	1,199,832	2,285,679	30	11	1,725	240	43	1,942	3,991	·12	·04	9·00	1·20	·12	10·08	20·88	21·72	18·84	2,240	1,751	24·72	17·52	141
	Chumparun	870,627	850,981	1,721,608	10	59	2,959	17	36	568	3,659	·06	·36	20·64	·10	·24	3·84	24·44	22·32	24·12	1,954	1,705	26·88	24·00	111
BHAGULPORE	Monghyr	969,124	1,000,650	1,969,774	44	4	5,437	49	40	819	6,403	·24	·03	33·12	·24	·24	4·92	39·00	40·32	23·44	3,251	3,151	40·20	37·68	106
	Bhagulpore	979,119	987,039	1,966,158	24	5	4,166	58	23	818	5,094	·12	·02	25·32	·24	·12	4·92	31·08	32·28	23·92	2,632	2,462	32·16	29·88	107
	Purneah	937,080	911,607	1,848,687	74	...	4,534	14	10	79	4,716	·48	...	29·40	·03	·06	·48	30·60	22·03	40·56	2,504	2,212	33·04	29·16	109
	Maldah	346,998	363,450	710,448	90	...	1,843	2	13	80	2,028	1·44	...	31·08	·02	·12	1·32	34·20	26·76	56·76	1,149	879	38·24	29·92	125
	Sonthal Pergunnahs	785,330	782,763	1,568,093	10	8	1,772	26	14	213	2,043	·07	·06	13·36	·12	·09	1·56	15·60	14·89	13·20	1,173	870	17·88	13·32	134
ORISSA	Cuttack	877,702	917,363	1,795,065	747	12	3,797	563	56	1,798	6,973	4·92	·07	25·32	3·73	·36	12·09	46·56	37·09	25·76	3,364	3,609	45·96	47·16	97
	Poori	446,409	441,878	888,287	451	99	816	393	32	1,851	3,645	6·09	1·33	10·92	5·28	·36	24·96	49·20	35·04	27·24	1,808	1,837	48·48	49·80	97
	Balasore	461,461	483,819	945,280	343	5	1,840	697	21	938	3,844	4·32	·06	23·28	8·76	·24	11·83	48·72	34·56	23·68	1,901	1,943	49·32	48·12	102
CHOTA NAGPORE	Hazaribagh	544,903	559,839	1,104,742	...	2	2,091	47	26	250	2,416	...	·01	22·08	·48	·24	2·64	26·16	27·24	35·48	1,293	1,123	28·44	24·00	118
	Lohardugga	796,657	812,587	1,609,244	...	...	1,793	113	14	522	2,442	...		13·32	·84	·09	3·84	18·12	17·64	25·08	1,347	1,095	20·16	16·08	125
	Singbhum	226,681	227,094	453,775	1	1	510	27	17	116	672	·03	·02	13·44	·60	·36	3·00	17·76	15·84	22·20	352	320	18·60	16·92	110
	Manbhum	525,328	532,900	1,058,228	...	23	1,395	67	14	298	1,796	...	·24	15·72	·72	·12	3·38	20·28	16·08	19·32	1,005	791	22·92	17·76	129
	TOTAL FOR THE PROVINCE.	32,663,700	33,195,834	65,859,534	10,181	471	139,537	5,581	1,193	27,565	184,523	1·80	·08	25·32	·96	·13	4·92	33·60	26·88	30·12	95,544	88,684	35·16	33·04	109

DIVISIONS.	DISTRICTS.	10. Mortality according to Class — Deaths among — Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	11. Ratio per 1,000 of population per annum — Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	12. Mortality according to Age — Deaths — Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	13. Ratio per 1,000 of population per annum — Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	2,682	591	...	...	...	28·88	28·88	...	...	630	553	194	135	200	393	373	354	293	451	240·12	22·9[illegible]	13·92	12·12	19·56	18·18	20·40	27·94	34·92	68·16
	Bankura	...	1,445	64	...	119	...	19·56	16·50	...	13·98	293	183	101	70	109	160	184	154	154	244	127·92	17·04	8·04	7·14	13·80	10·64	15·00	17·00	30·36	53·40
	Birbhum	1	1,585	419	...	22	249·96	30·72	30·54	...	15·84	535	540	161	68	94	159	190	149	153	261	384·61	36·00	19·56	10·08	16·[illegible]0	16·08	17·52	20·64	31·56	67·08
	Midnapore	1	6,584	406	...	303	16·29	34·92	29·16	...	30·84	1,592	616	442	224	367	734	646	664	602	1,069	301·32	34·12	15·24	10·92	19·20	13·43	22·80	33·9[illegible]	50·52	91·60
	Hughli	...	1,689	438	...	...	...	37·9[illegible]	40·47	...	...	421	239	124	61	102	283	221	206	193	271	297·81	48·36	22·56	11·76	20·40	26·16	24·96	32·64	48·36	87·96
	Serampore	...	1,429	253	...	...	...	58·80	50·88	...	...	240	180	164	109	105	216	182	153	154	184	287·40	67·68	59·92	4·81	40·08	31·80	37·56	44·[illegible]	73·08	115·92
	Total (Hughli including Serampore).	...	3,118	691	...	...	...	45·36	43·68	...	...	661	418	295	170	207	488	405	339	347	459	294·[illegible]	55·[illegible]	34·56	22·08	27·24	25·28	29·40	36·96	56·88	97·56
Presidency	Howrah	3	1,768	322	...	...	17·32	42·24	47·40	...	...	421	274	171	105	117	223	225	195	161	412	270·60	49·3[illegible]	34·28	20·52	24·48	31·96	28·68	34·44	33·48	127·44
	24-Pergunnahs	27	3,104	1,745	...	...	31·80	35·83	31·48	...	...	896	676	439	206	304	536	487	406	301	747	181·44	42·84	23·52	17·61	26·76	20·64	23·40	30·60	45·60	88·08
	Nuddea	16	1,727	2,042	...	...	29·38	28·44	26·52	...	...	725	516	36[illegible]	172	166	328	341	319	251	604	2[illegible]8·81	37·48	17·16	11·88	16·32	15·00	18·00	22·92	28·08	69·24
	Jessore	3	3,319	4,923	...	...	71·08	51·72	50·40	...	...	1,003	1,359	891	481	494	911	797	733	562	1,021	233·76	21·1[illegible]	36·84	29·52	39·96	33·60	38·24	45·12	53·76	1[illegible]1·56
	Murshidabad	...	1,474	1,113	...	...	...	27·81	23·41	...	...	451	334	237	104	140	261	269	231	201	410	191·2[illegible]	24·30	15·12	10·20	17·14	15·36	14·36	22·32	31·32	63·36
	Khulna	8	1,715	2,182	...	...	48·12	39·24	41·38	...	...	731	561	246	110	181	414	382	293	225	611	391·96	52·68	20·16	12·72	21·56	27·81	30·84	34·68	43·56	117·36
Rajshahye	Dinajpur	...	2,799	3,864	...	5	...	46·80	58·20	...	41·76	1,234	1,177	543	243	369	816	766	610	380	463	429·72	51·24	23·48	23·40	37·80	35·01	40·56	48·96	57·12	75·48
	Rajshahye	...	956	3,787	...	...	...	39·60	43·20	...	...	941	790	465	219	390	540	645	419	242	373	321·72	53·32	24·90	19·5[illegible]	35·32	28·06	33·36	39·36	40·68	63·60
	Rungpore	...	2,604	4,862	...	...	...	38·16	45·96	...	...	1,329	1,243	663	292	365	810	89	717	447	729	308·81	61·21	24·48	17·40	24·32	27·24	33·36	40·32	43·20	78·08
	Bogra	...	562	2,191	...	...	...	48·00	41·28	...	...	641	484	248	95	129	305	251	191	162	267	501·84	57·72	21·01	15·32	26·0[illegible]	37·21	29·69	34·92	53·41	86·88
	Pubna	...	1,032	2,76[illegible]	...	...	...	34·20	34·92	...	...	415	632	428	215	252	391	354	318	146	544	15[illegible]·61	42·12	11·12	23·64	31·92	28·04	23·52	30·36	33·16	75·00
	Darjiling	1	361	27	8	...	14·16	35·[illegible]	39·2[illegible]	5·04	...	61	41	15	23	34	77	6	27	24	39	[illegible]46·00	30·36	15·96	17·52	30·84	26·41	31·63	42·96	43·96	67·08
	Julpaiguri	...	1,38[illegible]	994	...	28	...	44·88	57·24	...	67·36	689	830	114	71	140	263	261	215	125	236	511·92	55·56	15·96	13·92	28·63	31·24	36·72	43·92	44·16	87·72
Dacca	Dacca	16	2,925	4,171	...	...	21·72	40·92	39·9	...	...	1,364	[illegible]	455	320	390	695	679	550	429	1,318	275·10	37·92	16·32	16·92	25·05	24·96	29·04	35·24	45·72	119·16
	Faridpore	2	2,394	4,246	...	...	8·6[illegible]	45·21	39·84	...	...	934	871	431	273	322	657	474	452	388	831	233·4[illegible]	48·84	24·48	18·84	32·04	24·96	25·32	31·16	47·40	109·24
	Backergunj	17	2,462	6,390	...	...	54·84	47·28	60·48	...	...	2,421	1,2[illegible]	657	272	347	8[illegible]7	721	64[illegible]	540	1,280	622·32	58·56	29·52	16·65	25·32	30·36	33·36	38·28	60·12	155·16
	Mymensingh	...	2,724	4,908	...	116	...	33·12	29·64	...	53·52	1,076	965	670	354	457	859	78	673	515	1,374	175·40	28·20	16·28	13·8[illegible]	22·[illegible]5	20·16	34·68	30·60	41·16	95·60
Chittagong	Chittagong	5	696	2,146	143	...	56·76	30·24	32·76	47·64	...	5[illegible]3	452	209	110	130	276	209	232	255	570	175·44	36·72	17·04	8·52	17·29	19·63	23·40	31·08	45·36	110·88
	Noakhali	1	615	2,947	...	...	20·40	34·8	59·76	...	...	741	848	315	145	125	268	282	181	197	538	381·96	86·52	23·56	19·92	21·60	24·60	35·04	31·08	51·00	150·36
	Tipperah	...	1,491	3,164	...	...	...	35·04	37·30	...	...	917	497	354	255	310	554	435	302	318	698	310·96	25·65	18·00	17·40	25·28	28·20	25·32	27·24	46·20	106·32
Patna	Patna	3	3,390	390	...	...	17·80	28·40	21·06	...	...	636	394	182	116	93	237	281	379	519	805	199·92	22·20	9·36	8·28	9·81	12·24	13·05	24·24	52·68	75·12
	Gya	1	4,607	452	...	...	124·72	29·0[illegible]	24·16	...	...	752	557	239	152	122	419	430	576	685	1,128	210·96	24·00	9·24	8·64	10·44	14·16	16·32	30·60	57·64	106·92
	Shahabad	1	4,390	290	...	...	43·44	18·92	23·64	...	...	728	433	213	114	102	391	5[illegible]2	551	609	1,022	194·64	21·12	9·36	6·72	9·00	14·40	20·32	33·48	60·96	96·72
	Mozufferpore	...	3,729	461	...	...	...	19·68	15·36	...	...	252	447	253	157	121	334	460	534	621	884	70·68	16·44	6·72	7·20	8·64	10·32	14·47	25·20	43·92	68·76
	Durbhanga	...	4,107	459	...	...	...	21·12	17·40	...	...	375	574	365	160	137	563	566	583	612	713	83·40	20·52	10·80	7·50	12·48	15·60	15·60	23·32	42·96	60·72
	Sarun	2	3,564	395	...	...	25·04	21·76	17·64	...	...	536	415	165	127	92	278	399	428	468	1,090	119·52	17·76	5·88	6·36	7·44	9·24	13·56	21·12	39·9	94·8[illegible]
	Chumparun	3	3,142	511	...	...	18·48	21·44	25·52	...	...	394	469	279	16	141	420	422	357	393	583	108·00	27·60	13·68	11·40	14·76	17·40	18·60	25·80	45·36	73·05
Bhagulpore	Monghyr	...	5,833	558	...	6	...	39·44	35·61	...	9·96	1,159	1,026	35[illegible]	245	119	372	417	601	677	1,453	377·28	45·72	14·04	13·20	10·56	14·28	17·16	35·28	66·60	154·20
	Bhagulpore	...	4,734	361	...	...	...	32·16	23·[illegible]8	...	...	840	647	396	208	185	509	519	557	549	793	270·24	31·12	14·04	11·52	11·40	19·12	29·04	35·04	60·72	99·96
	Purneah	...	2,736	1,900	...	...	...	30·72	29·68	...	...	529	626	341	261	287	578	603	535	523	457	167·88	35·16	14·52	16·44	22·44	22·32	24·72	34·08	62·52	58·92
	Maldah	...	1,255	773	...	...	...	39·72	28·[illegible]8	...	...	222	351	200	119	122	135	225	139	99	303	134·52	51·84	21·96	19·44	24·36	26·49	26·76	24·84	31·44	84·24
	Sonthal Pergunnahs	1	1,223	108	...	659	3·84	17·28	18·24	...	12·84	351	219	200	130	130	195	166	177	209	226	134·88	13·56	8·28	8·64	13·63	10·08	9·36	16·32	31·92	35·16
Orissa	Cuttack	3	6,963	102	...	...	15·36	47·16	25·68	...	...	1,945	1,063	519	22[illegible]	288	400	503	430	531	983	621·48	56·16	23·04	14·04	12·12	19·68	23·44	34·28	60·36	102·60
	Pooree	1	3,608	36	...	...	14·64	41·44	27·00	...	...	951	4[illegible]	216	117	138	231	294	272	354	616	734·61	43·48	20·28	15·60	28·32	21·24	27·96	38·88	72·36	150·00
	Balasore	1	3,757	55	...	...	14·64	49·56	25·20	...	...	1,02[illegible]	551	230	129	1[illegible]7	326	331	240	252	519	601·08	67·72	18·72	14·88	27·36	23·76	30·12	36·24	63·84	125·76
Chota Nagpore	Hazaribagh	...	2,063	249	...	114	...	26·76	27·[illegible]0	...	18·60	40[illegible]	300	193	93	93	49[illegible]	241	220	286	391	[illegible]0·29	23·40	12·36	9·48	13·08	12·84	18·24	27·60	62·04	107·88
	Lohardugga	32	1,291	159	...	967	10·56	16·56	23·16	...	18·48	311	291	156	13[illegible]	1[illegible]3	265	275	255	290	361	87·60	14·3[illegible]	6·84	8·88	10·68	12·00	14·64	23·16	41·72	66·60
	Singhbhum	5	662	5	...	...	20·04	17·64	25·68	...	...	100	108	52	28	27	58	78	70	61	94	137·28	21·00	8·28	6·00	8·40	9·24	14·04	21·48	32·52	57·84
	Manbhum	1	1,654	56	...	55	21·72	20·88	32·08	...	9·96	308	208	144	90	141	175	158	147	205	230	129·13	17·88	9·48	10·08	17·28	12·48	12·84	20·16	43·56	52·92
	TOTAL FOR THE PROVINCE.	150	114,907	67,60[illegible]	191	2,330	15·48	32·04	38·01	23·86	17·04	33,737	25,148	13,927	7,536	8,345	18,396	17,939	16,360	15,637	26,514	253·68	36·96	16·92	13·44	20·40	19·92	22·56	30·84	48·12	91·44

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 4th March 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

THE principal Municipalities in Bengal presented, during the week ending 15th February 1890, a birth-rate of 21·7 per 1,000 of population, against 23·3 per 1,000 in the preceding week ending 8th February, showing a decrease in registration, the death-rate returned by these Municipalities was 24·1 per 1,000 of population against very nearly the same proportion, viz., 23·9 per 1,000 in the previous week.

2. The following Municipalities registered the highest proportions of births and deaths:—

Births.

	Ratio per mille.
Narainganj	45·5
Monghyr	38·9
Darjiling	37·0
Arrah	34·7
Serampore	33·4

Deaths.

	Ratio per mille.
Poori	117·5
Narainganj	58·0
Darjiling	44·5
Jessore	42·8
Gya	41·7
Utterpara	37·7
Serampore	37·3
Burdwan	35·1
Rampore Beauleah	31·5
Kishnaghur	30·3

3. In comparison with the results of the preceding week, the only noticeable point is that there was a decrease in mortality from fever, *vide* figures below:—

	Ratio per *mille* during the weeks ending—	
	15th February 1890.	8th February 1890.
Cholera	3·1	2·3
Small-pox ... .../	·8	1·1
Fever	9·1	10·3
Bowel-complaints	3·4	3·3
Injury	·5	5
Other causes	7·2	6·4

4. The highest rates of deaths from cholera, fever and maladies coming under the head of "Other causes" were returned from the following Municipalities:—

Cholera.

	Ratio per mille.
Poori	39·8
Gya	8·9
Howrah	4·6

Fever.

	Ratio per mille.
Darjiling	28·6
Kishnaghur	24·6
Jessore	24·5
Rampore Beauleah ...	23·6
Poori	23·1

Other causes

	Ratio per mille.
Poori	18·9
Serampore	17·6
Midnapore	17·0
Narainganj	16·6
Gya	10·9
Bhagulpore	10·9

The mortality from small-pox in the Poori town, although still high, was considerably less than that of the preceding week ending 8th February, viz., 23·1 against 39·8 per 1,000 of population.

5. Classified according to *Sex*, *Class* and *Age*, the mortality of the week stood as follows:—

According to Sex.

	Ratio per mille.
Males	27·0
Females	21·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	129

According to Class.

	Ratio per mille.
Christians	29·9
Hindus	24·5
Mahomedans ...	22·9
Other classes ...	70·8

According to Age.

	Ratio per mille.
Under 1 year ...	153·6
1 and under 5 years ...	28·5
5 „ 10 „ ...	11·3
10 „ 15 „ ...	10·3
15 „ 20 „ ...	9·0
20 „ 30 „ ...	12·3
30 „ 40 „ ...	17·5
40 „ 50 „ ...	22·0
50 „ 60 „ ...	30·9
60 years and upwards ...	79·9

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 3rd March 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration o B.rths and Deaths in the principal Municipalities in Bengal during the week ending 15th February 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS							MORTALITY ACCORDING TO—																		
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.						Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion which mortality bears to the total male and female population.
Burdwan ...	Burdwan	15,663	16,017	34,080	12	5	17	15·3	7·6	25·9	240	...	...	13	4	1	5	23	...	...	19·8	6·1	1·5	7·6	35·1	35·1	12	11	34·5	35·7	97
Midnapore ...	Midnapore ..	16,927	16,623	33,550	4	2	6	6·1	3·1	9·3	200	...	...	1	3	...	11	15	...	...	1·5	4·6	..	17·0	23·2	31·0	8	7	24·6	21·9	112
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	8	6	14	13·1	9·8	23·0	133	2	...	9	2	1	3	17	3·3	..	14·8	3·3	1·6	4·9	27·9	45·9	9	8	29·5	26·3	112
Serampore ...	Serampore ...	13,559	12,937	26,496	7	10	17	13·7	19·6	33·4	70	1	1	2	5	1	9	19	2·0	2·0	3·9	9·8	2·0	17·6	37·3	47·1	13	6	49·9	24·1	207
	Utterpara &c. ...	3,046	2,464	5,510	2	1	3	16·9	9·4	28·3	200	...	...	...	3	...	1	4	...	...	...	28·3	...	9·4	37·7	18·9	4		66·3		No female death.
Howrah ...	Howrah	53,183	37,660	90,813	15	23	38	8·6	13·2	21·8	65	8	...	9	9	...	10	36	4·6	...	5·1	5·1	...	5·7	20·6	19·5	19	17	18·6	23·5	79
	Bali	7,836	6,979	14,815	2	1	3	7·0	3·5	10·5	200	3	...	2	...	..	1	6	10·5	...	7·0	...	...	3·5	21·1	28·1	4	2	26·5	14·9	178
Nudden ...	Kishnaghur ...	13,263	14,214	27,477	5	5	10	15·1	8·8	18·9	400	...	1	13	...	...	2	16	..	1·9	24·6	...	...	9·8	30·3	5·7	10	6	39·2	22·0	178
	Ranaghat	4,026	4,654	8,643	1	1	2	6·0	6·0	12·0	100	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6·0	12·0	..	1		11·2	No male death.
	Santipore	13,706	15,979	29,687	6	6	12	10·5	19·5	21·0	100	...	...	5	...	...	...	5	...	...	8·8	...	...	..	8·8	12·3	4	1	15·2	3·3	400
Jessore ...	Jessore	4,850	3,665	8,495	1	2	3	6·1	12·2	18·4	50	2	...	4	...	...	1	7	12·2	...	24·5	...	...	6·1	42·8	49·0	5	2	33·8	23·4	189
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	5	11	15·8	13·1	28·9	120	1	...	9	...	...	2	12	2·6	..	23·6	...	...	5·3	31·5	18·4	6	6	29·0	34·6	84
Darjiling ...	Darjiling	4,579	2,439	7,018	2	3	5	14·8	22·2	37·0	66	..	...	4	...	...	2	6	...	...	29·6	...	...	14·8	44·5	59·3	2	4	22·7	55·3	37
Dacca ...	Dacca	42,782	37,379	80,161	11	12	23	7·1	7·8	14·9	91	1	...	4	4	1	8	18	6	...	2·6	2·6	·6	5·2	11·7	14·3	11	7	15·4	9·7	138
	Naraingunj ...	7,605	4,956	12,561	5	6	11	34·7	24·6	45·5	83	3	...	4	3	...	4	14	12·4	...	16·6	12·4	...	16·6	58·9	37·3	11	3	75·2	31·5	238
Chittagong ...	Chittagong ...	13,540	8,790	22,130	7	3	10	16·4	7·0	23·5	233	3	...	.	2	...	4	9	7·0	...	...	4·7	...	9·4	21·1	23·5	7	2	27·3	11·8	231
Tipperah ...	Comillah	8,153	5,353	13,506	2	3	5	7·7	11·5	19·3	66	1	...	3	...	...	1	5	3·9	...	11·5	...	...	3·9	19·3	27·0	3	2	19·1	19·4	98
Patna	Patna City ...	78,762	81,475	160,237	15	14	32	5·6	4·5	10·4	128	3	...	21	5	...	23	52	1·0	...	6·8	1·6	...	7·5	16·9	12·7	25	27	16·5	17·5	96
Gya	Gya	38,290	37,831	76,121	19	19	38	13·9	13·0	26·0	100	13	...	28	1	3	16	61	8·9	...	19·1	·7	2·0	16·9	41·7	34·8	31	30	42·1	41·2	103
Shahabad ...	Arrah	20,990	23,505	43,655	16	13	29	19·1	15·6	34·7	123	...	3	4	4	1	...	12	...	3·6	4·8	4·8	1·2	...	14·4	16·7	5	7	12·4	16·2	76
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	11	3	14	13·4	3·6	17·0	366	...	...	4	2	1	1	8	..	...	4·9	2·4	1·2	1·2	9·7	10·9	6	2	13·5	5·3	255
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	17	21	38	13·4	16·5	29·9	81	1	..	11	...	...	11	23	·6	...	5·6	...	...	8·6	18·1	21·2	15	8	23·1	11·9	179
Saran	Chupra	25,116	26,554	51,670	13	12	25	13·1	12·1	25·2	108	...	1	1	2	...	1	5	...	1·0	1·0	2·0	...	1·0	5·0	9·1	4	1	8·3	3·0	415
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	10	19	29	9·0	17·2	26·2	52	...	...	6	4	...	12	22	...	...	5·4	3·6	...	10·9	19·9	19·9	12	10	21·1	15·7	112
Monghyr ..	Monghyr	28,154	29,366	57,520	18	25	43	16·3	23·6	38·9	72	2	...	18	9	...	8	32	1·8	...	11·8	8·1	...	7·2	28·9	30·8	15	17	27·7	30·1	92
Purneah ...	Purneah	8,463	6,553	15,016	2	3	5	6·9	10·4	17·3	66	...	...	4	1	1	2	8	...	...	13·8	3·5	3·5	6·9	27·7	38·1	5	3	36·7	23·8	138
Poori	Poori	13,247	11,537	24,784	1	...	1	2·1	...	2·1	No female birth	19	11	11	6	...	9	56	39·8	23·1	23·1	13·6	...	18·9	117·5	128·0	40	16	157·0	73·1	217
	Total ..	550,998	510,388	1,061,374	224	220	444	10·9	10·8	21·7	102	61	17	186	69	10	147	492	3·1	·8	9·1	3·4	·5	7·2	24·1	23·9	286	206	27·0	21·0	129

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14				15										16								
		MORTALITY ACCORDING TO—																											
		Class.									Age.																		
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.								
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan		17	6	...	–	..	37·3	30·6	...	...	2	...	2	...	.	4	4	6	1	4	157·6	...	44·6	...	...	28·3	30·2	70·6	21·2	140·4
Midnapore ...	Midnapore		12	3	..	...		24·1	21·6	...	...	3	...	...	..	...	...	2	1	3	6	210·0	...	...	...	...	...	15·6	14·0	75·6	170·5
Hughli ...	Hughli and Chinsurah	1	13	4	...	...	226·1	24·7	33·7	...	...	1	3	...	...	...	2	3	2	3	3	84·8	70·3	..	...	..	16·8	27·3	24·9	60·0	75·3
Serampore ...	Serampore	...	13	1	...	...		37·1	55·4	...	.	.	1	1	...	...	4	6	3	1	1	...	28·8	20·7	...	...	26·6	65·7	46·2	27·3	37·4
	Utterpara	...	4	...	...	...	..	39·1	...	.	..	1	..	..	1	...	1	1	..	..	...	323·0	...	.	108·6	...	45·2	49·0	...	...	...
Howrah ...	Howrah	..	28	7	...	1	...	21·4	17·7	...	215·8	7	2	1		2	3	7	7	...	7	176·4	18·8	8·3	.	14·2	6·9	18·9	31·0	...	97·0
	Bali	...	5	1	...		...	19·4	39·7	...	...	..	.	..	2	...		..	2	..	2	...	...	..	87·6	..	...	..	53·7	...	142·1
Nuddea ...	Kishnaghur ...	...	11	5	...	...		30·7	31·4	...	..	1	1	1	..	..	2	1	..	3	7	104·8	21·1	15·1	...	...	21·6	12·1	...	74·0	210·6
	Ranaghat .	..	1	...	...	...	.	7·1	.	.	.		..	..		..	..	..	...	1	..	...	...	...	...	...	...	...	..	71·8	..
	Santipore .. .	...	2	3	...	.	...	5·0	17·4	..	...	.	2	..	...	..	1	...	.		2	.	35·9	...	.	..	10·6	.	...	...	55·0
Jessore ...	Jessore . .	...	3	4	...	...	..	34·6	54·4	.	...	1	2	.	1	...		2	1	...	...	263·0	210·5	...	78·2	...	...	68·0	49·5	...	..
Rajshahye ...	Rampore Beauleah	...	6	6	...	...	...	31·5	31·5	...	...	1	3	2	.	1	2	2	..	1	...	128·1	116·9	50·0	...	31·2	25·0	28·9	...	41·9	...
Darjiling ...	Darjiling . ..	...	6	...	...	...		67·9	...	.	...	1	3	.	...	..	2	...	...	...	..	429·8	242·6	..		..	52·0	..	...	...	...
Dacca	Dacca ...	.	9	9	...		...	11·6	11·9	...	...	5	3	.	1	2	1	2	...	...	4	137·0	21·2	...	6·5	14·2	3·4	8·9	...	...	37·3
	Naraingunj ..	...	4	10	...	...	.	32·9	84·4	...	...	4	2	1	3	...	1	...	...	1	2	745·5	91·2	39·4	137·4	..	19·5	...	...	66·5	159·5
Chittagong ..	Chittagong ..	3	1	5	...	...	196·0	9·0	17·0	..	...	3	1	..	...	1	1	3	...	...	...	277·1	26·4	...	...	21·3	11·2	46·8	...		..
Tipperah	Comillah .		2	3	..	.	..	17·5	31·1	...	...	3	...	.	.	...	...	...	...	...	2	525·3	.	...	..	...	...	...	...	...	153·4
Patna	Patna City .	...	45	7	...	...	..	19·7	8·9	..	...	12	1	3	2	1	5	4	2	8	14	144·8	3·6	9·3	7·2	4·7	9·0	8·9	5·5	29·4	53·7
Gya ...	Gya ...	..	46	15	...	..	...	39·9	46·5	..	..	6	4	2	3	3	4	3	12	11	13	174·5	39·7	14·9	23·2	29·6	14·1	12·3	63·8	97·0	181·3
Shahabad ...	Arrah	...	4	5	...	...	..	6·7	33·5	..	...	4	2	..	...	...	...	1	...	2	3	161·5	23·5	...	...	...	..	8·1	...	33·6	54·1
Mozufferpore ..	Mozufferpore ..	..	5	3	...	.	.	8·7	12·5	..	..	1	2	1	...	.	1	...	2		1	54·5	25·7	11·6	...	.	6·1	...	20·8	...	21·4
Durbhanga ..	Durbhanga ...	...	16	8	...	...	...	16·1	23·7	...	...	2	2	1	2	1		2	1	2	10	66·8	13·7	6·6	18·7	12·9	.	9·5	7·0	23·7	162·8
Saran ...	Chupra ...	...	5	...	...	...	...	6·6	...	...	...	1	.	2	...	...	1	1	...	...	...	36·9	...	17·5	...	...	5·6	6·7	...	...	...
Bhagulpore ...	Bhagulpore ...	...	13	9	...	..	...	17·0	27·2	...	..	4	4	1	...	...	2	3	...	2	6	174·3	38·4	8·9		...	9·5	16·8	.	24·2	86·6
Monghyr ...	Monghyr . ..	...	24	8	...	...	...	27·9	33·1	...	...	4	4	2	1	1	3	3	4	1	9	140·1	33·4	14·7	9·1	13·8	15·1	17·5	32·6	13·1	130·5
Purneah ...	Purneah	...	3	5	...	...	...	17·0	45·9	...	...	2	...	1	1	...	1	...	2	1	...	367·5	...	32·9	43·5	..	15·8	...	56·1	55·5	..
Poori ...	Poori	..	56	...	..	..	...	118·7	..	...	...	6	9	3	2	2	9	7	8	5	5	1029·7	260·4	69·6	55·4	55·9	88·6	89·5	125·2	116·5	144·0
	TOTAL ...	4	357	130	...	1	39·9	24·5	22·9	..	76·8	75	81	24	19	14	58	59	83	46	101	133·6	28·5	11·3	10·3	9·0	12·3	17·5	32·0	30·9	79·9

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 3rd March 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st March 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 1st March 1890.			Week ending Saturday, the 2nd March 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,385	2,31,375	3,754	1,113	2,81,920	5,068
Jute	199	61,000	1,107	67	50,625	923
Firewood	73	44,525	670	195	1,07,720	1,605
Other articles	1,025	2,53,090	3,939	1,166	2,82,645	4,695
Total ...	2,592	5,89,950	9,470	2,541	7,22,910	12,291

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY

Approximate Return of Traffic for week ended 22nd February 1890, on 1,525½ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	281,503	3,22,779 6 0	27,54,205 30	6,21,895 1 0	21,513 15 0	9,66,188 6 0	68,409	96,52[illegible]	164,93[illegible]
Or per mile of railway ...	.....	211 9 3	.	407 10 8	14 1 8	633 5 9	.....	.....	.....
For previous 7 weeks of half-year	1,725,109	19 73,586 7 0	1,70,72,924 20	39,43,008 11 0	1 32,810 12 0	60,49,405 14 0	446,313	593,617	1,039,930
Total for 8 weeks ...	2,006,611	23,96,365 13 0	1,98,27,130 10	45,64,903 12 0	1,54,324 11 0	70,15,594 4 0	514,723	690,143½	1,204,867½
Comparison									
Total for corresponding week of previous year	270,539	3,25,492 2 11	28,53,794 30	6,07,170 5 9	14,749 7 3	9,47,411 15 11	69,906	97,864	167,770
Per mile of railway corresponding week of previous year .	.....	213 5 11	.....	398 0 3	9 10 8	621 0 10	.....	.....	.....
Total to corresponding date of previous year	1,984,978½	23,29,687 12 4	2,20,12,255 30	47,87,954 2 0	1,19,396 1 3	72,37,037 15 7	515,353	705,764	1,221,117

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs
1,525½	9,47,412	621	1,525½	9,06,188	633	1,525½	3,97,76,763	555	1,525½	3,95,33,077	551	.....	2,46,686

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 22nd February 1890, *on 57½ miles open*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P			
Total traffic for the week ...	12,462	8,227 8 0	38,289 10	2,494 7 0	48 7 0	10,770 6 0	1,932	632	2,564
Or per mile of railway	218	143 13 5	669 20	43 9 9	0 13 6	188 4 8	.....	.....	.....
For previous 7 weeks of half-year	84,306	44,552 1 0	2,40,454 30	16,045 8 0	334 2 0	60,931 5 0	11,667	4,670	16,337
Total for 8 weeks ...	96,768	52,779 9 0	2,78,744 0	18,539 9 0	382 9 0	71,701 1 0	13,599	5,302	18,901
Comparison.									
Total for corresponding week of previous year	15,310	8,741 15 4	59,828 20	2,256 10 0	40 3 3	11,038 12 7	1,947	447	2,394
Per mile of railway corresponding week of previous year ...	268	152 13 3	1,046 0	39 7 3	0 11 3	193 15 9	.....	.....	.....
Total to corresponding date of previous year	99,276	53,216 15 3	2,62,019 30	14,140 1 0	276 9 0	67,633 9 3	14,823	4,333	19,156

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,039	193	57½	10,770	188	57½	4,36,392	162	57½	4,53,794	169	17,402	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd February 1890, *on 22½ miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2',764	6,981 14 0	13,034 30	412 8 0	7 4 0	7,431 10 0	1,104	84	1,188
Or per mile of railway	.....	313 12 8	.....	19 14 2	0 5 3	334 0 1	.....	.....	.....
For previous 7 weeks of half-year	135,362	33,231 1 0	90,213 10	8,131 10 0	47 13 0	30,410 8 0	5,893	481	6,374
Total for 8 weeks ...	102,626	40,212 15 0	1,03,248 0	8,574 2 0	55 1 0	41,842 2 0	6,997	565	7,562
Comparison.									
Total for corresponding week of previous year	23,353½	5,932 4 8	12,394 20	432 10 0	7 2 0	6,372 0 8	890	78	968
Per mile of railway corresponding week of previous year ...	.....	266 9 11	.....	19 7 1	0 5 1	286 6 1	.....	.....	.....
Total to corresponding date of previous year	100,702½	40,859 3 9	74,513 0	2,595 13 0	52 1 9	43,507 2 6	6,945	513	7,458

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
22½	6,372	286	22½	7,432	334	22½	2,50,389	239	22½	2,47,515	237	.....	2,874

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 15th February 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	MDS. S	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	142,370	85,690 0 0	5,97,510 0	1,02,080 0 0	16,300 0 0	2,04,070 0 0	23,140	28,170	51,310
Or per mile of railway ..	191	115 0 0	800 0	137 0 0	*6 0 0	258 0 0	... ..	.....	.....
For previous 6 weeks of half-year	917,790	4,48,880 0 0	35,49,470 0	7,68,030 0 0	1,03,360 0 0	13,20,270 0 0	128,271	193,770	322,041
Total for 7 weeks ...	1,060,160	5,34,570 0 0	41,46,980 0	8,70,110 0 0	1,19,660 0 0	15,24,340 0 0	151,411	221,940	373,351
COMPARISON.									
Total for corresponding week of previous year	a155,245	94,185 0 0	4,73,904 0	75,097 0 0	16,212 0 0	1,85,494 0 0	22,472	22,609	45,081
Per mile of railway corresponding period of previous year ..	231	140 0 0	794 0	113 0 0	*5 0 0	257 0 0	.....	.....	.....
Total to corresponding date of previous year	987,250	5,14,448 0 0	33,31,187 0	6,65,550 0 0	1,11,042 0 0	12,91,040 0 0	148,160	181,932	330,092

* Excluding steamer earnings
a Due to *Purnima* Bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 16TH FEBRUARY 1889.			RECEIPTS FOR WEEK ENDING 15TH FEBRUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 16TH FEBRUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH FEBRUARY 1890.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,85,494	276	747	2,04,070	273	673	95,33,429	307	736	*1,02,89,420	309	7,55,991	.....

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 15th February 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS S.	Rs A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,090	10,120 0 0	54,310 0	3,070 0 0	60 0 0	13,240 0 0	3,736	1,936	5,672
Or per mile of railway . ..	209	81 0 0	434 0	25 0 0	... ..	106 0 0	.....	.....	.....
For previous 6 weeks of half-year	180,200	60,450 0 0	2,58,350 0	15,500 0 0	460 0 0	76,410 0 0	20,814	10,788	31,602
Total for 7 weeks ...	180,290	70,570 0 0	3,12,860 0	18,570 0 0	520 0 0	89,650 0 0	24,550	12,724	37,274
COMPARISON.									
Total for corresponding week of previous year	29,330	11,041 0 0	58,761 0	2,639 0 0	85 0 0	13,765 0 0	3,753	1,937	5,690
Per mile of railway corresponding period of previous year .	234	88 0 0	470 0	21 0 0	1 0 0	110 0 0	.....	.....	... ...
Total to corresponding date of previous year	186,466	64,063 0 0	3,27,102 0	16,277 0 0	3,824 0 0	85,164 0 0	25,127	13,012	38,139

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 16TH FEBRUARY 1889.			RECEIPTS FOR WEEK ENDING 15TH FEBRUARY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 16TH FEBRUARY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH FEBRUARY 1890.			Total increase in 1889-90.*	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,765	110	125	13,250	106	125	6,31,319	110	125	*6,49,111	113	17,792	.....

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY

Approximate Return of Traffic for week ended 15th February 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise	Total
		Rs. A. P.	Mds. s	Rs. A. P	Rs. A P.	Rs A. P			
Total traffic for the week	15,700	6,570 0 0	22,950 0	2,010 0 0	230 0 0	8,810 0 0	2,480	720	3 27
Or per mile of railway	182	74 0 0	267 0	23 0 0	3 0 0	100 0 0	..	..	..
For previous 6 weeks of half-year	94,230	34,750 0 0	1,86,070 0	19,040 0 0	1,160 0 0	54,950 0 0	13,818	4,014	18,72
Total for 7 weeks ..	109,930	41,120 0 0	2,09,850 0	21,050 0 0	1,390 0 0	63,560 0 0	16 298	5,704	22,00
Comparison.									
Total for corresponding period of previous year	15,235	4,973 0 0	12,863 0	1,316 0 0	98 0 0	6,387 0 0	2,488	761	3,25
Per mile of railway corresponding period of previous year ..	177	58 0 0	149 0	15 0 0	1 0 0	74 0 0	..	..	
Total to corresponding date of previous year	103,491	31,575 0 0	81,283 0	8,734 0 0	1 236 0 0	41,545 0 0	16,691	4,812	21 60

FINANCIAL YEAR

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 16th February 1889.			Receipts for week ending 15th February 1890.			Total receipts from 1st April 1888 to 16th February 1889			Total receipts from 1st April 1889 to 15th February 1890			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs	Rs.	Rs. *	Rs
86	6,387	74	86	8,610	100	86	2,05,019	67	86	*3,48,818	88	83,799	..

* Audited up to week ending 31st December 1889

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 22nd February 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated)	Total earnings	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried	Receipts.			Coaching.	Merchandise	Total
		Rs. A. P	Mds. s	Rs. A. P	Rs. A. P	Rs. A. P.			
Total traffic for the week ..	4,715	1,518 0 0	13,761 0	988 0 0	9 0 0	2,465 0 0	509	284	793
Or per mile of railway	173	56 0 0	505 0	34 0 0	... .	90 0 0	.....	...	.. ..
For previous 6 weeks of half-year	19,865	7,303 0 0	88,766 0	5,581 0 0	99 0 0	12,983 0 0	3,345	3,383	6,728
Total for 7 weeks ...	24,580	8,821 0 0	1,02,527 0	6,519 0 0	108 0 0	15,448 0 0	3,854	3,637	7,491
Comparison.									
Total for corresponding week of previous year	3,374	1,289 0 0	15,343 0	972 0 0	17 0 0	2,278 0 0	509	417	926
Per mile of railway corresponding week of previous year .	124	47 0 0	563 0	36 0 0	1 0 0	84 0 0	.....	.....	.....
Total to corresponding date of previous year	25,241	9,524 0 0	1,31,150 0	6,746 0 0	122 0 0	16,302 0 0	3,926	4,272	8,198

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890			Total receipts from 1st April 1888 to 23rd February 1889			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1889-90.	Total decrease in 1889-90
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs
27¼	2,278	84	27¼	2,465	90	27¼	91,653	75	27¼	91,459	75	.....	194

All steam-vessels engaged in trawling must carry either one of the two following arrangements of lights, whichever of the two may be the more convenient:—

(*a*) The usual green and red side-lights, and foremast head light, similar to those carried by other steamships; or

(*b*) They must carry on or in front of the foremast head, and in the same position as the white light which other steamships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side; such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: and (2) a white light in a gobular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet, nor more than 12 feet.

25. What lights are sailing trawlers whilst actually engaged in trawling, and not being stationary, required to carry.

All sailing vessels, of whatever tonnage, whilst engaged in trawling, must carry either one of the three following arrangements of lights, whichever of the three, (*a*), (*b*), or (*c*), may be the most convenient:—

(*a*) They may carry the green and red side-lights similar to those of other sailing ships; or

(*b*) They may carry on or in front of the foremast head a lanthorn having a green glass on the starbord side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side; and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light all round the horizon; the lanthorn containing such white light shall be carried lower than the lanthorn showing the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet; or

(*c*) They may carry a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed at to show a clear, uniform and unbroken light all round the horizon, and visible on a dark night, with a clear atmosphere, for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 30 seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by, another ship or vessel in sufficient time to prevent collision.

26. What lights are vessels whilst actually engaged in drift net fishing required to carry?

All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of the vessel shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night, with a clear atmosphere, for a distance of not less than 3 miles.

27. What lights are vessels whilst actually engaged in line fishing required to carry?

A vessel engaged in line fishing is required to carry the same lights as a vessel engaged in drift net fishing.

28. If a vessel, when fishing, becomes stationary in consequence of her gear getting fast to a rock or other obstruction, what signal must she make?

She must show the same light, and if a fog, mist, or falling snow prevail, she must make the same fog signal, as if she were at anchor.

29. What lights are fishing vessels and open boats required to exhibit when at anchor?

Between sunset and sunrise they must exhibit a white light, visible all round the horizon at a distance of at least one mile, the same as any other vessel.

30. What sound signals are fishing vessels required to make whilst engaged in fishing in thick weather?

In fog, mist, or falling snow, a drift net vessel attached to her nets, and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

31. May fishing vessels and open boats use flare-up lights, and if so, at what part, or parts, of the vessel should they be exhibited?

Yes. Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

32. Do these regulations referring specially to fishing vessels and boats apply to foreign vessels, and to all parts of the world?

No, with the exception of the *first paragraph* of Article 10 of the regulations, they apply only to British vessels and boats when in the sea off the coast of Europe lying north of Cape Finisterre.

33. What lights are steam-ships required to carry when towing other ships?

A steam-ship, when towing another ship, shall, in addition to her side lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position as the white light which other steam-ships are required to carry.

34. What light is a ship which is being overtaken by another required to show?

A ship which is being overtaken by another shall show from her stern to such last mentioned ship a white light or a flare-up light.

35. Describe the lights and the day signals that vessels employed in laying or picking up a telegraph cable are required to carry.

A ship, whether a steam-ship or a sailing-ship employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line over one another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

36. Describe the lights and the day signals that vessels which from any cause are not under command are required to carry.

A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over than other, not less than three feet apart, and of such a charater as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles; and shall by day carry in a vertical line, one over the other, not less than three feet apart, in front of but not lower than her foremast head, three black balls or shapes, each two feet in diameter.

37. Are the above-mentioned ships to carry side-lights?

The above ships, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

38. What are the previous mentioned shapes and lights intended to indicate to approaching ships?

These shapes and lights are to be taken by approaching ships as signals that the ship using them is not under command, and cannot therefore get out of the way.

39. Do these rules prevent squadrons and convoys from carrying special lights?

No. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for two or more ships of war, or for ships sailing under convoy.

40. What sound signals are steam-ships and sailing ships required by the regulations to be provided with?

A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with

an efficient bell. A sailing ship shall be provided with a similar fog-horn and bell.

41. When are these signals to be used?

In fog, mist, or falling snow, whether by day or night.

42. What sound signal is to be made by steam-ships and sailing ships when not under way?

A steam ship and a sailing ship when not under way shall, at intervals of not more than two minutes, ring the bell.

43. What sound signal is required to be made by a steam-ship when under way?

A steam-ship under way shall make with her steam whistle, or other steam sound signal, at intervals of not more than two minutes a prolonged blast.

44. What sound signals are required to be made by sailing ships when under way?

A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

45. Do the regulations require ships to take any other precaution during thick weather?

Yes. Art. 13 says every ship, whether a sailing ship or steam-ship, shall, in a fog, mist, or falling snow, go at a moderate speed.

46. Is it optional for a steam-ship to make any other signals with her steam whistle?

Yes; but only to vessels in sight, *i.e.*, not to vessels which are so obscured by fog, mist, or falling snow that they cannot be seen, though their whistles may be heard

Art. 19 provides that in taking any course authorised or required by the regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz:—

One short blast to mean "I am directing my course to starboard."

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern"

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

47. What precaution is to be taken by steamers approaching another vessel?

If there is risk of collision, the steamer is to slacken speed, or, if necessary, stop and reverse.

48. If you see two white lights in a vertical line one over the other, what do they denote as regards the vessel carrying them?

They denote the presence of a steamer towing with her side lights not within sight on account of distance, fog, &c.; or a vessel end on to me engaged in drift net fishing, or in line fishing or it may be a steam trawler end on, or within two points of being end on, to me.

49. If you see a green, or a red, light with a white light below, what do they denote?

They denote the presence of either a sailing, or a steam, vessel engaged in trawling.

50. If you see both the green and red lights with a white light below them, what do they denote?

They denote the presence of a sailing trawler coming end on to me.

51. If you see a white light alone, what does it denote as regards the ship carrying it?

It denotes the presence of a vessel or boat at anchor; or a pilot vessel on her station; or the mast-head light of a vessel, under steam, with her side-lights not within sight on account of distance fog, &c.; or a fishing vessel stationary through her gear getting fast to some obstruction, or a sailing trawler engaged in trawling (1) under one arrangement of lights heading so that her side-lights are obscured, (2) under another arrangement from the red pyrotechnic light not having been exhibited, or it may be a light shown from the stern of a vessel which is being overtaken.

52. If you see a green or a red light without a white light, or both a green and a red light without a white light, is the vessel carrying the light or lights seen, a vessel under steam or a vessel under sail?

A vessel under sail?

53. How do you know?

Because there is no white mast-head light

54 If you see a white light over a coloured light, is the vessel a vessel under sail or a vessel under steam?

A vessel under steam. The mast-head light denotes that the vessel is under steam.

[The Examiner will then take one model of a vessel, which he will place on the table, and call it A. He will then take the mast or stand with a white and red ball on it and place it at the other end of the table and call it B.

The Examiner should be careful that the model of one vessel only is used when the questions numbered 55 to 60 are asked.]

55. A is a steamer going north, seeing a white light and red light right ahead at B. Are A and the vessel B showing the two lights meeting end on or nearly end on, or is B passing A, or is B crossing the path of A, and in what direction, and how do you know?

Passing to port, because if I see a red light ahead, I know that the head of the vessel carrying that red light must be pointing away

in some direction to my own port or left hand. The ship showing the red light has her port or left side more or less open to A.

56. If A is going north, within what points of the compass must the vessel B showing the white and red lights be steering?

B must be going from a little W. of S. to W. N.-W.

57. How do you know this?

Because the screens being properly fitted, I could not see the red light of B at all with the vessel's head in any other direction.

58. A is a steamer going north, and seeing a white and green light ahead. Are A and B meeting, or is B passing A, or is B crossing the course of A, and in what direction; and how do you know?

B is passing to starboard of A, because if I see a green light ahead, I know that the head of the vessel carrying that green light must be pointing away in some direction to my starboard or right hand. The ship showing the green light has her right or starboard side more or less open to me.

59. As A is going north, within what points of the compass must the vessel showing the white and green lights be steering?

B must be going from a little E. of South to E.N.E.

60. How do you know?

Because the screens being properly fitted, I cannot see the green light at all with the vessel's head in any other direction.

61. If a steamer A sees the *three* lights of another steamer B ahead or nearly ahead, are the two steamers meeting, passing, or crossing?

Meeting end on, or nearly end on.

62. Do the regulations expressly require the course of a ship to be altered to starboard in any case, and if so, when?

Yes; in the case of two steamers meeting end on, or nearly end on.

63. Do they expressly require the course of a ship to be altered to starboard in any other case; and if so, in what other?

No. It is not in any other case expressly required by the regulations.

[The Examiner should see that the candidate puts the models in the positions indicated by the question 64, and following.]

64. If a steamer A sees another steamer's red light B on her own starboard side, are the steamers meeting, passing, or crossing; and how do you know?

Crossing, because the red light of one is opposed to the green light of the other; and whenever a green light is opposed to a red light or a red light to a green light, the ships carrying the lights are, crossing ships.

65. Is A to stand on; and if not, why not?

A has the other vessel B on her own starboard side. A knows she is crossing the course of B, because she sees the red light of B on her (A's) own starboard side. A also knows she must get out of the way of B, because Article 16 expressly requires that the steamer that has the other on her own starboard side shall keep out of the way of the other.

66. Is A to starboard or to port in such a case?

A must do what is right so as to get herself out of the way of B: it is generally preferable to pass under a ship's stern rather than attempt to cross her bows, but it depends entirely on the position and relative speed of the two ships, and therefore the regulations wisely leave the giving way ship to get out of the way in any manner that may be most desirable, so always that she does get out of the way.

67. If A gets into collision by porting, will it be because she is acting on any rule?

No; the rule does not require her either to port or to star board If she ports, and gets into collision by porting, it is not the fault of any rule.

68. If a steamer A sees the green light of another steamer B on her own (A's own) port bow, are the two steamers meeting, passing, or crossing; and how do you know?

Crossing, because the green light of one ship is shown to the red light of the other.

69. What is A to do, and why?

By the rule contained in Article 22 of the Regulations, A is required to keep her course, subject only to the qualification that due regard must be had to all dangers of navigation; and that due regard must also be had to any special circumstances which may exist in any particular case rendering a departure from that rule necessary in order to avoid immediate danger. The crossing ship B on A's port side must get out of the way of A, because A is on B's starboard side.

70 A, a steamer, sees the green light of another steamer, B, a point on her A's port bow. Is there any regulation requiring A to port in such a case; and if so, where is it to be found?

There is not any.

71. Are steam-ships to get out of the way of sailing ships?

If a steamer and a sailing ship are proceeding in such direction as to involve risk of collision, the steamer is to get out of the way of the sailing ship, unless the sailing ship is overtaking the steamer.

72. What is to be done by A, whether a steamer or a sailing ship, if overtaking B?

A is to keep out of the way of B.

73. When by the rules one of two ships is required to keep out of the way of the other, what is the other to do?

To keep her course. This is absolutely necessary to enable the commander of the ship required by the regulations to keep out of the way, to act with decision and promptitude, which he cannot possibly, unless he knows what the other vessel is going to do.

74. Is there any qualification or exception to this?

Yes. Due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case, and require a departure from the regulations to avoid immediate danger.

75. Is there any general direction in the steering and sailing rules; and if so, what is it?

Yes, it is this: that nothing in the rules shall exonerate any ship, or the owner, master, or crew thereof, from the consequences of any neglect to carry lights, or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

76. Can you repeat article (———) of the regulations, I refer to the article containing the rule for (———)?

[The Examiner should repeat this question, naming a different article each time.]

77. What does the Act of Parliament provide as to the obligation of owners and masters in obeying the regulations respecting lights, fog signals, and steering and sailing?

Section 27 of "the Merchant Shipping Act Amendment Act, 1862," provides that owners and masters shall be bound to obey the regulations, and it also provides that in case of wilful default by the master or owner he shall be deemed to be guilty of a misdemeanor for each infringement.

78. What do breaches of the regulations imply?

If an accident happens through non-observance of the regulations, it implies wilful default on the part of the person in charge of the deck at the time, unless it is shown to the satisfaction of the court hearing the case that the special circumstances of the case rendered a departure from the rules necessary.

79. If collision ensues from a breach of the regulations, who is to be deemed in fault for the collision?

The person by whom the regulations are infringed, unless the court hearing the case decides to the contrary.

80. Is there any special rule for steam-ships navigating narrow channels?

In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which is on the starboard side of such ship.

81. Do the regulations apply to sea-going ships in harbours and in rivers?

Yes; unless there is any rule to the contrary made by a competent authority.

82. Do they apply to British ships only?

No, to foreign ships as well, with the exception of paragraphs (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*), of Article 10, which apply only to British fishing vessels.

83. Do you know where the present regulations are to be found?

Yes, in the Orders in Council of the 11th August 1884, the 30th December 1884, and 24th June 1885. Copies are given away on application to the Board of Trade.

84. Is one ship bound to assist another in case of collision?

Yes.

85. What is the penalty for default?

If the master or person in charge of the ship fails to render assistance without reasonable excuse, the collision is, in absence of proof to the contrary, to be deemed to be caused by his wrongful act, neglect, or default.

86. Is there any other penalty attached to not rendering assistance?

Yes. If it is afterwards proved that he did not render assistance, his certificate may be cancelled or suspended by the court investigating the case.

87. Is it not expected that you should understand the regulations before you take charge of the deck of a ship?

It is.

88. Why?

If I do not understand them and am guilty of default, the consequences will be very serious to me.

89. What would be a serious offence?

To cause a collision by porting the helm or doing anything not required by the regulations and without due consideration.

REGULATIONS FOR PREVENTING COLLISIONS AT SEA. ORDER IN COUNCIL OF 11TH AUGUST 1884.

Preliminary.

Art. 1. In the following rules every steam-ship which is under sail and not under steam is to be considered a sailing ship; and every steam-ship which is under steam, whether under sail or not, is to be considered a ship under steam.

Rules Concerning Lights.

Art. 2. The lights mentioned in the following Articles, numbered 3, 4, 5, 6, 7, 8, 9, 10 and 11, and no others, shall be carried in all weathers, from sunset to sunrise.

Art. 3. A sea-going steam-ship when under way shall carry—

(*a*) On or in front of the foremast, at a height above the hull of not less than 20 feet, and if the breadth of the ship exceeds 20 feet, then at a height above the hull not less than such breadth, a bright white light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 20 points of the compass, so fixed as to throw the light 10 points on each side of the ship, viz. from right ahead to two points abaft the beam on either side; and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least five miles.

(*b*) On the starboard side, a green light so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*c*) On the part side, a red light, so constructed as to show an uniform and unbroken light over an arc of the horizon of 10 points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible on a dark night, with a clear atmosphere, at a distance of at least two miles.

(*d*) The said green and red side-lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

Art. 4. A steam-ship, when towing another ship, shall in addition to her side-lights, carry two bright white lights in a vertical line one over the other, not less than three feet apart, so as to distinguish her from other steam-ships. Each of these lights shall be of the same construction and character, and shall be carried in the same position, as the white light which other steam-ships are required to carry.

Art. 5. (*a*) A ship, whether a steam-ship or a sailing ship, which from any accident is not under command, shall at night carry, in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three red lights in globular lanterns, each not less than 10 inches in diameter, in a vertical line one over the other, not less than three feet apart, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least two miles; and shall by day carry in a vertical line one over the other, not less than three feet apart, in front of, but not lower than, her foremast head, three black balls or shapes, each two feet in diameter.

(*b*) A ship, whether a steam-ship or a sailing ship, employed in laying or in picking up a telegraph cable, shall at night carry in the same position as the white light which steam-ships are required to carry, and, if a steam-ship, in place of that light, three lights in globular laterns, each not less than 10 inches in diameter, in a vertical line one over another, not less than six feet apart; the highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character that the red lights shall be visible at the same distance as the white light. By day she shall carry in a vertical line one over the other, not less than six feet apart, in front of, but not lower than, her foremast head, three shapes not less than two feet in diameter, of which the top and bottom shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(*c*) The ships referred to in this Article, when not making any way through the water, shall not carry the side-lights, but when making way shall carry them.

(*d*) The lights and shapes required to be shown by this Article are to be taken by other ships as signals that the ship showing them is not under command, and cannot therefore get out of the way. The signals to be made by ships in distress and requiring assistance are contained in Article 27.

Art 6. A sailing ship under way, or being towed, shall carry the same lights as are provided by Article 3 for a steam-ship under way, with the exception of the white light, which she shall never carry.

Art. 7. Whenever, as in the case of small vessels during bad weather, the green and red side-lights cannot be fixed, these lights shall be kept on deck, on their respective sides of the vessels, ready for use: and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent a collision, in such a manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side.

To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Art. 8. A ship, whether a steam-ship or a sailing ship, when at anchor, shall carry, where it can best be seen, but at a height not exceeding 20 feet above the hull, a white light, in a globular lantern of not less than eight inches in diameter, and so constructed as to show a clear, uniform and unbroken light visible all round the horizon at a distance of at least one mile.

Art. 9. A pilot vessel, when engaged on her station on pilotage duty, shall not carry the lights required for other vessels, but shall

carry a white light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed fifteen minutes.

A pilot vessel, when not engaged on her station on pilotage duty, shall carry lights similar to those of other ships.

Art 10. Open boats and fishing vessels of less than 20 tons net registered tonnage, when under way and when not having their nets, trawls, dredges, or lines in the water, shall not be obliged to carry the coloured side-lights; but every such boat and vessel shall in lieu thereof have ready at hand a lantern with a green glass on the one side and a red glass on the other side, and on approaching to, or being approached by another vessel, such lantern shall be exhibited in sufficient time to prevent collision, so that the green light shall not be seen on the port side, nor the red light on the starboard side.

The following portion of this article applies only to fishing vessels and boats when in the sea off the cost of Europe lying north of Cape Finisterre:—

(*a*) All fishing vessels and fishing boats of 20 tons not registered tonnage, or upwards, when under way and when not required by the following regulations in this article to carry and show the lights therein named, shall carry and show the same lights as other vessels under way.

(*b*) All vessels when engaged in fishing with drift nets shall exhibit two white lights from any part of the vessel where they can be best seen. Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 10 feet; and so that the horizontal distance between them measured in a line with the keel of th vessel shall be not less than five feet, and not more than 10 feet. The lower of these two lights shall be the more forward, and both of them shall be of such a character, and contained in lanterns of such construction as to show all round the horizon, on a dark night with a clear atmosphere, for a distance of not less than three miles.

(*c*) A vessel employed in line fishing with her lines out shall carry the same lights as a vessel when engaged in fishing with drift nets.

(*d*) If a vessel when fishing becomes stationary in consequence of her gear getting fast to a rock or other obstruction, she shall show the light and make the fog signal for a vessel at anchor.

(*e*) Fishing vessels and open boats may at any time use a flare-up in addition to the lights which they are by this article required to carry and show. All flare-up lights exhibited by a vessel when trawling, dredging, or fishing, with any kind of drag net shall be shown at the after part of the vessel, excepting that, if the vessel is hanging by the stern to her trawl, dredge, or drag net, they shall be exhibited from the bow.

(*f*) Every fishing vessel and every open boat when at anchor between sunset and sunrise shall exhibit a white light visible all round the horizon at a distance of at least one mile.

(*g*) In fog, mist, or falling snow, a drift net vessel attached to her nets and a vessel when trawling, dredging, or fishing with any kind of drag net, and a vessel employed in line fishing with her lines out, shall at intervals of not more than two minutes make a blast with her fog-horn and ring her bell alternately.

Art. 11. A ship which is being overtaken by another shall show from her stern to such last-mentioned ship a white light or a flare-up light.

Sound Signals for Fog, &c.

Art. 12. A steam-ship shall be provided with a steam whistle or other efficient steam sound signal, so placed that the sound may not be intercepted by any obstructions, and with an efficient fog-horn to be sounded by a bellows or other mechanical means, and also with an efficient bell.* A sailing ship shall be provided with a similar fog-horn and bell.

In fog, mist, or falling snow, whether by day or night, the signals described in this Article shall be used as follows; that is to say—

(*a*) A steam-ship under way shall make with her steam whistle or other steam sound signal, at intervals of not more than two minutes, a prolonged blast.

(*b*) A sailing ship under way shall make with her fog-horn, at intervals of not more than two minutes, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.

(*c*) A steam-ship and a sailing ship, when not under way, shall, at intervals of not more than two minutes, ring the bell.

Speed of Ships to be moderate in Fog, &c.

Art. 13. Every ship, whether a sailing ship or steam-ship, shall in a fog, mist, or falling snow, go at a moderate speed.

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* In all cases where the regulations require a bell to be used, a drum will be substituted on board Turkish vessels.

Steering and Sailing Rules.

Art. 14. When two sailing ships are approaching one another so as to involve risk of collision, one of them shall keep out of the way of the other, as follows, viz.—

(*a*) A ship which is running free shall keep out of the way of a ship which is close-hauled.

(*b*) A ship which is close-hauled on the port tack shall keep out of the way of a ship which is close-hauled on the starboard tack.

(*c*) When both are running free with the wind on different sides, the ship which has the wind on the port side shall keep out of the way of the other.

(*d*) When both are running free with the wind on the same side, the ship which is to windward shall keep out of the way of the ship which is to leeward.

(*e*) A ship which has the wind aft shall keep out of the way of the other ship.

Art. 15. If two ships under steam are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other.

This article only applies to cases where ships are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two ships which must, if both keep on their respective courses, pass clear of each other.

The only cases to which it does apply are, when each of the two ships is end on, or nearly end on, to the other; in other words, in cases in which, by day, each ship sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each ship is in such a position as to see both the side-lights of the other.

It does not apply, by day, to cases in which a ship sees another ahead crossing her own course; or by night, to cases where the red light of one ship is opposed to the red light of the other, or where the green light of one ship is opposed to the green light of the other, or where a red light without a green light, or a green light without a red light, is seen ahead, or where both green and red lights are seen anywhere but ahead.

Art. 16. If two ships under steam are crossing, so as to involve risk of collision, the ship which has the other on her own starboard side shall keep out of the way of the other.

Art. 17. If two ships, one of which is a sailing ship, and the other a steam-ship, are proceeding in such directions as to involve risk of collision, the steam-ship shall keep out of the way of the sailing ship.

Art. 18. Every steam-ship, when approaching another ship, so as to involve risk of collision, shall slacken her speed or stop and reverse, if necessary.

Art. 19. In taking any course authorised or required by these Regulations, a steam-ship under way may indicate that course to any other ship which she has in sight by the following signals on her steam whistle, viz.—

One short blast to mean "I am directing my course to starboard:"

Two short blasts to mean "I am directing my course to port:"

Three short blasts to mean "I am going full speed astern."

The use of these signals is optional; but if they are used, the course of the ship must be in accordance with the signal made.

Art. 20. Notwithstanding anything contained in any preceding Article, every ship, whether a sailing ship or a steam-ship, overtaking any other shall keep out of the way of the overtaken ship.

Art 21. In narrow channels every steam-ship shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such ship.

Art. 22. Where by the above rules one of two ships is to keep out of the way, the other shall keep her course.

Art 23. In obeying and construing these rules due regard shall be had to all dangers of navigation, and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

No Ship, under any circumstances, to neglect proper Precautions.

Art 24. Nothing in these rules shall exonerate any ship, or the owner, or master, or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Reservation of Rules for Harbours and Inland Navigation

Art. 25 Nothing in these rules shall interfere with the operation of a special rule, duly made by local authority, relative to the navigation of any harbour, river, or inland navigation.

Special Lights for Squadrons and Convoys.

Art 26. Nothing in these rules shall interfere with the operation of any special rules made by the Government of any nation with

respect to additional station and signal lights for two or more ships of war or for ships sailing under convoy.

Art. 27. When a ship is in distress, and requires assistance from other ships or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, that is to say—

In the day-time—

1. A gun fired at intervals of about a minute;
2. The International Code signals of distress indicated by N. C.
3. The distant signal, consisting of square flag, having either above or below it a ball or anything resembling a ball.

At night—

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals.

ORDERS IN COUNCIL OF 30TH DECEMBER 1884 AND 24TH JUNE 1885.

ALTERNATIVE LIGHTS FOR TRAWLERS WHEN ENGAGED IN TRAWLING, HAVING THEIR TRAWLS IN THE WATER AND NOT BEING STATIONARY.

1884.—PART I.—STEAM-VESSELS OF 20 TONS GROSS REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head and in the same position as the white light which other steam-ships are required to carry, a lanthorn showing a white light ahead, a green light on the starboard side, and a red light on the port side, such lanthorn shall be so constructed, fitted, and arranged as to show an uniform and unbroken white light over an arc of the horizon of four points of the compass, an uniform and unbroken green light over an arc of the horizon of 10 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 10 points of the compass, and it shall be so fixed as to show the white light from right ahead to two points on the bow on each side of the ship, the green light from two points on the starboard bow to four points abaft the beam on the starboard side, and the red light from two points on the port bow to four points abaft the beam on the port side: (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than the lanthorn showing the green, white, and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet nor more than 12 feet.

1884.—PART II.—SAILING-VESSELS OF 20 TONS NET REGISTER TONNAGE OR UPWARDS.

(1) On or in front of the foremast head a lanthorn having a green glass on the starboard side and a red glass on the port side, so constructed, fitted, and arranged that the red and green do not converge, and so as to show an uniform and unbroken green light over an arc of the horizon of 12 points of the compass, and an uniform and unbroken red light over an arc of the horizon of 12 points of the compass, and it shall be so fixed as to show the green light from right ahead to four points abaft the beam on the starboard side, and the red light from right ahead to four points abaft the beam on the port side: and (2) a white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, the lanthorn containing such white light shall be carried lower than lanthorn the green and red lights as aforesaid, so, however, that the vertical distance between them shall not be less than 6 feet and not more than 12 feet.

1885. SAILING TRAWLERS OF ANY TONNAGE.

As regards sailing vessels engaged in trawling, such vessels having their trawls in the water and not being stationary in consequence of their gear getting fast to a rock or other obstruction, if they do not carry and show the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in Part 2 of the Schedule to the said recited Order in Council of the 30th of December 1884, shall carry and show in lieu of the lights required by Article 6 of the Regulations aforesaid, or the other lights of the description set forth in paragraph 2 of the Schedule to the said recited Order, other lights as follows, that is to say:

A white light in a globular lanthorn of not less than eight inches in diameter, and so constructed as to show a clear uniform and unbroken light all round the horizon, and visible on a dark night

with a clear atmosphere for a distance of at least 2 miles; and also a sufficient supply of red pyrotechnic lights which shall each burn for at least 3) seconds, and shall, when so burning, be visible for the same distance under the same conditions as the white light. The white light shall be shown from sunset to sunrise, and one of the red pyrotechnic lights shall be shown on approaching, or on being approached by another ship or vessel in sufficient time to prevent collision.

AIDS TO MEMORY IN FOUR VERSES, BY THOMAS GRAY.

1. *Two Steam-ships meeting.*

When both side lights you see ahead—
Port your helm and show your RED.

2. *Two Steam-ships passing.*

GREEN to GREEN—or, RED to RED—
Perfect safety—Go ahead!

3. *Two Steam-ships crossing*

Note.—This is the position of greatest danger: there is nothing for it but good look-out, caution, and judgment.

If to your starboard RED appear,
It is your duty to keep clear;
To act as judgment says is proper;—
To Port—or Starboard—Back,—or, Stop her!
But when upon your Port is seen
A Steamer's Starboard Light of GREEN,
There's not so much for you to do,
For GREEN to Port keeps clear of you.

4. *All Ships must keep a good look-out, and Steam-ships must stop and go astern, if necessary.*

Both in safety and in doubt
Always keep a good look-out;
In danger, with no room to turn,
Ease her, stop her, go astern.

14*th October* 1867.

APPENDIX C.

DISTRESS AND PILOT SIGNALS.

M. S. Act 1873.

The following sections, together with the schedules referred to therein, of the "Merchant Shipping Acts, Amendment Act, 1873," relate to Signals of Distress and Signals for Pilots. (*See also "Regulations for preventing Collisions at Sea. Article* 27.)

Signals of distress.

18. The signals specified in the first schedule to this Act shall be deemed to be signals of distress.

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals, except in the case of a vessel being in distress, shall be liable to pay compensation for any labour undertaken, risk incurred, or loss sustained in consequence of such signal having been supposed to be a signal of distress, and such compensation may, without prejudice to any other remedy, be recovered in the same manner in which salvage is recoverable.

Signals for pilots.

19. If a vessel requires the services of a pilot, the signals to be used and displayed shall be those specified in the second schedule to this A

Any master of a vessel who uses or displays, or causes or permits any person under his authority to use or display, any of the said signals for any other purpose than that of summoning a pilot, or uses or causes or permits any person under his authority to use any other signal for a pilot, shall incur a penalty not exceeding twenty pounds.

Power to alter rules as to signals.

20. Her Majesty may from time to time by Order in Council repeal or alter the rules as to signals contained in the schedules to this Act or make new rules in addition thereto, or in substitution therefor, and any alterations in or additions to such rules made in manner aforesaid shall be of the same force as the rules in the said schedules.

SCHEDULES.

SCHEDULE I.—SIGNALS OF DISTRESS.

In the day time.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress in the daytime:—

1. A gun fired at intervals of about a minute;
2. The International Code signal of distress indicated by N C;
3. The distant signal, consisting of a square flag having either above or below it a ball, or anything resembling a ball.

At night.—The following signals, numbered 1, 2 and 3, when used or displayed together or separately, shall be deemed to be signals of distress at night:

1. A gun fired at intervals of about a minute;
2. Flames on the ship (as from a burning tar barrel, oil barrel, &c.);
3. Rockets or shells, of any colour or description, fired one at a time, at short intervals.

SCHEDULE II.—SIGNALS TO BE MADE BY SHIPS WANTING A PILOT.

In the day time.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot in the day time, viz:—

1. To be hoisted at the fore, the Jack or other national colour usually worn by merchant ships, having round it a white border, one-fifth of the breadth of the flag; or
2. The International Code pilotage signal indicated by P T.

At night.—The following signals, numbered 1 and 2, when used or displayed together or separately, shall be deemed to be signals for a pilot at night, viz.—

1. The pyrotechnic light, commonly known as a blue light, every fifteen minutes; or
2. A bright white light, flashed or shown at short or frequent intervals, just above the bulwarks, for about a minute at a time.

APPENDIX D.

EXAMINATION IN CHART.

FOR ALL GRADES WHERE THE CHART IS USED (INCLUDING "HOME TRADE" CANDIDATES).

[The candidate will be required to work out the following questions on either a "true" or "magnetic" chart, * whichever may be handed to him by the Examiner; and also determine whether the chart is a "true" or "magnetic" one, and whether it is for the northern or southern, and eastern or western hemispheres.

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1. Using deviation [card] [curve] † No. find the course to steer by compass from to ; also the distance.

Answer.—Compass course .
Distance .
Variation .
Deviation .

2. With the ship's head on the above-named compass course a [point] [light-house] bore by compass and bore by the same compass, find the ship's position.

Answer.—Latitude .
Longitude .

3. With the ship's head as above, a [point] [light-house] boro by compass , and after continuing on the same course miles, it bore , find the position of ship and her distance from at the time of taking the second bearing.

Answer.—Latitude .
Longitude .
Distance .

All the foregoing questions must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature .
Date .
Chart used .

ADDITIONAL FOR MASTERS (INCLUDING "HOME TRADE" CANDIDATES).

4. Find the course to steer by compass from to (*see* Question 1) to counteract the effect of a

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* The terms "true" and "magnetic" are used for the sake of brevity, and convenience, for indicating charts that have compasses delineated upon them showing the "true" or "magnetic" points of the compass respectively.

† A candidate for a Master's Certificate is expected to use either a card of deviations, or a curve of deviations on a Napier's diagram, whichever the Examiner may think proper to put before him

current which set at the rate of miles per hour, the ship making by log miles per hour; also the distance the ship would then make good in hours towards

Answer.—Compass course

Distance

5. On being off took a cast of the lead; required the correction to be applied to the depth obtained by the lead line before comparing it with the depth marked on the chart.

6. What do you understand the small numbers to indicate that you see placed about the chart, and at what time of tide?

7. What do the Roman numerals indicate that are occasionally seen near the coasts and in harbours?

8. How would you find, approximately, the time of high water at any place, the Admiralty tables not being at hand nor any other special tables available?

All the foregoing questions, and those on Form Exn. 9 C., must be answered, but this does not preclude the Examiner from putting any other questions of a practical character or which the local circumstances of the port may require.

Signature

Date

APPENDIX E.

DEVIATION OF THE COMPASS.

(For Masters of Home Trade Ships.)

[The Applicant must answer in writing, on paper given him by the Examiner, all the following questions, numbering his answers to correspond with the numbers of the questions.]

1. When taking a Meridian Altitude, how do you know when the sun is on the Meridian; or, in other words, when it is noon?
2. How does the sun bear when on the meredian of an observer in these latitudes (Home Trade Limits)?
3. What do you mean by deviation of the compass, and how is it caused?
4. Having determined the deviation, how do you know when it is easterly, and when westerly?
5. Supposing the sun when on the meridian bore by your compass——————what would be the deviation of that Compass for the direction of the ship's head at the time, the variation given on the Chart being——————?
6. How could you find the deviation of your Compass when in port, or when sailing along a cost?
7. Name some suitable objects by which you could readily obtain the deviation of your Compass, when sailing along the coasts of the Channel you have been accustomed to use?
8. The bearing of two objects when in a line with each other was found on the Chart to be——————magnetic; but when brought in a line on board they bore——————by your Compass; required the deviation of your Compass for the direction of the ship's head at the time?
9. What means are there for checking the deviation of your Compass by night?
10. Supposing the North Star (*Polaris*) bore——————by your Compass, what would be the deviation (approximately) of that Compass for the direction the ship's head at the time, supposing the variation given on the Chart to be——————?
11. Do you expect the deviation to change? if so, state under what circumstances?
12. What is meant by variation of the Compass, and what is the cause of it?

APPENDIX F.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*) A lanthorn having in it a lamp in which kerosine is to be burnt.

(*b*) A slide having ground glass in it.

(*c*) Nine slides, each having a coloured glass in it. The colours are as follow :—

1. Red (Standard).
2. Pink or salmon.
3. Green (Standard or No. 1.
4. Green (Bottle or No. 2).
5. Green* (Pale or No. 3).
6. Yellow.
7. Neutral.*
8. Blue (Standard).
9. Blue* (Pale).

(*d*) Cards, five of each as follow :—

1. White
2. Black.
3. Red.
4. Pink.*
5. Green.
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards.)

In conducting the examination by daylight the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately, and ask the candidate to name the colour, and if the candidate does so without hesitation, he is to be regarded as having passed the day-light test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner.
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap
4. The result of the examination should be noted and recorded in each case.

Examination by Artificial light.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn; and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so, what colour ?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question.

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General.

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c. ; or to name card No. 7 as red, green, or yellow ; or glass No. 2 as green blue, or yellow ; or glass No. 5 as red, pink, salmon, &c. ; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn. 17B.

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black, by daylight ; and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown), he may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MASTER.

To_____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of Master in the* _____ *service, I do hereby, in pursuance of Act No. I of* 1859 *of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

this _____ *day of* _____ 18____. *Under-Secy. to the Govt. of Bengal.*

No. of Certificate

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at Calcutta on the*_____*day of*_____18____.

Registered,

Port Officer of Calcutta.

Government of Bengal

By the Honourable the Lieutenant-Governor of Bengal.

Local Certificate of Competency

AS

MATE.

To _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found duly qualified to fulfil the duties of* _____ *Mate in the* _____ *service, I do hereby, in pursuance of Act No. I of 1859 of the Legislative Council of India, grant you this CERTIFICATE OF COMPETENCY.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

this _____ *day of* _____ 18 . *Under-Secy to the Govt of Bengal.*

No. of Certificate

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any MASTER or MATE who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this certificate is required to transmit it forthwith to the Port Officer, Calcutta.

*Issued at Calcutta on the*_____*day of*_____18____.

Registered,

Port Officer of Calcutta.

NOTICE.

Candidates applying to be examined for Certificates of Competency are hereby informed that no remuneration or gratuity whatever, either directly or indirectly, can be received by any Officer, Messenger, or Servant of the Government, except the lawful fees stated in the Regulations, which are to be paid to the Port Officer when the Candidate makes his application.

Any Officer, Messenger, or Servant of the Government accepting any present or gratuity is liable to summary dismissal, and any Candidate so offering money will be subject to the penalty mentioned in para. 16 of the Regulations relating to the examination of Masters, or para. 35 of those relating to the examination of Engineers and Engine-drivers as the case may be.

Every case in which an applicant has paid, or pays hereafter, any fee or gratuity to any Officer, Messenger, or Servant, on any pretence whatever, other than the prescribed fees for examination, should be reported to the Local Government.

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal.

P. W. (Marine) Dept.

REGULATIONS

RELATING TO THE

EXAMINATION OF MASTERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, 1884, no inland steam-vessel having engines of eighty nominal horse-power or upwards is allowed to proceed on any voyage unless her master possesses a first class master's certificate granted under the Act, or a master's certificate granted under Act I of 1859 (*for the amendment of the law relating to merchant seamen*), or the Merchant Shipping Acts, 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power is allowed to proceed on any voyage unless her master possesses a second class master's certificate granted under the Act, or a certificate of the higher grade of the nature referred to above:

Provided that a steam-vessel having engines of under eighty nominal horse-power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act

Any person who having been engaged to serve as master of an inland steam-vessel proceeds on any voyage in that steam-vessel as master without being at the time entitled to and possessed of the certificate required under the Act, and any person who employs any person as such master without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees*.

NOTIFICATION.

No 27 Marine, dated Calcutta, the 31st January 1890.

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to masters of inland steam-vessels.

W. B BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates granted to persons who pass examinations.

1. *Certificates of Competency* will be granted to those persons who pass the requisite examinations, and otherwise comply with the requisite conditions. For this purpose arrangements have been made for holding examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined.

2. The examinations will be held by the Port Officer and one or more other examiners to be appointed by the Government from time to time They will commence early in the forenoon, and will be continued from day to day until all the Candidates whose names appear upon the Port Officer's list on the day of examination are examined

3. Candidates for examination must make their application upon the appropriate form (Exn. 2*b*), which must be filled up at the Port Office. The Exn 2*b* properly filled in, together with the candidates' testimonials and discharges, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials of character, conduct, and ability required.

4 Testimonials of character, and of sobriety, experience, ability, and good conduct on board ship for at least the twelve months of service immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. As such testimonials and discharges may have to be verified before the candidate can be examined, it is desirable that they should be handed in, together with the Forms Exn 2*b*, as early as possible

Testimonials of Foreigners.

5. The testimonials of servitude of Foreigners and of British seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificates as to Age.

6. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

7. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel. In the case of natives of India, who may not be able to speak English, their certificate shall be endorsed to the effect that they are valid only for vessels manned and officered entirely by Asiatics.

Colour Tests.-

8. The Government have made the following arrangements for the examination of persons as to their ability to distinguish colours :—*

9. Examinations in Colour are open to any person serving or about to serve in the Mercantile Marine.

10. Any person, including the holders of Certificates of Competency, or persons about to apply for Certificates of Competency, if desirous of being examined *in Colours only*, must make application to the Port Officer on Form Exn. 2*a*, and pay a fee of one rupee.

11. He must on the appointed day attend for examination at the Examiner's Office; and if he passes he will receive a certificate to that effect.

12. If he fails it will be open to him to be examined again in Colours as often as he pleases on payment of the fee of one rupee at each fresh attempt.

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* *See* Apendix A.

13. The application of a *Candidate who is presenting himself for Examination for a Master's Certificate* must be made on Form Exn. 2*b*. Such examination will commence with the Colour test; and if the Candidate does not, at the time of making application, hold a Certificate of Competency of any grade, and should fail to distinguish correctly any one of the colours used in the test, he will not be allowed to proceed with the examination

14. The fee he has paid for Examination for a Certificate of Competency will include the fee for the Colour test, and, with the exception of one rupee, will in such event be returned to him.

15. A candidate for Examination for a Certificate of Competency who, at the time of making application, does not possess a Certificate, and who fails to pass the colour test, may not be re-examined until after the lapse of three months from the date of his first failure. If the fails a second time, he will be allowed a third trial at the expiration of another three months from the date of his second failure. A fresh fee must be paid at each succeeding examination.

16. It is therefore obviously to the advantage of Candidates for Certificates of Competency to apply in the first instance to be examined in *Colours only* on Form Exn 2*a*.

17. A Candidate who holds a Certificate of Competency, and who, on presenting himself for Examination for a Certificate of a higher grade, is unable to pass the Colour test, will notwithstanding be permitted to proceed with the Examination for the Certificate of the higher grade.

18. Should he pass this examination, the following statement will be written on the face of the higher Certificate which may be granted to him, viz.—"This Officer has failed to pass the Examination in Colours."

19. Should be ultimately fail to pass the Examination, a like statement, relating to his being Colour blind, will be made by the Port Officer on his existing Certificate before it is returned to him.

20. Holders of Certificates which bear the statement of their having failed to pass in Colours, and who may desire to have the statement removed from their Certificates, must obtain the special permission of the Government.

Qualifications for Certificates of Competency as First Class Masters.

21. *Examination in Colours.*—All candidates for certificates of competency must first be examined in colours.*

22. A candidate for a certificate as first class master of inland steam-vessels must be not less than twenty-four years of age, and must have served as a second class master in charge of a steam-vessel for not less than three years, or he must be not less than twenty-two years of age, hold a certificate of competency as second mate granted under Act I of 1859 (for the amendment of the law relating to Merchant Seamen) or the Merchant Shipping Acts 1854 to 1883, or a certificate to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869. and have served as Mate of an inland steam vessel or master of a river flat for not less than one year.

23. Each candidate will be examined apart, and *viva voce*, in each and all of the following subjects :—

(1)—The rules of the road.
(2)—The management of river steamers under all contingencies.
(3)—The tide table.
(4)—Storm signals.
(5)—The provisions of Act VI of 1884, and the rules framed under sections 21, 29, 50 and 51 of the Act.

Qualifications for Certificates of Competency as Second Class Masters.

Examination in Colours.—All candidates for certificates of Competency must first be examined in colours.*

24. A candidate for a certificate as second class Master of an inland steam-vessel must not be less than twenty-one years of age and must produce satisfactory certificates of

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* See Appendix A.

sobriety and intelligence, and that he has served three years as Mate of a small steam-vessel or as chief helmsman of a steam-vessel of over 80 horse power, and shall be examined *viva voce* as to his knowledge in the following subjects:—

(1)—The rules of the road.
(2)—The management of small river steamers.
(3)—Storm signals.

Failure.

Re-examination in case of failure

25. If a candidate fails, he will not be re-examined *until after a lapse* of three months from the date of such failure.

Certificate of lower grade.

26. If a candidate has failed in his examination, but the subjects in which he has failed are not included in the subjects required for a certificate of a lower grade, he may, if he desires it, receive a certificate of such lower grade.

27. No part, however, of the fee he has paid will be returned to him, and on presenting himself, when entitled so to do, for re-examination for the higher grade of certificate he will be required to pay again the full fee.

Fees.

28. Candidates for examination, in making their application on Form Exn. 2*b*, will be required to pay the examination fee before any step is taken, whether by enquiring into their services or testing their qualifications, &c. Should it be found that their service is not sufficient to entitle them to be examined, or should their testimonials be unsatisfactory, or should they from any other cause not be examined, no part of the fee will be returned to them, but when they have fulfilled the requisite service, or are able to produce satisfactory testimonials as the case may be, they will be allowed to again present themselves for examination for a certificate of the same grade without paying any further fee.

Fees to be paid by applicants for examination.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected and not allowed to be again examined for twelve months.

30. If a candidate fails in his examination, *no part of the fee will be returned to him.*

31. If the candidate satisfy the examiners as to his knowledge of the prescribed subjects, and generally as to his competency to command an inland river steamer, they shall certify the same to the Government, which will then grant a certificate to the candidate

Form Exn 16 Completion of examination.

32. The fees are as follows:—

	Rs.
First Class Master	16
Second Class Master	6
Renewal of a certificate	5

General.

33. Certificates of competency of first and second class masters shall be made and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

INSTRUCTIONS TO EXAMINERS.

Examination in Colours.

Herewith are—

(*a*.) A lanthorn having in it a lamp in which kerosine is to be burnt.
(*b*.) A side having ground glass in it.

(*c.*) Nine slides, each having a coloured glass in it. The colours are as follows :—

1. Red (Standard).
2. Pink or salmon
3. Green (Standard or No 1).
4. Green (Bottle or No. 2).
5. Green* (Pale or No 3)
6. Yellow
7. Neutral *
8. Blue (Standard).
9. Blue* (Pale).

(*d.*) Cards, five of each as follow :—

1. White
2. Black.
3. Red.
4. Pink *
5. Green
6. Drab.*
7. Blue.
8. Yellow.

Examination by Daylight. (Cards)

In conducting the examination by daylight the examiner should do it in three ways—

1. The cards should be mixed up. The examiner should then hold up each card separately and ask the candidate to name the colour, and if the candidate does so without hesitation he is to be regarded as having passed the daylight test.
2. If the candidate hesitates in any of his answers so as to raise a doubt in the mind of the examiner as to his ability to readily distinguish colours, the examiner should put all the cards on the table and require the candidate to select all cards of a colour or colours named by the examiner
3. Having done that they should all be mixed up again and the candidate should be required to sort the cards into eight heaps, putting all of one colour into each heap.
4. The result of the examination should be noted and recorded in each case.

The room should be dark.

The lamp lighted and placed in the lanthorn.

The applicant should be seated or should stand so as to be opposite to the opening of the lanthorn , and, at least, 15 feet from the front of the lanthorn.

He should first of all see the light in the lanthorn without the interposition of any glass and be asked if it appears to him to have any colour, and if so what colour?

The slide with the ground glass should then be put into the opening at the front of the lanthorn which is nearest to the light, and the applicant asked the same question

The slide with the ground glass is to be left in, and the slides with the coloured glasses placed one by one and separately in front of it, and the candidate asked in each case to name the colour or tint.

The result of the examination should of course be noted and recorded in each case.

General

The cards and glasses against which a star* is placed in the list are what may be called confusion tints. The candidate is not to be regarded as having "failed" if he miscalls these tints, provided that he names all the others correctly. But if having named all the others correctly he miscalls these so far as to name the drab card No. 6 as red, pink, salmon, &c.; or to name card No. 7 as red, green, or yellow; or glass No. 2 as green, blue, or yellow ; or glass No. 5 as red, pink, salmon, &c.; or glass No. 7 as bright red or bright green ; or the plain ground glass any colour, the case should be reported for record. In short, if the candidate's perception or impression of these tints does not agree with the perception of the examiner, the case should be reported on the Form Exn 17B

The only reasons for which a candidate is to be reported as having failed are inability to distinguish red from green, or either from black by daylight, and red from green, or either from the ground glass, by artificial light.

If a candidate fails in the colour test when the ground glass is in the lanthorn (as it is always to be when the coloured glasses are shown) the may also be tried over again with the coloured glasses without the intervention of the ground glass, and the result noted and recorded.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

FIRST CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr. _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of First-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such First-class Master.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18____.

No. of Certificate

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

*Issued at Calcutta on the*_____*day of*_____18____.

Registered,

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

SECOND CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To

Mr. _____

Whereas *it has been reported to the Lieutenant-Governor that you have been found, after examination, duly qualified to fulfil the duties of Second-class Master of an Inland Steam-Vessel under Act VI of* 1884, *I do hereby grant you this CERTIFICATE OF COMPETENCY as such Second-class Master.*

By order of the Government of Bengal,

Given *under my* Hand and Seal,

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18——.

No. of Certificate

Bearer _____ *son of* _____ *by caste* _____

Date and Place of Birth, showing Village, Thana and District* _____

Residence, showing Village, Thana and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

No. of Register Ticket _____

Signature _____

Any master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence.

REGULATIONS

RELATING TO THE

EXAMINATION OF ENGINEERS AND ENGINE-DRIVERS OF INLAND STEAM-VESSELS.

Preliminary.

UNDER the provisions of the Inland Steam-Vessels Act, an inland steam-vessel having engines of eighty nominal horse power or upwards cannot proceed on any voyage unless her engineer possesses an engineer's certificate granted under the Act or the Indian Steam Ships Act, 1884, or the Merchant Shipping Acts, 1854 to 1883, or to which the provisions of any such Act have been made applicable under the Merchant Shipping (Colonial) Act, 1869; and no such ship having engines of under eighty nominal horse-power can proceed on any voyage unless she has as her engineer a person possessing an engine-driver's certificate granted under the Act or the Indian Steam-Ships Act, 1884, or a certificate of the higher grade of the nature referred to above: Provided that a steam-vessel having engines of under eighty nominal horse-power shall be deemed to have complied with the law if she has as her master and engineer a person possessing both a second class master's certificate and an engine-driver's certificate granted under the Act.

Any person who has been engaged to serve as Engineer or engine-driver of an inland steam-vessel proceeds on any voyage in that steam-vessel as engineer or engine-driver, as the case may be, without being at the time entitled to, and possessed of, the certificate required under the Act, and any person who employs any person as engineer or engine-driver without ascertaining that he is at the time entitled to, and possessed of, the certificate required under the Act, is liable to be punished with fine which may extend to *five hundred rupees*.

NOTIFICATION.

No. 28 Marine, dated Calcutta, the 31st of January 1890.

UNDER the powers conferred upon him by section 29 of the Inland Steam-Vessels Act, 1884, and with the previous sanction of the Governor-General in Council, the Lieutenant-Governor is pleased to make the following rules to regulate the granting of certificates of competency to engineers and engine-drivers of inland steam-vessels.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal.

Certificates of competency granted to persons who pass requisite examinations.

1. Certificates of competency will be granted to those persons who pass the requisite examinations and otherwise comply with the requisite conditions. For this purpose examiners have been appointed and arrangements have been made for holding the examinations periodically at the port of Calcutta.

Examinations continued till all the candidates are examined.

2. The examinations will commence early in the forenoon and will be continued from day to day until all the candidates whose names appear upon the Port Officer's list on the day of examination are examined.

Application how to be made.

3. Candidates for examination must make their application upon Form Exn. 3, which must be filled up at the Port Office. The Exn. 3 properly filled in, together with the candidate's testimonials, must be lodged with the Port Officer not later than the day before the day of examination.

Testimonials required

4. Testimonials of character, and of sobriety, experience, ability, and good conduct for at least the 12 months immediately preceding the date of application to be examined, will be required of all applicants, and without producing them no person will be examined. If the service has been on shore, the testimonial must be signed by an employer; if at sea, by either the master, managing owner, chief or superintending engineer.

5. As such testimonials and discharges may have to be verified before the candidates can be examined, it is

desirable that they should be handed in, together with the Form Exn. 3, as early as possible.

Testimonials of Foreigners

6. The testimonials of servitude of Foreigners and of British Seamen serving in foreign vessels which cannot be verified by the Port Officer must be confirmed either by the Consul of the country to which the ship in which the candidate served belonged, or by some other recognized official authority of that country; or by the testimony of some credible person on the spot having personal knowledge of the facts required to be established. The production, however, of such proofs will not of necessity be deemed sufficient. Each case must be decided on its own merits; and if the sufficiency of the proofs given appears to be at all doubtful, the point must be referred to the Government.

Certificate as to age

7. Should any doubt exist as to the age of a candidate, he will be required to produce a certificate of birth or baptism.

Foreigners to know English.

8. Foreigners must prove to the satisfaction of the Examiners that they can speak and write the English language sufficiently well to perform the duties required of them on board a British vessel.

Verification of services, &c., by Articles

9. Services which cannot be verified by proper entries in the articles of the ships in which the candidates have served cannot be counted.

Qualifications for Certificates of Competency as Engineers.

Qualification of candidate for Inland Engineer's Certificate

10. A candidate must be not less than twenty-two years of age:—

(*a*) He must have served an apprenticeship to an engineer, of three years in England or five years in India, and must prove that during the period of his apprenticeship he has been employed on the making and repairing of engines. Or, if he has not served an apprenticeship, he must prove that for not less than three years in England or five years in India he has been employed as a journeyman or masterhand in some factory or workshop on the making or repairing of engines. In either case he must also have served two years thereafter in the engine room of a steamer of over 80 horse power, or as a certificated engine-driver in a steamer of less than 80 horse power.

Or failing the above service he must have served as a certificated engine-driver in charge of a steamer for not less than four years.

(*b*) He must be able to give a description of boilers, and the methods of stays ing them, together with the use and management of the different valves, cocks, pipes, and connections.

(*c*) He must understand how to correct defects from accident, decay, or other causes and the means of repairing such defects.

(*d*) He must understand the use of the barometer, thermometer, and salinometer, and the principles on which they are constructed.

(*e*) He must state the causes, effects, and usual remedies for incrustation and corrosion.

(*f*) He must be able to state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or total breakdown.

(*g*) He must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, and full capacities of tanks and bunkers, the duty of pumps, and the direct strains in engines and boilers.

(*h*) He must be able to pass a creditable examination as to the various constructions of paddle and screw engines in general use; as to the details of the different working parts, external and internal, and the use of each part.

Qualifications for Certificates of Competency as Engine-drivers.

11. Candidates for examination must make their application upon the appropriate Form (Exn. 3*b*), which must be filled up at the Port Office.

12. A candidate for a certificate of competency as engine-driver must have attained the age of twenty-two years.

He must have served an apprenticeship of at least four years if in India or three years in the United Kingdom, and have served as assistant engineer for one year on a steamer of not less than 80 horse power.

Or he must have been three years principal serang or tindal in the engine-room of a steamer, or have been for three years in charge of the engine of a factory or mill under a European manager or engineer, as well as one year principal serang or tindal or assistant engineer in the engine-room of a steamer under a certificated engineer.

13. He must have the testimonial shown in Appendix B filled up by the engineer with whom he has last served, or his other testimonials must contain all the particulars therein required.

14. He must pass a *viva voce* examination before the Board of Examiners as to the working of an engine and the use of its different parts.

15. He must be able, if required, to show his practical qualifications by one week's trial in a steamer after fulfilling the other tests to which he will be subjected.

General Rules as to Examinations.

Candidates not to take books, &c., into examination room.

16. All books necessary for the use of candidates under examination will be provided by the Government, and applicants will not be permitted to take into the examination room any book, paper, document, or memoranda of any description whatever; and, subject to the provisions referred to hereafter, they will also not be allowed to work out their problems on a slate or on waste paper

17. Candidates will be allowed in the time allotted to cancel any part of their work, and when required additional papers will be supplied by the Examiners. These additional sheets must be attached to, and form part of, the examination papers.

Punishment for breaking rules.

18. In the event of any candidate being discovered copying from another, or affording any assistance or giving any information to another, or communicating in any way with another during the time of examination, he will be regarded as having failed in his examination, and will be turned back for three months, in the same manner as if he had failed in the practical part of the examination; and no part of the fees he may have paid for examination will be returned to him.

Leaving examination room.

19. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the examiners may substitute other data or another question.

Questions from Form Exn. 15*a*.

20. All applicants presenting themselves for examination for certificates of competency as engineers will be required to give written answers to eight out of a list of ten questions selected from Form Exn. 15*a*,* "Elementary Questions for the first examinations of Engineers for certificates of competency" These questions are intended to furnish a record to some extent of the candidate's knowledge at the time of his examination, and also to induce the candidates to pay more attention to their handwriting and spelling.

21. The Form Exn. 15*b*., on which these answers will be written, contains also some questions as to the experience of the applicant, to be answered by him in writing.

22. Examiners may add to their *viva voce* questions on the practical management of steam engines and boilers any of those contained in Exn. 15*a*.

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* *See* Appendix A.

23. If at the expiration of the time allowed the candidate has worked out correctly the whole of the questions set to him, and given satisfactory answers in the *vivâ voce* examination, he will be declared to have passed.

24. If at the expiration of the time allowed he has not worked out the whole of the questions set to him, but if the result of the *vivâ voce* examination taken in connection with the answers to such of the questions as he has worked out is sufficient to satisfy the Examiner that the applicant is competent to take charge of engines, he will be declared to have passed.

25. In other cases he will be declared to have failed.

(Exn. 15) 26. A report of the examination, and the examination papers, will be forwarded to the Government on the Form (Exn. 15).

Notification of having passed will be given to successful candidates. (Exn 16) 27. If the candidate passes, he will receive the Form Exn. 16, upon which the Government will issue the certificate to the candidate, whose testimonials, &c, will be returned at the same time. It is therefore important that the port of destination of the certificate should be the same on both the Form Exn. 16 and the Form Exn. 2. If circumstances should make any alteration necessary, the examiners should see that it is made in both forms, otherwise delay in the issue of the certificate may be caused.

Fees.

Fees to be paid by applicants for examination. 28. Candidates for examination, in making their application on Form Exn. 3 or Exn. 3*b*, will be required to pay the examination fees before any step is taken, whether by inquiring into their services or testing their qualifications, &c. No part of the fee will under any circumstances be returned to them, but should it be found that their service is not sufficient to entitle them to be examined, or that their testimonials are unsatisfactory, they will be allowed to present themselves for examination without paying any further fee, when they have fulfilled the requisite service, or are able to produce satisfactory testimonials, as the case may be.

29. The fee for examination must be paid to the Port Officer. In any case in which a candidate offers money to any other officer, and in any place but in the Port Office, the candidate so offering money will be regarded as having committed an act of misconduct, and will be rejected, and not allowed to be examined for twelve months.

30. If a candidate fails in his examinations, *no part of the fee he has paid will be returned to him.*

31. The fees are as follow :—

	Rs.
Engineers	12
Engine drivers	10
Renewal of a certificate	5

Failure.

32. If the applicant fails in the *vivâ voce* or practical part of the examination, he may not present himself for re-examination until he can produce proofs of THREE MONTHS' further service afloat. If he fails in arithmetic or drawing only, he may come up again at any time. Engine-drivers may be examined *de novo* after six months, if the past examination showed that they might reasonably be expected to qualify.

General.

33. Certificates of competency of engineers and engine-driver shall be made out and issued in the forms hereunto annexed.

34. Every certificate of competency shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

APPENDIX A.

Form Exn. 15a.

ELEMENTARY QUESTIONS FOR THE FIRST EXAMINATIONS OF ENGINEERS FOR CERTIFICATES OF COMPETENCY.

To Engineer Examiners.

Examiners will require all candidates to fill up a form, Exn. 15b., of which a copy is enclosed, and they will forward the same to the Government along with the report of the examination.

The arithmetical questions for Engineers and the *viva voce* examinations for all candidates will be continued as heretofore, and failure in the elementary questions will be treated as failure in arithmetic.

The numbers of the questions for each examination will be selected by the examiners, and they are not to be communicated to the candidate until his examination commences.

Exn. 15b.

Port _____	Class for which examined _____
Date _____	Candidate's name _____

A. Where and how long did you serve in works at the making or at the repairing of Engines, and in what capacities?

B. How long have you served as fireman or trimmer?

C. How long have you served in the Engine-room at sea, and in what capacities?

D. With what descriptions of Engines have you served at sea—Paddle or Screw or both, Jet Condensing, Surface Condensing, or Non-condensing Engines, Compounds, Trunks, Inverted Cylinders, or Horizontal Engines? What size were the Engines?

E. With what descriptions of Boilers have you served at sea—Rectangular or Cylindrical, Wet-bottomed or Dry-bottomed, Multitubular, Sectional or Flue Boilers?

F. What Engine defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

G. What Boiler defects have come under your notice at sea, what caused these defects, and how were they remedied? Give the names of the Steamers for verification.

For the questions to be answered on the following pages, *See* the book of Elementary Questions. The questions need not be written: only the answers to them.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

Question No.

ELEMENTARY QUESTIONS.

1.

What parts of an engine are generally made of wrought-iron?

2.

What parts of an engine are generally made of cast-iron?

3.

For what parts of an engine is steel sometimes used?

4.

What parts of an engine are generally made of brass or gun-metal?

5.

Where is "white metal" sometimes used? On account of what property possessed by it is it adopted? What objection is there to its more general use?

6.

For what parts is Muntz metal sometimes used? Is it malleable? For what properties is it valued?

7.

What difference is there in the composition of cast-iron, of wrought-iron, and of steel?

8.

How can cast-iron, wrought-iron, and steel be distinguished from each other?

9.

What are the different properties of cast-iron, of wrought-iron, and of steel.

10.

What is meant by the terms "breaking stress," "proof stress," "safe-working stress"?

11.

What is the cohesive strength or breaking stress of good ordinary wrought-iron?

12.

Tempering steel: how is it done, and in what order do the colours come?

13.

What is case-hardening?

14.

Which of the common metals or alloys can be forged, and which of them are brittle or "short"?

15.

What is meant by "welding"? Which of the common metals can be welded?

16.

The expansion of metals by heat: give examples of this in the engine and in the boiler.

17.

In the construction of cylindrical marine boilers, for what parts have the plates to be worked hot? When the material is steel, what precautionary treatment of these plates is afterwards necessary?

18.

What is double riveting? In what parts of cylindrical marine boilers is double riveting employed? In which of the shell seams is it most necessary?

19.

What is "caulking," and how are seams prepared for caulking?

20.

Describe the different ways of fastening the ends of the main stays of a boiler. What are the merits of, or objections to, the different plans?

21.

What strain per square inch is allowed on boiler stays?

22.

Describe a riveted stay, and state where such stays are commonly used.

23.

Where are thin plates to be looked for in a boiler as it wears, and how is the thinness to be detected?

24.

How are boiler tubes fixed? What are "stay tubes," and how are they secured?

25.

Where is it generally that boiler tubes leak? How is this defect repaired? What are the causes of this leaking?

26.

What are the causes of cracked tube plates? Where are the cracks situated? How are they repaired?

27.

What is the difference between a "dry uptake" and a "wet uptake"? Which requires most repair? Why? Where have you seen a wet uptake?

28.

What is a superheater? What is its construction? What valves are on it? There is sometimes a gauge glass on it; what is that for?

29.

What parts of a marine tubular boiler are first injured by shortness of water?

30.

Where are angle irons sometimes used in the construction of a boiler, and where are flanged plates used?

31.

Priming: to what causes is it attributed? What means are applied to prevent it? What evils may be produced by it?

32.

Funnel draught: what makes it? What checks it?

33.

Flame is sometimes seen at the top of the funnel: what causes this appearance? Is it beneficial or is it detrimental? Why so?

34.

A blast pipe: what is its construction? Where is it placed For what is it used?

35.

How many bottom blow-off cocks are generally fitted to each boiler, and why are they so fitted?

36.

Blow-off cocks are sometimes fitted with a spanner guard: for what purpose is this? Describe how the guard is formed?

37.

Test cocks or water-gauge cocks: where are they placed? At what heights? Must the cocks themselves be at those heights? What provision is made for cleaning these cocks? Should they ever become choked? When there are no test cocks, how is the height of the water ascertained?

38.

What is a dead-weight safety valve? Of what are the rubbing surfaces formed? How is a lock-up valve arranged to admit of lifting it or of turning it round, and to prevent adding to the weight?

39.

About what area of safety valve is now required by the Board of Trade? What area was formerly required, and on what ground has that been altered? What is the effect of suddenly opening a safety valve when steam is up? To about what extent do safety valves rise when blowing off without being eased by hand?

40.

Spring-loaded safety valves: what advantages have they that are not possessed by dead-weight valves? What are the disadvantages as compared with dead-weight valves?

41.

Of what pieces does a glass water gauge mounting consist? How does it act? Where is it placed? At what height? Is it liable to derangement? How is its working tested?

42.

Glass water gauges have sometimes pipe connections top and bottom: what is the object of this arrangement? Should there be cocks at the extremities of these pipes?

43.

Describe a Bourdon's steam gauge. Some gauges have an inverted syphon pipe below them: what is its use?

44.

Why is a small cock sometimes put on the pipe leading to a steam gauge? Where should it be placed, and what error might be made by omitting to use it?

45.

Do steam gauges indicate the total pressure of the steam, or only a portion of that pressure? What is the pressure measured from?

46.

What is meant by the salting of the boiler? How is this prevented? What is the density of ordinary sea water? How is the density ascertained? What is the difference between the formation of scale and the salting of the boiler? What is the maximum density at which boilers should be worked at sea?

47.

Scum cocks and pipes: how are they arranged? Where are they placed? At what height in the boiler? When are they used? When must they be shut? Neglect of these cocks lead to what dangers?

48.

Scale: of what does it consist? Where is it most objectionable? How is it removed? How is its formation prevented? What evil effects are produced by it?

49.

What is a salinometer? Of what does it consist? How does it act? How is it graduated? Can it be used at any temperature indiscriminately?

50.

What harm may be done through the check valve of one of a set of boilers being defective while under way? How would you work to avoid this harm?

51.

How is the leak from a split tube stopped in a boiler at sea? Describe the operation.

52.

What is the use of dampers? Where are they fitted? When should they be used?

53.

When there are no dampers fitted, what is used instead? What evil to the boiler is sometimes attributed to this? When the heating surfaces are clean does this occur?

54.

Describe the piston of a steam cylinder, with its different rings and their uses. There are generally round pieces let in flush on one side of a piston: what are they? How are these pieces fixed?

55.

Cylinder drain cocks: what is their use? There is sometimes a valve upon each cock: what purpose does it serve?

56.

Cylinder escape valves: of what do they consist? How protected? How regulated? When are they most needed? To what danger do they expose the Engineer? What precaution is sometimes used to obviate this danger?

57.

What is a compound engine? What different kinds are there for screw steamers, in respect to the number and arrangement of their cranks and cylinders? What is a triple expansion engine?

58.

What is link motion? What are some of its advantages? In modern engines for the screw propeller when there is no link motion, what takes its place?

59.

What is a separate expansion valve? Why is it not fitted to all engines? What effect has an expansion valve upon the starting and upon the reversing of the engine?

60.

What arrangement is applied to reduce the friction of a slide valve? To what is the friction due?

61.

Describe a loose eccentric; how does it act? In what engines is the loose eccentric still employed?

62.

What is the travel of the eccentric rod? How is it measured on the eccentric? What is the travel of the slide valve when the link motion is in mid gear and the engine still moving?

63.

What are "double beat valves"? Why are they not generally used for safety valves? Are they ever used instead of the slide valve? What objections are there to their use?

64.

What is a circulating pump? Is it always worked by the main engine? Give an example from your last steamer of the three water temperatures generally noted by careful engineers.

65.

An air valve is sometimes fitted to a circulating reciprocating pump: what purpose does it serve?

66.

What is the difference between a bucket air-pump, a piston air-pump, and a plunger air-pump?

67.

Whether are double-acting air-pumps made with plungers, with pistons, or with buckets?

68.

What is an air-pump trunk? When is it necessary? How is it attached to the bucket?

69.

What class of air-pump requires both foot and delivery valves, and in what other class can either of these valves be in some cases dispensed with?

70.

When under way, when the air-pump bucket is at the top of its stroke, at what height is the water in the condenser?

71.

With a surface condenser and a single acting air-pump, what is the effect of a leaky foot valve, and what is the effect of a leaky bucket when there is also a foot valve?

72.

Air-pump pet cock or valve: where is it placed? How does it act? What is its object? Does it in every case reduce the effective capacity of the pump? Is it equally applicable to double acting pumps?

73.

At what temperature is the hot well worked? What is the effect of higher temperatures? What is the effect of lower temperatures? What limits the lowness of temperature? Has a very low temperature any disadvantages?

74.

Bilge injection with common condensers: what are the fittings required? When is it used? What precautions are necessary in using it?

75.

When surface condensers are used, what takes the place of the bilge injection? To what is the connection made? How is its valve formed? Why is this necessary?

76.

What are the practical guides to the proper amount of opening of the inlet valve for the circulating pump?

77.

Feed-pump pet cock or valve: where is it placed? What is its use? How does it act? Is it always a necessary fitting?

78.

What are some of the ways of fastening the ends of surface-condenser tubes? About what size and about what thickness are condenser tubes? What parts of a surface condenser are made of brass?

79.

What is a blow-through valve or cock? To what is it attached? There is sometimes a valve that when opened admits steam from the slide valve casing to the exhaust port: what is its use? To which cylinder is it fitted?

80.

What is a snifting valve? What is its use? Where is it placed? Can it be placed too high? Can it be placed too low? At what height should it be placed? Was there one in your last steamer; if so, where was it? Why are snifting valves generally omitted now?

81.

What connections are generally fitted to the donkey-pump, and to what services can it be applied?

82.

When the engines are stopped with steam up, what are to be shut and what are to be opened?

83.

How is an engine heated up before starting? What precautionary examinations are made before starting?

84.

What is an interceptor or catch-water? Where is it fixed; what is its construction; how does it act; and what attention does it require?

85.

Describe an air-pump bucket, with its valve or valves and its packing. Of what are the valves generally made?

86.

Of what materials are air-pump rods made? Why so?

87.

What is the racing of the engine? When does it occur? What danger attaches to it? What is done to prevent it?

88.

What are marine governors? What is their general construction? How do they act?

89.

What is meant by the "pitch" of a screw propeller? How is it measured?

90.

Explain the difference between a "right hand" and a "left hand" propeller, and state how each of them revolves.

91.

What is the slip of a screw propeller? How is its amount expressed in figures?

92.

Which of the valves about engines and boilers have to be worked by hand, which of them work self-actingly, and which are worked by the motion of the engine?

93.

Why is soda sometimes put into a boiler, and how is it put in which under way? What is the kind of soda used?

94.

Tallow cups for cylinders were sometimes made with two small cocks, or with only one small cock, or with one large hollow plug cock, or with one small cock and a valve; which of these is suitable for a high-pressure cylinder, and which for the cylinder of a condensing engine? Describe how the cup with only one small cock is used. What is now generally used instead of these? How has this change come about?

95.

Does a cylinder escape valve, self-acting, allow all the water to escape; if not, how much is left in the cylinder?

96.

What is a "Steam Lubricator" (sometimes called an Impermeator)? Explain its action; to what part of the engine is it connected; whether will throwing cold water over it make it work faster or slower? Describe the one used in your last steamer?

97.

A common paddle wheel: of what is the centre made? Of what are the arms formed? What is the form of the bolts which attach the floats to the arms? How are the arms attached to the centres?

98.

Why have some paddle wheels one or more cast-iron floats in each wheel? With what engines are these most required? At what part of the circumference are they placed?

99.

Why are paddle wheel floats sometimes made of different breadths in the same wheel? With what description of engine is this most needed? Where are the broad floats placed, and where are the narrow floats placed in the circumference of the wheel?

100.

What difference is there between a radial paddle wheel and one with feathering floats? What is the object of feathering floats? Are all the eccentric rods attached in the same way, and are they all of the same form?

101.

Whereabout is the centre of the eccentric of a paddle wheel with feathering floats placed? In that case are the feathering levers on the striking face or on the back of the float? When the paddle shaft has an outer bearing, how is the eccentric made?

102.

Of what materials are the working surfaces of a paddle wheel with feathering floats? Are they all lubricated? With what?

103.

What is a "Disconnecting Paddle Engine"? At what place is the disconnecting effected? How is it accomplished? In which of the cranks of a disconnecting engine are the crank pins fixed?

104.

Whether is link motion valve gear or the loose eccentric generally used for disconnecting paddle engines? For what steamers are disconnecting paddle engines frequently employed?

105.

What are expansion joints? Where are they necessary? What attention do they require? Of what should the working surfaces be made?

106.

What omission in the construction of expansion joints may lead to a serious accident when steam is first applied? How is this prevented in the construction of a steam trunion pipe for an oscillating engine?

107.

Describe an oil cup with a syphon worsted. How is the worsted arranged? How is it cleaned? How far down the tube does it extend?

108.

Describe a thrust bearing; which of the surfaces wears? Why are there sometimes a number of oil tubes for one thrust bearing?

109.

What parts of a screw shaft are generally covered with brass? Why is this necessary? About what thickness is the brass?

110.

What is the stern tube or screw shaft pipe? Why is a pipe of such a length required? Of what is it made? How is it fixed at each end?

111.

What is a lignum vitæ bearing? How is the wood fitted? Where is such a bearing generally used?

112.

How is a screw propeller fixed on the shaft? What means are used to prevent its getting loose at sea?

113.

Where are sluice valves placed? What large sluice valve is there in almost all screw steamers? From what position should this valve be worked? Why so? What attention should it receive?

114.

With a condensing engine; what valves or cocks are on the skin of the ship in the engine-room and in the stokehole?

115.

What are the necessary fittings of a marine boiler?

116.

With a surface condensing engine what cocks or valves are open some time before the engine is started so as to be ready for starting whenever the order is given?

117.

What is a steam jacket? What cocks are on it? In what engines are jackets most generally used? Do they require to be felted?

118.

What parts of an engine or its fittings should be felted or otherwise protected from radiation?

119.

What are the small cylinders sometimes fitted on the slide valve casing cover of vertical engines? Explain their action. To what are they connected by a pipe? Why so?

120.

Name the principal pipes in connection with the engines and boilers of a steamer, and state to what the ends of these pipes are connected.

121.

Through what cocks or valves, pipes and chambers does the water pass on its way from the sea inlet rose plate to the water space of the boiler, with a jet condenser?

122.

Through what cocks or valves, pipes and chambers does the circulating water of a surface condenser pass?

123.

Through what cocks or valves, pipes and chambers does the steam pass from the boiler until it is in the form of water in the hot well?

124.

Name the pieces of the engine through which the pressure of the steam is transmitted from the piston to the screw propeller. Name them in the order in which they act.

125.

What is an air vessel? How does it act? At what parts of an engine or of its fittings are air vessels generally applied?

126.

What is the construction of a mud box? Where should mud boxes be placed? Why are they necessary? How should the space be divided by the rose plate, and why?

127.

What is a trunk engine? When used in a horizontal engine for a right-hand screw propeller at which side of the vessel should the cylinders be placed? Why so?

128.

What is an oscillating engine? For what steamers are oscillating engines generally adopted? Why? How is the steam conveyed to and from the slide valve casing?

129.

Of what parts does the valve motion gear of an oscillating engine consist?

130.

For what have geared engines sometimes been used? Of what were the cogs of the large wheel made?

131.

At what part of a screw steamer is the pressure that propels it applied to the hull?

132.

At what part of a paddle steamer is the pressure that propels it applied to the hull?

133.

About how much fuel per indicated horse power per hour is required by modern steam engines, common, compound and triple expansion?

134.

What is the explanation of the economy of the surface condenser?

135.

What is the construction of a surface condenser? Of what are its tubes made? How are they fixed? How are they kept tight? What is done with a split tube?

136.

Where do surface condensers foul? How are they cleaned?

137.

What non-conducting substances are employed to prevent radiation, and how are they applied?

138.

In the construction of smoke-box doors and of dry uptakes, what provision is made to lessen the amount of radiation?

139.

How can the formation of black smoke be prevented? Describe smoke preventing apparatus.

140

What is meant by "circulation" in a boiler, and what are the results of defective circulation?

141.

What means are sometimes adopted to improve the circulation in a boiler?

142.

By what arrangement is the circulation promoted in a "hay-stack" boiler?

143.

Describe a ship's side air-pump discharge valve, in what respects does it sometimes differ from a common stop valve, and what attention does it require?

144.

What is the construction of a feed escape valve, to what is its discharge connected, and how is its loading regulated?

145.

When there is no feed escape valve, what is the arrangement of the feed valves or cocks?

146.

What is the measure of a horse-power? How is indicated horse power ascertained?

147.

Has "nominal horse power" a fixed meaning? What is the use of this expression? What is generally taken as the measure of one horse power nominal?

148.

What is "back pressure" in a cylinder? About how much is it in each of the cylinders in your last steamer? Is excessive cushioning ever a trouble under certain conditions in modern engines? Say when and why and in which cylinder this occurs.

149.

What is meant by "speed of piston"? About how much is the speed of piston in modern marine engines?

150.

What is "atmospheric pressure"? What is its average amount? What instrument tells this amount?

151.

What is "gross pressure" or "absolute pressure"? What pressure is it that is shown by the steam gauge?

152.

What is meant by "cutting off" steam? How is it done? What part of the valve regulates the cut off?

153.

What is a piston slide valve? Describe its construction. Why are such frequently employed in place of the common slide valve? What is a great drawback to the use of these valves?

154.

What fixes the time of closing the exhaust? After the exhaust is closed and before the port opens for steam, what becomes of the steam that is in the cylinder?

155.

What is the "lead" of the valve? What is its object? About what amount is it?

156.

What is the "cover" or "lap" of the valve? What is its object? About what proportion of the stroke of the valve is it made?

157.

What is the "exhaust cover" of a slide valve? What is its effect upon cushioning and upon exhaust?

158.

What is "minus cover" or "minus lap" on the exhaust? What is its effect upon the exhaust and upon cushioning?

159.

What is "cushioning" or "compression" in a steam cylinder? How is it affected by the amount of cover or of minus cover there may be upon the exhaust? How is it affected by the exhaust pressure?

160.

What is "mean effective pressure"? How is its amount ascertained?

161.

What is a dial vacuum gauge? What is its construction? For what is it used? About what amount should it show when the engine is working all right? What effect has the variations it indicates on the performance of the engine?

162.

Does the vacuum gauge enable you to tell what pressure there is in the condenser, or must you have recourse also to the barometer to arrive at that? How would you ascertain the actual amount of back pressure there is in the condenser?

163

What is a barometer? What is its construction? Is a barometer sometimes used instead of a vacuum gauge? In what respect does the weather barometer differ from the vacuum gauge barometer?

164.

The common vacuum gauge and the common steam gauge, in which of them are the graduations marked from atmospheric pressure? Does either of them tell what is the true actual pressure in the boiler or in the condenser?

165.

Do steam and vacuum gauges vary with the variations of the weather barometer? When the weather barometer varies from 29 to 31, how much will the vacuum gauge vary, and how will that affect the working of the engine? Why so?

166.

Vacuum is generally stated as so many inches. What is meant by, say, 20 inches vacuum? What does that tell us about the absolute pressure of the vapour then in the condenser?

167.

From what depth will a pump draw water? Is there any limit? Why?

168.

What is vacuum? Can vacuum move a piston? When the temperature of the water in the condenser is 212°, what is the greatest degree of vacuum there can then be in the condenser?

169.

What is a thermometer, its construction? What is the property of matter that is the principle of its construction? What temperatures are regularly noted by careful engineers?

170.

What is the temperature of (1) melting ice, (2) of boiling water, (3) of steam about 60 lbs. pressure by the steam gauge, (4) of steam about 100 lbs, and (5) of strain about 150 lbs, also (6) of smoke in the funnel, and (7) of water in the hot well?

171.

What is meant by the "conduction" of heat? Give examples of it in the boiler and in the engine.

172.

What is meant by the "convection" of heat? Give examples of it in the boiler and in the engine.

173.

What is meant by "radiation" of heat? Give examples of it in the boiler and in the engine.

174.

Which is convection, which is radiation, and which is conduction in the following cases: (1) Heat from the glowing fuel to the furnace crown. (2) Heat passing from one side of the furnace crown plate to the other. (3) Heat passing from the steam pipes in the engine-room. (4) The heat of evaporation?

175.

What are the effective heating surfaces of a marine boiler? What is an objection to vertical heating surfaces?

176.

What parts of a marine engine are exposed to danger when the temperature is below freezing point?

177.

What precautions are necessary in cold climates when the temperature is below freezing point ?

178.

State as many ways as you can by which a boiler might not get its full feed; that is, a boiler, or one of a set of boilers, get short of water, although the feed valve is open its proper amount; to what causes might this be due ?

179.

Of what are furnace bars generally made About what thickness are they at top ? About what space is between them ? Whether are the bars put further apart for Newcastle coal or for Welsh coal ?

180.

Which burns faster, Newcastle coal or Welsh coal ? Which is the flaming coal ? Which makes most smoke ?

181.

About how many tons of steam coal will be burnt per day in our furnaces, each 3′ 0″ wide, and of about the usual length ? On what grounds do you say so ?

182.

About how many tons of steam coal will be burnt per day with good compound engines to drive an ordinary steamer of 40 ft. beam 10 knots an hour by steam alone ? On what grounds do you say so ? What percentage more coal would be required to propel the same steamer one knot faster ?

183.

About how many tons of steam coal will be burnt per day with a good compound engine, surface condensers, the low pressure cylinder 70 inches diameter, doing average work ? On what grounds do you say so ?

184.

A pair of inverted cylinder direct acting engines, there is a liner half an inch thick between the ahead eccentric rod and the eccentric strap, in overhauling the engine this piece is lost and forgotten; what difference will its omission make in the working of the engine, on the admission, on the cut off, and on the exhaust of the steam ? Which will take place earlier, and which later, distinguishing between the up stroke and the down stroke ?

185.

A pair of inverted cylinder direct acting engines driving a right-hand screw; on which of the crosshead guide bars is the pressure greatest in the up stroke, and on which in the down stroke ?

186.

A screw propeller is getting loose, it has a little play on the shaft, sideways on the key or feather; how will this show in the engine-room ?

187.

How would you prove whether the centre line of the trunions of an oscillating cylinder be fair with the centre line of the main shaft ?

188.

How can the fairness of a line of screw shafting be tested without lifting the shafts ?

APPENDIX B.

TESTIMONIAL.

I hereby certify that has served with me in the engine-room of as principal serang or tindal for a period of , during which time he has discharged his duties to my entire satisfaction.

I consider that he fully understands the working of an engine, and has sufficient tact, presence of mind, and energy to look after and manage the working of the engines of a river steamer having engines not exceeding 80 nominal horse-power.

Date (*Signed.*)

No. and description of Certificate.

ANY Engineer giving a testimonial in this form should be very careful in doing so, as the document may materially influence the applicant's elligibility as a candidate.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINEER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been reported to the Lieutenant-Governor of Bengal that you have been found duly qualified to fulfil the duties of Engineer of an Inland Steam-Vessel, I do hereby, in pursuance of Act VI of* 1884, *grant you this CERTIFICATE OF COMPETENCY.*

Given *under my* Hand and Seal,

This _____ 18 ___.

By order of the Government of Bengal,

Under-Secy. to the Govt. of Bengal.

No. of Certificate of Competency

*Bearer*_____

*Date and Place of Birth*_____

*No. of Register Ticket*_____

*Signature*_____

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended, is liable to a penalty not exceeding Rs. 500.

N.B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Competency

AS

ENGINE-DRIVER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been reported to the Lieutenant-Governor of Bengal that you have been found duly qualified to fulfil the duties of Engine-Driver on an Inland Steam-Vessel having engines of under 80 nominal horse-power, I do hereby, in pursuance of Act VI of 1884, grant you this CERTIFICATE OF COMPETENCY as Engine-Driver.*

Given under my Hand and Seal

By order of the Government of Bengal,

This _____ *day of* _____ 18___.

Under-Secy. to the Govt. of Bengal.

No. of Certificate

*Bearer*_____ *son of*_____ *by caste*_____

Date and Place of Birth showing Village, Thana and District*_____

*Residence showing Village, Thana and District*_____

*Height*_____

*Personal description, stating particularly any permanent marks or scars*_____

*No. of Register Ticket*_____

*Signature*_____

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Any Engine-Driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence.

[REGISTERED No. 29.]

No. 11 of 1890.

The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

GENERAL.—*The 28th February* 1890.—Mr. R. W. Carlyle, Under-Secretary to the Government of Bengal, Judicial, Political and Appointment Departments, is appointed to act, until further orders, as Magistrate and Collector of Chittagong.

Mr. P. C. Lyon, Private Secretary to the Lieutenant-Governor of Bengal, is appointed to act as Under-Secretary to the Government of Bengal, Judicial, Political and Appointment Departments, during the absence, on deputation, of Mr. R. W. Carlyle, or until further orders.

The 4th March 1890.—Mr. W. H. H. Vincent, Officiating Joint-Magistrate and Deputy Collector, is appointed to act temporarily as Cantonment Magistrate of Dinapore and Judge of the Small Cause Court in that Cantonment, with effect from the 30th August 1889.

Mr. Vincent is also appointed temporarily to have charge of the Dinapore sub-division of the Patna district, with effect from the 30th August 1889.

The 5th March 1890.—Baboo Poorno Chunder Bysack, Temporary Deputy Magistrate and Deputy Collector, Culna, Burdwan, is allowed leave for one month, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Baboo Kedar Nath Dutt, Deputy Magistrate and Deputy Collector, Burdwan, is appointed temporarily to have charge of the Culna sub-division of that district, during the absence, on leave, of Baboo Poorno Chunder Bysack, or until further orders.

The 6th March 1890.—Baboo Shama Churn Dutt, Sub-Deputy Collector, Contai, Midnapore, is allowed leave for one and a half months, under article 291 of the Civil Service Regulations in extension of the leave granted to him under the order of the 12th December 1889.

Mr. F. C. Barnes, Superintendent of Stamps and Stationery, Calcutta, has been granted by Her Majesty's Secretary of State for India an extension of furlough for six months on medical certificate.

The 7th March 1890.—The following officers are vested with the powers of a Collector under Act X of 1870 in the district of Rungpore :—

Baboo Koylash Gobinda Das, Officiating Deputy Magistrate and Deputy Collector, Rungpore.

Baboo Toolsi Das Mookherjee, Deputy Magistrate and Deputy Collector, Nelphamari, Rungpore.

Baboo Gunga Narain Roy, Deputy Magistrate and Deputy Collector Gyebanda, Rungpore.

Lieutenant C. C. Collingwood, Calcutta Naval Volunteers, is allowed leave of absence for two years, with effect from the date on which he may avail himself of it.

The 8th March 1890.—The services of Mr. C. J. O'Donnell, Officiating Magistrate and Collector, Jessore, are placed at the disposal of the Financial Department of this Government, with effect from the 1st proximo.

Mr. E. B. Harris, Joint-Magistrate and Deputy Collector, Mozufferpore, is appointed to act, until further orders, as Magistrate and Collector of Jessore.

Mr. W. R. Bright, Temporary Joint-Magistrate and Deputy Collector, on furlough, is appointed to act, until further orders, as Deputy Commissioner of the Sonthal Pergunnahs.

Mr. D. Cameron, Joint-Magistrate and Deputy Collector, Dacca, is appointed to act as District and Sessions Judge of that district, during the absence, on furlough, of Mr. T. D. Beighton, or until further orders.

This cancels the order of the 18th February 1890, appointing Mr. A. E. Staley, Joint-Magistrate and Deputy Collector, 24-Pergunnahs, to act as District and Sessions Judge of Dacca.

In modification of the order, dated the 24th January 1890, Baboo Ram Churn Lall, Deputy Magistrate and Deputy Collector, Mozufferpore, is transferred temporarily to the Sudder station of the district of Gya.

The 10th March 1890.—Baboo Gunga Nath Roy, Deputy Magistrate and Deputy Collector, Chandpore, Tipperah, is transferred to the Sudder station of the district of Chittagong.

Captain J. W. Currie, *Aide-de-Camp* on the personal staff of the Lieutenant-Governor of Bengal, is appointed to act as Private Secretary to the Lieutenant-Governor of Bengal during the absence, on deputation, of Mr. P. C. Lyon, or until further orders.

Lieutenant C. E. Greenway, Extra *Aide-de-Camp* on the personal staff of the Lieutenant-Governor of Bengal, is appointed to act as *Aide-de-Camp* on the personal staff of the Lieutenant-Governor of Bengal during the absence, on deputation, of Captain J. W. Currie, or until further orders.

The 11th March 1890.—Mr. G. Toynbee, Magistrate and Collector, Hooghly, on deputation, is appointed to act, until further orders, as Commissioner of the Burdwan Division.

Baboo Mohendro Chunder Mozoomdar, Deputy Magistrate and Deputy Collector, Furreedpore, is transferred to the Sudder station of the district of Dacca.

Mr. F. J. Marsden, Chief Presidency Magistrate, Calcutta, and Judge of the Court for the trial of Pilots, is allowed furlough for one year, under article 871 of the Civil Service Regulations, with effect from the 25th instant.

Mr. A. P. Handley, Barrister-at-Law, is appointed to act as Chief Presidency Magistrate, Calcutta, and Judge of the Court for the trial of Pilots, during the absence, on furlough, of Mr. F. J. Marsden, or until further orders.

Baboo Chunder Nath Bose, *substantive pro tempore* Bengali Translator to Government, is confirmed in that appointment.

MEDICAL.—*The 6th March* 1890.—The services of Brigade-Surgeon J. G. Pilcher, Officiating Civil Surgeon, Howrah, are placed at the disposal of the Government of India in the Home Department.

VACCINATION.—*The 7th March* 1890.—Assistant Surgeon Bejoy Kumar Chuckerbutty, Deputy Superintendent of Vaccination, Behar Circle, has been appointed to act as Superintendent of Vaccination, Orissa Circle, during the absence, on furlough, of Assistant Apothecary P. Veeriah Naidu, or until further orders.

Assistant Surgeon Nitya Prosad Bhattacharjee has been appointed to act as Deputy Superintendent of Vaccination, Behar Circle, in place of second grade Assistant Surgeon Bejoy Kumar Chuckerbutty.

The following notification is republished from the *Assam Gazette* :—

No. 1491*G.*—*The 28th February* 1890.—Mr. A. W. Davis, C.S., Assistant Commissioner, is placed in charge of the Mokokchung sub-division in the Nága Hills district.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 4th March 1890.—It is hereby notified for general information that the First Half-yearly Departmental Examination of 1890 of Assistant and Deputy Magistrates in the Regulation and Non-Regulation Districts, and of Officers in the Police, Medical, and Forest Departments, will be held on Monday, the 21st April next, and the following days.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th March 1890.—The following gentlemen, who have been declared eligible for appointment as Deputy Magistrates and Deputy Collectors during the year 1890, under the provisions of paragraph 14 of the Resolution dated the 24th April 1889, regarding appointments to the Subordinate Executive Service, are attached as Probationers to the districts mentioned opposite their names :—

Moulvie Mahomed Abbas Ali, M.A.	...	...	Khulna.
Baboo Bissessur Bhattacharjee, B.A.	...	...	Faridpur.
Baboo Promotho Nath Dutt, B.A.	...	...	Jessore.
Moulvie Syed Ali Hossein, B A.	...	...	Patna.
Baboo Brojo Durlab Hazra, B A.	...	...	Bankura.
Baboo Nobin Chunder Ker, B.A.	...	...	24-Pergunnahs.

They will be employed on any general duties tending to qualify them for the public service, and during the time of their probationary period will receive each Rs. 50 a month as subsistence allowance. They will have no official status, and will be vested with no criminal or revenue powers, but many ways of utilising their services will no doubt suggest themselves to Commissioners and District Officers. The main object to be kept in view should be to afford them an opportunity of acquiring as much experience as possible of a practical and useful character.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th March, 1890.—The Lieutenant-Governor directs, under section 101 of the Bengal Tenancy Act, VIII of 1885, that a survey be made and a record of rights prepared in respect of all lands included within the boundaries of the Government estate Hissa 9 annas, pergunnah Maizardi, towji No. 1973, in the district of Tipperah.

The particulars to be recorded in the survey and record of rights shall be the following :—

The name of each proprietor with the character and extent of his interest.

The situation, quantity, and boundaries of proprietors' private lands as defined in Chapter XI of the Act.

The name of each tenant.

The class to which he belongs, that is to say, whether he is a tenure-holder, ryot holding at fixed rates, occupancy ryot, non-occupancy ryot or under-ryot, and if he is a tenure-holder, whether he is a permanent tenure-holder or not, and whether his rent is liable to enhancement during the continuance of his tenure.

The situation, quantity, and boundaries of the land held by him.

The name of his landlord.

The rent payable.

The mode in which the rent has been fixed, whether by contract, by order of a Court or otherwise. If the rent is a gradually increasing rent, the time at which and the steps by which it increases.

The special conditions and incidents, if any, of the tenancy.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

UNDER the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process having been established at Burdwan, in the district of Burdwan, it is hereby notified that from and after the 1st April 1890, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sadar distillery, or stored in any depôt set up under the authority of the said Board of Revenue, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.—The Sonthal Pergunnahs, and Birbhum and Murshidabad districts.

Western boundary.—Manbhum district.

Southern boundary.—Hugli, Midnapur, and Bankura districts.

Eastern boundary.—Nuddea district, the boundary line for nearly the whole distance being formed by the Bhagirathi or Hugli river.

H. F. MAGUIRE,
Offg. Collector.

BURDWAN COLLECTORATE, *the 25th February* 1890.

NOTIFICATION.

UNDER the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Krishnaghur, in the district of Nuddea, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sadar distillery, shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.—District limits of Pabna, Rajshahye, and Murshidabad.
Western boundary.—District limits of Murshidabad, Burdwan and Hugli.
Southern boundary.—District limits of 24-Pergunnahs and Jessore.
Eastern boundary.—District limits of Faridpur and Jessore.

E. G. GLAZIER,
The 8th March 1890. *Collector.*

NOTIFICATION.

UNDER the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Berhampur, in the district of Murshidabad, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the whole district of Murshidabad, consisting of 24 thanahs, viz.—Gora Bazar, Sujaganj, Burwa, Hariharpara, Noada, Jeliughi, Goas, Daulat Bazar, Shahanagar, Manulla Bazar, Asanpur, Sagardighi, Bhagwangola, Kalyanganj, Kandi, Khargram, Barwan, Bharatpur, Gokarn, Raghunathganj, Mirzapur, Suti, Shamsherganj and Dewansarai, no such liquors, unless manufactured at the said Sadar distillery, shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

The district is bounded as follows :
Northern boundary.—The Sonthal Pergunnahs districts and the districts of Maldah and Rajshahye.
Western boundary.—The district of Birbhum and the Sonthal Pergunnahs districts.
Southern boundary.—The district of Burdwan.
Eastern boundary.—The districts of Nuddea and Rajshahye.

J. G. RITCHIE,
DATED BERHAMPUR, *the 26th February* 1890. *Offg. Collector of Murshidabad.*

NOTIFICATION.

UNDER the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Soory, in the district of Birbhum, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sudder distillery, shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.— } Southern and eastern boundary of the district of Sonthal Per-
Western boundary.— } gunnahs.
Southern boundary.—Northern and western boundary of Burdwan district.
Eastern boundary.—Western boundary of Murshidabad district.

T. J. C. GRANT,
The 8th March 1890. *Collector.*

JUDICIAL DEPARTMENT.

The 7th March 1890.—Baboo Radha Binode Bose is appointed to be an Honorary Magistrate of the Independent Bench at Cuttack, and is vested with the powers of a Magistrate of the third class.

The Lieutenant-Governor accepts the resignation tendered by the undermentioned gentlemen of their appointment of Honorary Magistrate of the Bench at Sealdah, in the district of the 24-Pergunnahs—

Baboo Shumbhu Nath Roy.	Baboo Debendro Chunder Ghose.
,, Troyluckho Nath Biswas.	,, Nundo Coomar Chowdhry.

The 10th March 1890.—Baboo Koylas Chunder Sen, B.L., is appointed to act as a Munsif in the district of Mymensingh, to be ordinarily stationed at Iswargunge, during the absence, on deputation, of Baboo Kisori Mohun Sikdar, or until further orders.

GRANT OF LEAVE TO MUNSIFS.—*The 4th March* 1890.—Baboo Russick Chundra Roy, Sudder Munsif of Mymensingh, is allowed leave for three months, under article 369 of the Civil Service Regulations, with effect from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 10th March 1890.—Under the provisions of section 5 of the Indian Registration Act, III of 1877, the Lieutenant-Governor sanctions the formation of a new registration sub-district conterminous with thana Assensole, with head-quarters at Assensole, in the sub-division of Ranigunge, in the district of Burdwan. The registration sub-district of Ranigunge will henceforth be restricted to thanas Ranigunge and Kaksa.

The Lieutenant-Governor also sanctions the appointment, on probation for six months, of Baboo Janakinath Mukerjee to be Rural Sub-Registrar of Assensole.

The above arrangements will take effect on and from the 1st April 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th March 1890.—The following notification, issued by the Government of India, Home Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

No. 248, dated Calcutta, the 27th February 1890.

NOTIFICATION—By the Government of India, Home Department.

THE following Order of Her Majesty in Council, dated the 13th December 1889, is published for general information:—

AT THE COURT AT WINDSOR.

The 13th day of December 1889.

PRESENT:

THE QUEEN'S MOST EXCELLENT MAJESTY.

LORD PRESIDENT. | LORD MORRIS.
EARL OF COVENTRY. | SIR WILLIAM HART DYKE, BART.

MR. RITCHIE.

HER MAJESTY, by virtue and in exercise of the powers in this behalf vested in Her by the Colonial Prisoners' Removal Act, 1884, is pleased, by and with the advice of Her Privy Council, to order, and it is hereby ordered, as follows:

The following Regulations are hereby made as to the removal and return of prisoners and criminal lunatics under the said Act:

1. Every prisoner removed under the said Act from a British Possession to the United Kingdom for the purpose of undergoing the residue of a sentence involving confinement in a prison combined with hard labour shall, in the United Kingdom, be dealt with as follows, that is to say—

   If the original period of his sentence did not exceed two years, in the same manner as if he had been sentenced in the United Kingdom to imprisonment with hard labour for the same period:

   And if the original period of his sentence exceeded two years, in the same manner, as nearly as may be, as if he had been sentenced in the United Kingdom to penal servitude for the same period.

2. Every prisoner removed under the said Act from one British Possession to another British Possession for the purpose of undergoing the residue of a sentence shall in such last-mentioned British Possession be dealt with in the same manner as if he had there been sentenced to such punishment authorized by the law thereof as in the opinion of the Secretary of State signing the order of removal shall most nearly correspond to the punishment to which he was sentenced in the first-mentioned British Possession, and for the same period.

3. The forms in this Schedule to this order or forms to the like effect varied as circumstances may require may be used under the said Act.

C. L. PEEL.

SCHEDULE referred to in the foregoing Order in Council.

I.—ORDER OF REMOVAL.

COLONIAL PRISONERS REMOVAL ACT, 1884.

WHEREAS *A.B.* was on the day of
convicted before the Court of of the crime [*or*
offence] of , and sentenced to penal servitude [*or* imprisonment,
or, as the case may be,] for the term of years [*or* for life], and is
now undergoing the said sentence in the Colony [*or* Presidency, *or*]
of

And whereas it is likely that the life [*or* health] of the said *A.B.* will be endangered [*or* permanently injured] by further imprisonment in the said Colony [*or* Presidency, *or*].

[*Or* the said *A.B.* belonged at the time of committing the said offence to the Royal Navy (*or* to Her Majesty's regular Military forces)].

[*Or* the said offence was committed wholly (*or* partly) beyond the limits of the said Colony, *or* Presidency, *or*].

[*Or* by reason of there being no prison in the *said Colony* [*or* Presidency, *or*) in which the said *A.B.* can properly undergo his sentence (*or, for other reasons to be stated*) the removal of the said *A.B.* is expedient for his safe custody (*or* for more efficiently carrying his sentence into effect)].

[*Or* the said *A B.* belongs to a class of persons who under the law of the said Colony (*or* Presidency, *or*) are subject to removal under the Colonial Prisoners' Removal Act, 1884].

Now I do hereby in pursuance of the Colonial Prisoners' Removal Act, 1884, with the concurrence of the Government of the said Colony [*or* Presidency, *or*] [and the Government of the Colony (*or* Presidency, *or*) of], order that the said *A B* be removed to the United Kingdom [*or* to the Colony (*or* Presidency, *or*) of] there to undergo the residue of his said sentence [with such variations of the conditions thereof as are or shall be provided by any regulations in force for the time being under the said Act] in accordance with the said Act.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State, this day of 18 .

I, , the Governor [*or* Lieutenant-Governor, *or* the Officer Administering the Government] of the Colony [*or* Presidency, *or*] of , with the advice of the Executive Council of the said Colony [*or* Presidency, *or*].

[And I, , the Governor [*or* Lieutenant-Governor, *or* Officer Administering the Government] of the Colony [*or* Presidency, *or*] of , with the advice of the Executive Council of the said Colony [*or* Presidency, *or*], hereby concur in the foregoing order of removal].

As witness my hand [our hands] this day of 18 .

II.—ORDER FOR THE RETURN OF A PRISONER TO A BRITISH POSSESSION.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

WHEREAS *A.B.* was on the day of convicted before the Court of of the crime [*or* offence] of , and sentenced to penal servitude [*or* imprisonment, *or, as the case may be,*] for the term of years [*or* for life].

And whereas the said *A.B.* has been removed, under the Colonial Prisoners' Removal Act, 1884, from the Colony [*or* Presidency, *or*] of to , and is now undergoing the said sentence in the United Kingdom [*or* the Colony (*or* Presidency, *or*) of].

Now I, [with the advice of the Executive Council of the said Colony (*or* Presidency, *or*) of] hereby, in pursuance of the said Act, order that the said *A.B.* shall be returned to the said Colony [*or* Presidency, *or*] of , there to undergo the residue [*or* for the purpose of being their discharged at the expiration] of his said sentence.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* Governor (*or* Lieutenant-Governor, *or* Officer Administering the Government) of the Colony (*or* Presidency, *or*) of] this day of 18 .

III.—WARRANT FOR REMOVAL OF A PRISONER.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

To *C.D.*, the keeper of the Prison, and to *E.F.* and *G H.*

WHEREAS an order has been made, under the Colonial Prisoners' Removal Act, 1884, by one of Her Majesty's Principal Secretaries of State, with the concurrence of the Government of the Colony [*or* Presidency, *or*] of [and the Government of the Colony (*or* Presidency, *or*) of], for the removal of *A.B.*, a prisoner now in the custody of you, the said *C.D.*, under a sentence of penal servitude [*or* imprisonment, *or, as the case may be,*] for the term of years from the day of [*or* for life], to the United Kingdom [*or* to the Colony (*or* Presidency, *or*) of] there to undergo the residue of the said sentence.

Now I dó hereby, in pursuance of the said Act, order you, the said *C.D.*, to deliver the body of the said *A.B.* into the custody of the said *E.F.* and *G.H.*, or one of them; and I do hereby, in further pursuance of the said Act, authorise you, the said *E.F.* and *G.H.*, or either of you, to receive the said *A.B.* into your custody, and to convey him to the United Kingdom [*or* to the Colony (*or* Presidency, *or*) of], and to deliver him to such person or persons as shall be empowered by one of Her Majesty's Principal Secretaries of State [*or* of the Governor of the said Colony (*or* Presidency, *or*)] to receive him for the purpose of giving effect to the said order of removal.

And for so doing this shall be your warrant.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* Governor of], this day of 18 .

IV.—WARRANT FOR RETURN OF A PRISONER TO A BRITISH POSSESSION.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

To *C.D.*, the Governor [*or*] of the Prison, and to *E.F.* and *G.H.*

WHEREAS *A.B.*, having been sentenced by the Court of to penal servitude [*or* imprisonment, *or, as the case may be,*] for the term of years from the day of [*or* for life] has under an order duly made under the Colonial Prisoners' Removal Act, 1884, been removed to the United Kingdom [*or* to the Colony (*or* Presidency, *or*) of], and is now in the custody of you the said *C.D.*, undergoing his said sentence.

And whereas an order has been made under the said Act by one of Her Majesty's Principal Secretaries of State [*or* by the Government of the said Colony (*or* Presidency, *or*) of], for the return of the said *A.B.* to the said Colony [*or* Presidency, *or*] of there to undergo the residue [*or* for the purpose of being there discharged at the expiration] of his said sentence.

Now I do hereby, in pursuance of the said Act, order you, the said *C.D.*, to deliver the body of the said *A.B.* into the custody of the said *E.F.* and *G.H*, or one of them; and I do hereby, in further pursuance of the said Act, authorise you, the said *E.F.* and *G.H.*, or either of you, to receive the said *A.B.* into your custody, and to convey him to the Colony [*or* Presidency, *or*] of , and to deliver him to such person or persons as shall be empowered by the Governor of the said Colony [*or* Presidency, *or*] to receive him for the purpose of giving effect to the said order of return.

And for so doing this shall be your warrant.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* Governor of], this day of 18 .

V.—ORDER OF REMOVAL OF A CRIMINAL LUNATIC.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

WHEREAS *A.B.* is in custody in the Colony [*or* Presidency, *or*] of as a criminal lunatic having been charged with the offence of , and found to have been insane at the time of such offence [*or* to be unfit on the ground of insanity to be tried for such offence] [*or* having been convicted of the offence of (and sentenced to penal servitude (*or* imprisonment, *or*) for the term of years from the day of 18 (*or* for life)), and afterwards certified (*or* lawfully proved) to be insane].

And whereas it is likely that the life [*or* health] of the said *A.B.* will be endangered [*or* permanently injured] by further detention in custody in the said Colony (*or* Presidency, *or*].

[*Or* the said *A.B.* belonged at the time of the said offence to the Royal Navy (*or* to Her Majesty's regular military forces)].

[*Or* the said offence was committed wholly (*or* partly) beyond the limits of the said Colony (*or* Presidency, *or*)].

[*Or* by reason of there being no asylum in the said Colony (*or* Presidency, *or*) in which the said *A.B.* can be properly or conveniently detained and dealt with as a criminal lunatic, his removal to the United Kingdom (*or* to the Colony (*or* Presidency, *or*) of) is expedient.]

[*Or* the said *A.B.* belongs to a class of persons who, under the law of the said Colony (*or* Presidency, *or*) are subject to removal under the Colonial Prisoners' Removal Act, 1884.]

Now I do hereby, in pursuance of the Colonial Prisoners' Removal Act, 1884, with the concurrence of the Government of the said Colony [*or* Presidency, *or*] [and the Government of the Colony (*or* Presidency, *or*) of] order that the said *A.B.* be removed to the United

Kingdom [*or* to the Colony (*or* Presidency, *or*) of] there to be detained in custody as a criminal lunatic, and dealt with in the same manner as if he had there become a criminal lunatic.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State, this day of 18 .

I, , the Governor [*or* Lieutenant-Governor, *or* Officer Administering the Government] of the Colony [*or* Presidency, *or*] of , with the advice of the Executive Council of the said Colony [*or* Presidency, *or*]

And I Governor [*or* Lieutenant-Governor, *or* Officer Administering the Government] of the Colony [*or* Presidency, *or*] of , with the advice of the Executive Council of the said Colony [*or* Presidency, *or*] hereby concur in the foregoing order of removal.

As witness my hand [our hands] this day of 18 .

VI.—ORDER FOR THE RETURN OF A CRIMINAL LUNATIC TO A BRITISH POSSESSION.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

WHEREAS *A.B.* having been in custody in the Colony [*or* Presidency, *or*] of as a criminal lunatic, has been removed, under the Colonial Prisoners' Removal Act, 1884, to, and is now in custody as a criminal lunatic in, the United Kingdom [*or* the Colony (*or* Presidency, *or*) of],

[And whereas I [*or* the Government of the said Colony (*or* Presidency, *or*) of] consider that the said *A.B.* has become sufficiently sane to be tried for the offence with which he was charged in the said Colony (*or* Presidency, *or*) of].

Now I [with the advice of the Executive Council of the said Colony (*or* Presidency, *or*) *or*], hereby, in pursuance of the said Act, order that the said *A.B.* be returned to the said Colony (*or* Presidency, *or*) of , there to be dealt with in the same manner as if he had not been removed therefrom.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* the Governor (*or* Lieutenant-Governor, *or* Officer Administering the Government), of the Colony [*or* Presidency, *or*] of], this day of 18 .

VII.—WARRANT FOR REMOVAL OF A CRIMINAL LUNATIC.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

To *C.D.*, the keeper of Lunatic Asylum, and to *E.F.* and *G.H.*

WHEREAS an order has been made, under the Colonial Prisoners' Removal Act, 1884, by one of Her Majesty's Principal Secretaries of State, with the concurrence of the Government of the Colony [*or* Presidency, *or*] of [and the Government of the Colony (*or* Presidency, *or*) of], for the removal of *A.B.*, a criminal lunatic now in the custody of you, the said *C.D.*, to the United Kingdom [*or* the Colony (*or* Presidency, *or*) of], to be there dealt with in the same manner as if he had become a criminal lunatic in the United Kingdom [*or* the said Colony (*or* Presidency, *or*) of].

Now I do hereby, in pursuance of the said Act, order you, the said *C.D.*, to deliver the body of the said *A.B.* into the custody of the said *E.F.* and *G.H.*, or one of them; and I do hereby, in further pursuance of the said Act, authorise you, the said *E.F.* and *G.H.*, or either of you, to receive the said *A.B.* into your custody, and to convey him to the United Kingdom [*or* to the Colony (*or* Presidency, *or*) of], and to deliver him to such person or persons as shall be empowered by one of Her Majesty's Principal Secretaries of State [*or* the Governor of the said Colony (*or* Presidency, *or*)] to receive him for the purpose of giving effect to the said order of removal.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* the Governor of], this day of 18 .

VIII.—WARRANT FOR RETURN OF A CRIMINAL LUNATIC TO A BRITISH POSSESSION.

COLONIAL PRISONERS' REMOVAL ACT, 1884.

To *C.D.*, the of the Lunatic Asylum and to *E.F.* and *G.H.*

Whereas *A.B.*, having been in custody as a criminal lunatic in the Colony [*or* Presidency, *or*] of has under an order duly made under the Colonial Prisoners' Removal Act, 1884, been removed to the United Kingdom

[*or* to the Colony (*or* Presidency, *or*) of]
and is now in the custody of you the said *C.D.* as a criminal lunatic.

And whereas an order has been made under the said Act by one of Her Majesty's, Principal Secretaries of State [*or* by the Government of the said Colony (*or* Presidency, *or*) of] for the return of the said *A.B.* to the said Colony [*or* Presidency, *or*] of

Now I do hereby, in pursuance of the said Act, order you, the said *C.D.*, to deliver the body of the said *A.B* into the custody of the said *E.F.* and *G.H.*, or one of them; and I do hereby, in further pursuance of the said Act, authorise you, the said *E.F.* and *G.H.*, or either of you, to receive the said *A B.* into your custody, and to convey him to the Colony [*or* Presidency, *or*] of and to deliver him to such person or persons as shall be empowered by the Governor of the said Colony [*or* Presidency, *or*] to receive him for the purpose of giving effect to the said order of return.

And for so doing this shall be your warrant.

Given under the hand of the undersigned, one of Her Majesty's Principal Secretaries of State [*or* Governor of], this day of 18 .

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 10th March 1890.

No. 84.—Mr. H. Joll, Superintending Engineer, Western Circle, is granted furlough for eight months, with effect from the 20th instant, or such subsequent date as he may avail himself of it.

No. 85.—Mr. W. Connan, Inspector of Local Works in the Presidency and Rajshahye Divisions, is appointed to act as Superintending Engineer of the Western Circle, during the absence of Mr. Joll, or until further orders.

No. 86.—Mr. O. Hœrnle, Executive Engineer, Second Calcutta Division, is appointed to act as Inspector of Local Works in the Presidency and Rajshahye Divisions, during the absence, on deputation, of Mr. Connan, or until further orders.

No. 87.—Mr. C. A. White, Executive Engineer, attached to the Gunduck Division, is appointed to act as Executive Engineer, Second Calcutta Division, during the absence, on deputation, of Mr. O. Hœrnle, or until further orders.

No. 88.—Major A. D. McArthur, R.E, Officiating Superintending Engineer, South-Western Circle, is granted privilege leave for two months and fifteen days, with effect from the 1st April 1890, or such subsequent date as he may avail himself of it.

No. 89.—Mr. W. H. King, Officiating Inspector of Local Works in the Patna Division, is appointed to act as Superintending Engineer of the South-Western Circle, during the absence, on privilege leave, of Major A. D. McArthur, R.E.

No. 90.—Mr. R. B. Buckley, Officiating Superintending Engineer of the Sone Circle, is appointed to act, in addition to his own duties, as Inspector of Local Works in the Patna Division, during Mr. King's absence on deputation.

No. 91.—Referring to Notification No. 68 of the 4th instant, Mr. O. C. Lees is appointed to be Executive Engineer of the Gunduck Division, *vice* Mr. Norman, who is proceeding on leave.

The 11th March 1890.

No. 92.—The following notifications by the Government of India, Public Works Department, are republished for information:—

No. 99, *dated the 1st March* 1890.—"With reference to Public Works Department Notification No. 75, dated 12th February 1890, Mr. W. E. Curry, Deputy Examiner of Accounts, attached to the Office of the Examiner of Public Works Accounts, Bengal, is transferred to the Office of the Examiner of Public Works Accounts, Burma."

No. 108, *dated the 7th March* 1890.—"The Governor-General in Council is pleased to order the following promotions to and in the classes of Chief and Superintending Engineers with effect from the dates specified:—

NAMES.	From	To	Nature of promotion.	With effect from
* * * *	* * * *	* * *	* *	* *
Hughes, A. J. ...	Superintending Engineer, 2nd class, *sub. pro tem.*	Superintending Engineer, 2nd class.	Permanent ...	10th Dec. 1889.
* * * *	* * * *	* * *	* *	* *
Odling, C. W. ...	Superintending Engineer, 3rd class.	Superintending Engineer, 2nd class.	*Sub. pro tem.*	17th Dec. 1889.
* * * *	* * * *	* * *	* *	* *
McNeile, Col., J. M., R.E.	Chief Engineer, 2nd class	Chief Engineer, 1st class.	*Sub. pro tem.*	30th Dec. 1889.
* * * *	* * * *	* * *	* *	* *

"The promotions of officers from 30th December 1889, as notified in Public Works Department Notification No. 20, dated the 13th January 1890, are hereby superseded."

No. 93 —*Promotion.*—The Lieutenant-Governor is pleased to make the following promotion in the Engineer Establishment with effect from the date specified :—

Name.	From	To	With effect from	Nature of promotion.
Mr. T. Butler ...	Executive Engineer, 4th grade (temporary rank).	Executive Engineer, 4th grade.	3rd March 1890 ...	*Sub. pro tem.*

J M MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

IRRIGATION.

The 11th March 1890.

No. 94.—*Notification.*—It is hereby notified that the Bhangore khall on the Eastern Canals, which was closed from the 28th January 1890 on account of silt clearance, will be re-opened to traffic on the 16th March 1890.

W. B. BESTIC,
Under-Secy. to the Govt. of Bengal, P. W. Dept.

ESTABLISHMENT.

The 10th March 1890.

No. 83.—Mr. M. H. Jackson, Executive Engineer attached to the Second Calcutta Division, is granted privilege leave for three months, with effect from the 20th instant, or such subsequent date as he may avail himself of it.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

NOTIFICATION No 59Mne.

The 5th March 1890.—The Lieutenant-Governor is pleased to appoint the gentleman named below to be a member of the Committee appointed under Resolution No. 461Marine of the 18th February 1890, published in the Supplement to the *Calcutta Gazette* of the 19th ultimo, to consider and advise on the arrangements that should be adopted on the opening of the Kidderpore Docks—

Baboo Juggernath Khunnah ... ... Representing the Bengal National Chamber of Commerce.

E. J. MARTIN,
Joint-Secy. to the Govt. of Bengal, P. W. Dept.

NOTIFICATION No. 61Mne.

The 11th March 1890.—It is hereby notified that, under sections 5 and 10 of Act III (B.C.) of 1887, the following gentlemen have been elected by the members of the Bengal Chamber of Commerce to be Commissioners for making Improvements in the Port of Calcutta :—

The Hon'ble Sir A. Wilson, Kt., re-elected.
Mr. W. J. M. McCaw, *vice* Mr. J. Stevenson.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

[First Publication.]

NOTIFICATION No. 60Mne.

The 11th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 31).

INDIA—SOUTH.

CEYLON—SOUTH-WEST AND SOUTH COASTS.

Flashing light on Barberyn island—Delay in exhibition.

WITH reference to Notice to Mariners No. 97, dated 14th October last, issued by this Office, the British Admiralty has given notice (No. 73 of 1890) that further information has

been received through the Board of Trade, that owing to unavoidable delay, the light has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every minute*, elevated 150 feet above the sea.

Position, lat. 6° 27¾′ N.; long 79° 57¾′ E.

Flashing light on Dondra head—Delay in exhibition.

That this light also has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every twenty seconds*, elevated 150 feet above the sea.

Approximate position, lat. 5° 55½′ N.; long. 80° 35½′ E.

By direction of the Government of Bengal,

EATON. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th March* 1890.

[Second Publication.]

NOTIFICATION No. 52Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 25).

INDIA—SOUTH.

CEYLON—SOUTH COAST.

Unsuccessful search for shoal ground south-westward of Great Basses.

THE following Notice to Mariners (No. 42 of 1890) issued by the British Admiralty is republished :—

Information having been received from Lieutenant A. Channer, R.N, that during the strength of the S.-W. monsoon in 1889 the light-keeper at Great Basses had reported that he saw the sea break about 6 miles distant, on a S.-W. or S.-W. by W. bearing, from Great Basses light-house, south coast of Ceylon; also that the Master of the steam-vessel *Clan Drummond* had reported that in the S.-W. monsoon of 1888 he had seen the sea break near that position, or about where a depth of 14 fathoms is marked on the Admiralty Chart.

An examination of the locality has been made by Commander R. F. Hoskyn, R.N., in charge of the Marine Survey of India, in I G.S.S. *Investigator*, with the following result :—

Depths of 29 to 31 fathoms were obtained between the bearings of S.-W. ½ S. and S.-W. by W., and distances of from 4 to 8 miles, from Great Basses light-house. No indications of shoal water were found, the bottom being mostly sand or coral; but enough soundings were not taken to disprove the possible existence of a rock. The whole of that neighbourhood is covered with swirls and eddies, caused apparently by the current sweeping past Great Basses, and Commander Hoskyn has no doubt that in a moderate breeze the sea would break in many places.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 53Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 26).

AUSTRALIA—NORTH COAST.

BATHURST ISLAND—WEST COAST.

Sunken rock westward of Cape Helvetius.

THE British Admiralty has given notice (No. 43 of 1890) of the existence of a sunken rock off Cape Helvetius, west coast of Bathurst island, on which the schooner *Wanganui* recently struck :—

The position given for the rock (*Wanganui rock*) is with Cape Helvetius bearing E. by S. distant 3 miles. The depth on the rock is probably less than 6 feet. As the distance of this rock from the land depends upon estimation, its position is very doubtful.

Position, approximate, lat. 11° 40′ S.; long 129° 56′ E.

NOTE.—The attention of Mariners is directed to the cautionary Note on the Chart in this neighbourhood, and they are recommended not to approach the coast between Cape Fourcroy and Cape Helvetius within a distance of 8 miles, until further examination shall have been made.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 54Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 27).

RED SEA—WESTERN SHORE.

MUSAWWA CHANNEL NORTH.

Fixed light on Dïfneïn Island.

THE British Admiralty has given notice (No. 49 of 1890) that on 26th December 1889, a light was exhibited from a light-house recently erected on the north-east point of Dïfneïn island:—

The light is a *fixed white* light, visible through an arc of 295°, or between the bearings of N. 46° W., through east, and S. 69° W. It is elevated 62 feet above the sea, and should be seen in clear weather from a distance of 6 miles.

The light-house, 33 feet high, is the shape of a truncated pyramid with a quadrangular base, constructed of wood, and painted white.

Position, lat. 16° 37′ 10″ N.; long 39° 18′ 45″ E.

(*Variation 4° Westerly in* 1890).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 55Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 28).

JAVA—NORTH-EASTERN COAST.

MADURA STRAIT.

Alterations in light on Zwantyes (Koko) reef.

THE British Admiralty has given notice (No. 55 of 1890) that the following alterations have been made in the light exhibited from Zwantyes (Koko) reef, Madura strait, eastern coast of Java:—

The light is a *flashing white* light, showing a *flash* every *thirty seconds.*
The illuminating apparatus is of the fourth order.
In other respects this light is unchanged.
Position, lat. 7° 28′ S.; long. 113° 7′ E.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 56Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 29).

JAPAN.

SIKOK, SOUTH COAST.

Foul ground southward of Kogi Saki-Nomi Harbour.

THE British Admiralty has given notice (No. 56 of 1890) that foul rocky ground extends for a distance of 1½ cables in a S. by E. direction from Kogi Saki, northern side of entrance to Nomi harbour :—

A rock with 5 feet on it at low water spring tides, lies at the southern extreme of this foul ground, with the following bearings .—

Nomi Saki	... E.N.E.
Kadoya Saki in line with Maru Saki ...	... W. by N. ¾ N.
Kogi Saki	... N. ½ W.

NOTE.—The western point on the northern side of the entrance to the harbour is named Maru Saki ; the point 2 cables eastward, Kogi Saki ; and the point southward of Nomi village, Nomi Saki On the south side of the harbour, the point about 4 cables north-eastward of Hey Sima is named Onaga Sima ; and the point 4 cables further north-eastward, Konaga Sima.

(*Variation 4° Westerly in* 1890.)

By direction of the Government of Bengal,

EATON. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Second Publication.]

NOTIFICATION No. 57Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 30).

BAY OF BENGAL.

BRITISH BURMA—PEGU.

Regarding the approach to the Bassein River.

THE following information has been received from the Officer in charge of the party surveying the approach to the Bassein river :—

2¼ fathoms rock were found 1·3 miles S. ¼ W. of Alguada light-house.

Also 5 fathoms 1·8 miles S. *b* W. of the light-house.

Currents strong and water much discoloured.

Pending the completion of the survey, he recommends vessels to keep at least 2½ miles to southward of the light-house, as there may be less water in the latter position—

Bearings Magnetic.
Variation 2° 50′ E.

Charts affected hereby No. C137 and 152.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication.]

NOTIFICATION No. 46Mne.

The 25th February 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 23).

AUSTRALIA—EAST COAST.

INNER ROUTE.

Sunken rock and bank eastward of Claremont No. X (Chapman) island; and non-existence of rock awash south-eastward of Young island.

THE British Admiralty has given notice (No. 31 of 1890) that the following information has been received, relating to dangers found in the Inner Route, east coast of Australia, the result of recent examinations by Lieutenant and Commander G. C. Frederick, H.M.'s Surveying Vessel *Dart*:—

(1) A sunken rock, composed of coral, with a depth of 5 feet on it at low water, is situated with Claremont No. X (Chapman) island, bearing W.S.W., distant $1\frac{9}{10}$ miles.
Position: lat. 12° 53′ S., long. 143° 39′ 15″ E.

(2) A bank, with several patches of $2\frac{1}{2}$ fathoms near its western edge, extending thence more than a mile to the eastward, with patches of 4 and 5 fathoms on it, lies between the above rock and Claremont No. X island.
From the shoalest part of this bank Claremont No. X island bears W. by S., distant 8 cables.

(3) A careful search was made for the rock awash at low water, marked on the charts in a position bearing S.E., distant $1\frac{3}{10}$ miles from Young island. Depths of 12 to 14 fathoms, and a level bottom, were found all round and upon the assigned position of this rock; and at low water, and under favourable circumstances, no indications of shoal water were observed in the locality.

This rock has consequently been expunged from the Admiralty charts.
Position: lat. 12° 8′ 30″ S., long 143° 14′ E.

(*Variation* 5° *Easterly in* 1890.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th February* 1890.

[Third Publication]

NOTIFICATION No. 47Mne.

The 25th February 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 24).

AFRICA—EAST COAST.

GULF OF ADEN.

Permanent light vessel, Aden harbour, replaced in position.

IN continuation of Notice to Mariners, No. 109, dated the 12th November 1889, issued by this office, the British Admiralty has given notice (No. 35 of 1890) that on 15th February 1890 the provisional light-vessel will be replaced by the permanent light-vessel.

The light will be (as previously) a *flashing* white light, showing a flash *every minute*, and elevated 39 feet above the sea.

The light-vessel, moored in 18 feet at low water, is painted red, but will not carry a red ball at the masthead, nor hoist a red flag during the day.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th February* 1890.

JAIL DEPARTMENT.

No. 2426, *dated the* 11*th March* 1890.—Mr. M. S. Emerson made over charge of the Alipore Central Jail to Mr. A. D. Larymore on the forenoon of the 4th March 1890.

A. S. LETHBRIDGE,
Inspector-General of Jails, Bengal.

TREASURY NOTICE.

BABOO ASUTOSH SIRKAR, Deputy Collector, has been placed in charge of the Dacca Treasury, *vice* Baboo Chandra Kumar Dutt, Deputy Collector, and is authorized to draw bills on other treasuries.

A. L. CLAY, *Offg. Commissioner.*

DACCA, *the 4th March* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 4th March 1890.—Babu Rajani Kanta Sen, Sub-Inspector of Schools under the District Board at Tipperah, is appointed to act as Departmental Sub-Inspector of Schools in that district and in class VI, with effect from the 1st March 1890, or any subsequent date on which he may join his appointment, *vice* Babu Saroda Kanta Sen, on leave.

The 5th March 1890.—Maulavi Abdul Rahim, Deputy Inspector of Schools, Bhagulpore (class IV, and officiating in class III), is appointed to be Deputy Inspector of Schools, Sarun, with effect from the 1st May 1890, *vice* Pundit Siv Narayan Trivedi, transferred.

Pundit Siv Narayan Trivedi, Deputy Inspector of Schools, Sarun (class IV), is appointed to be Deputy Inspector of Schools, Gya, with effect from the 1st May 1890, *vice* Babu Baladev Misra, B.A., transferred.

Babu Baladev Misra, B.A., Deputy Inspector of Schools, Gya, on leave (class VI), is appointed to be Deputy Inspector of Schools, Bhagulpore, with effect from the 1st May 1890, *vice* Maulavi Abdul Rahim, transferred.

In the notification of the 30th January 1890, published in page 113, Part I of the *Calcutta Gazette* of the 5th February 1890, declaring that Babu Tripura Charan Banerjea, Third Master of the Commilla Zillah School to have acted in class VI during the absence, on leave, of Babu Uma Charan Ghosh *read* Babu "Tripura Charan Mookerjea" *for* Babu "Tripura Charan Banerjea."

A. CROFT, *Director of Public Instruction.*

NOTIFICATION OF THE BOARD OF REVENUE.

No. 304B.

NOTICE is hereby given that the Fourth Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Wednesday, the 2nd April 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 7th and 17th April 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 3-30 P.M. of Monday, the 7th April 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Thursday, the 7th April 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale up to December next about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES.			Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Thursday, 1st May	1890	...	2,250	2,500	4,750
On or about Monday, 2nd June	,,	...	2,250	2 500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4 750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	18,000	20,000	38,000

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 25th February* 1890

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 28th February 1890

DESCRIPTION OF SALT.	Government golahs.	Private golahs.	Afloat	Total.
	Mds.	Mds.	Mds.	Mds.
Liverpool Punga	6,83,582	.....	5 06,973	11,90,555
Bombay Kurkutch	14,863	.....	.....	14,863
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	7,58,414	.....	.....	7,58,414
Aden Kurkutch	2,60,267	.....	.....	2,60,267
Hamburg salt	93,557	.....	.....	93,557
Total ...	18,10,683	.....	5,06,973	23,17,656

By order of the Board of Revenue, L. P.,

J. SCOBELL ARMSTRONG, *Collector of Customs.*

CUSTOM HOUSE, CALCUTTA, *the 7th March* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that at the election held under section 27, Act III (B.C.) of 1884, on Saturday, the 15th February 1890, Baboo Tara Chand Gungopadhya has been elected a Commissioner for Ward No. III of the Ramjibanpore Municipality, in the district of Midnapore, *vice* Baboo Romanath Peri, who ceased to be a Commissioner under section 20 of the Act.

PRAN KUMAR DAS, *Personal Assistant, for Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 5th March* 1890.

NOTIFICATION.

IT is hereby notified for general information that a bye-election, under section 27, Act III (B.C.) of 1884, will be held on the 5th May next in Ward No. IV (Khagra) of the Berhampore Municipality, in the district of Moorshedabad, to elect a Commissioner for that Ward in the place of Baboo Prosunno Kumar Gupta, resigned.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 7th March* 1890.

NOTIFICATION.

It is hereby notified for general information that a bye-election under section 27, Act III (B.C.) of 1884, will be held on the 2nd May next in Ward No. I of the Kumarkhally Municipality, in the district of Nuddea, to elect a Commissioner for that Ward in the place of Baboo Gopaul Chunder Sanyal, who has ceased to be a Commissioner by absenting himself from six consecutive meetings.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 5th March* 1890.

NOTIFICATION.

It is hereby notified for general information that at the bye-election held on the 24th ultimo in Ward No. I of the Kumarkhally Municipality, in the district of Nuddea, Baboo Radha Raman Mozoomdar has been duly elected for the Ward in the place of Baboo Deno Nath Mozoomdar, who has ceased to be a Commissioner for not attending six consecutive meetings.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY. DIVN., CALCUTTA, *the 5th March* 1890.

The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS—PUBLIC.

Calcutta, the 6th March 1890.

No. 490.—In accordance with the provisions of section 18, sub-section (1) of the Indian Explosives Act IV of 1884, and with the directions contained in Home Department Notification No. 1964, dated the 2nd September 1887, the Governor-General in Council is pleased to publish, for general information, the following draft rule to be substituted for Rule 6 (vi) of the rules to regulate the transport and importation of explosives (published in Home Department Notification No. 1417, dated the 24th June 1887) which he proposes to make under the Act.

The draft will be taken into consideration on the expiry of two months from the date of this Notification.

DRAFT RULE 6 (*vi*).

Subject to the exception provided for, in clause (*e*), no explosive shall be conveyed by passenger train except of the kinds and in the manner hereinafter specified in this rule:

(*a*) Safety cartridges and percussion caps and safety fuze (for blasting), also fog-signals for railway use, which may be conveyed in ordinary wagons or carriages.

(*b*) Dynamite which may be carried in the form of cartridges up to the limit of 5lbs., provided that no detonators are carried in the same compartment.

(*c*) Detonators which may be carried to the number of 200, provided that in no case the amount of fulminate of mercury in the package or packages containing the detonators exceeds in the aggregate 3oz. (a certificate to this effect being given by the Company, firm or person tendering the detonators for transport or by its or his agent), provided also that no dynamite is carried in the same compartment.

(*d*) Sporting gunpowder or non-safety cartridges packed in double cases as before provided, so long as the gunpowder is contained in one-pound tin canisters packed in a stout wooden case with an outer covering of tin or zinc completely spark-proof, or in metal-lined cases of a pattern approved by the Railway Administration. But no outer case shall contain more than 25lbs. of gunpowder, and the total consignment of gunpowder or non-safety cartridges by one train shall not exceed 80lbs.

(*e*) Explosives may be carried by mixed trains on any line on which goods trains are not running, subject to the conditions that not more than one vehicle containing explosives is forwarded at any one time by a mixed train; that the precautions prescribed for conveyance by goods trains are observed; and that directly a wagon containing explosives arrives at a section on which goods trains are running, it is detached from the mixed train.

ESTABLISHMENTS.

The 1st March 1890.

No. 129.—Mr. F. H. McLaughlin is permitted to resign Her Majesty's Bengal Civil Service, with effect from the 25th March 1890, or the subsequent date on which he may sail from India.

The 3rd March 1890.

No. 135.—Mr. J. P. Hewett, Under-Secretary to the Government of India in the Home Department, is granted privilege leave for twenty-three days, with effect from the 10th instant.

No. 136.—Mr. C. Cuthbertson, Officiating Under-Secretary to the Government of Bengal in the Financial and Municipal Departments, is appointed to officiate as Under-Secretary to the Government of India in the Home Department, during the absence of Mr. J. P. Hewett on privilege leave, or until further orders.

JUDICIAL.

The 1st March, 1890.

No. 280.—Mr. A. Phillips, Barrister-at-Law, Standing Counsel for the Presidency of Fort William in Bengal, is granted leave under article 727A of the Civil Service Regulations, from the 4th March to the 27th November 1890, both days inclusive.

The 6th March 1890.

No. 309.—Mr. R. L. Upton, Solicitor to Government, has obtained leave for eight months, from the 21st March 1890, under article 727A of the Civil Service Regulations.

No. 310.—Mr. W. K. Eddis is appointed to officiate as Solicitor to Government, during the absence, on leave, of Mr. R. L. Upton, or until further orders.

C. J. LYALL,
Offg. Secy. to the Govt. of India.

The following order, issued by the Government of India in the Revenue and Agricultural Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION—FORESTS.

Calcutta, the 7th March 1890.

No. 111-*F. C.*—The undermentioned officers, who have been appointed by Her Majesty's Secretary of State to the Forest Department of India, are appointed to be Assistant Conservators of the 3rd grade, with effect from the dates specified, opposite their names, and are posted to the Provinces noted below :—

Mr. W. H. Lovegrove, Bengal,—2nd January, 1890.

* * * * * * * *

E. C. BUCK,
Secretary to the Government of India.

The following order, issued by the Government of India in the Foreign Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 6th March 1890.

No. 362-*G.*—The services of Mr. E. G. Colvin, Officiating Political Agent of the 3rd class, are replaced at the disposal of the Government of Bengal, with effect from the date on which he may be relieved of his duties as First Assistant to the Governor-General's Agent in Baluchistan.

W. J. CUNNINGHAM,
Offg. Secretary to Government of India.

The following orders, issued by the Government of India in the Finance and Commerce Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

SEPARATE REVENUE.

SALT.

The 5th March 1890.

No. 1092.—In exercise of the powers conferred by the Indian Salt Act XII of 1882, the Governor-General in Council directs that the following rules shall be substituted for rules 1 and 2 of the rules published in the notification of this department, No. 6007, dated the 29th November 1889 :—

"1. These rules shall apply to Calcutta as for the time being defined by or under the Calcutta Municipal Consolidation Act, 1888, and to the area included in a radius of two

miles from the limits of Calcutta as so defined, and shall have effect therein on and from the 8th March 1890.

"2. The importation into Calcutta or such area as aforesaid of the salt known in Calcutta and other parts of Bengal as *puckwa*, being salt which has been obtained in the manufacture of saltpetre, and on which the duty for the time being imposed under section 7 of the Act has not been paid at the place where the salt was obtained as on salt manufactured in the part of British India where that place is situated, is prohibited absolutely."

No. 1093.—In exercise of the power conferred by the last paragraph of section 1 of the Indian Salt Act XII of 1882, and in supersession of the notification in this department, No. 6005, dated the 29th November 1889, the Governor-General in Council is pleased to extend, with effect from the date of publication of this Notification, the whole of the said Act, except the portions thereof specified in the second paragraph of section 1 which are already in force and section 31, to Calcutta, as for the time being defined by or under the Calcutta Municipal Consolidation Act, 1888, and to the area included in a radius of two miles from the limits of Calcutta as so defined.

E. J. SINKINSON,
Secretary to the Government of India.

The following orders, issued by the Government of India in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 7th March 1890.

FURLOUGH AND LEAVE.

No. 218.—The undermentioned officers are granted furlough out of India :—

* * * * * * * *

Surgeon-Major E. Sanders, (m. c.) for 290 days, under rules IX and XV of the regulations of 1868.

* * * * * * * *

VOLUNTEER CORPS.

PROMOTIONS.

No. 229.—*Northern Bengal Mounted Rifles*—

Lieutenant George Edward LeFleming Davys, to be Captain, *vice* Warren, deceased.

E. H. H. COLLEN,
Secretary to the Govt. of India.

The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 7th March 1890.—It is hereby notified for general information that, in exercise of the power conferred on the Local Government by section 4 of Act XX of 1887, an Act for the protection of wild birds and game, the Lieutenant-Governor has been pleased to declare that the provisions of section 3 of the said Act, with respect to wild birds, shall apply to the following animals:—Deer, thar, wild goats, wild sheep, antelope, and squirrels of all kinds; and, in the exercise of the powers conferred by section 3 of the said Act, to direct that the rules framed by the Military authorities of the Darjeeling Cantonment under that section, and published in the notification of this day's date, shall apply to the said animals and their furs in like manner as they apply to wild birds and their plumage.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 7th March 1890.—The following rules, framed by the Military authorities of the Darjeeling Cantonment under section 3 of Act XX of 1887, an Act for the protection of wild birds and game, are hereby confirmed by the Lieutenant-Governor under sub-section (4) of the said section of the Act, and are published for general information under clause (5) of section 6 of the General Clauses Act I of 1887:—

Rules under Act XX of 1887.

The expression "wild bird" shall include pheasant, partridge, jungle fowl, quail, wild pigeons and doves, and every other kind of wild birds.

2. The expression "breeding season" shall include the period between 1st of April and 30th of September.

3. No person shall possess or sell during the breeding season any kind of wild bird recently killed or taken within the Cantonment of Darjeeling, nor import into the Cantonment the plumage of any kind of wild bird during such season.

Every breach of this rule shall be punishable with a fine not exceeding five rupees in the case of a first offence, and not exceeding ten rupees in the case of a subsequent offence.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 10th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. C. J. S. Faulder, C.S., to be the Chairman of the Durbhunga Municipality, *vice* Mr. H. S. Beadon, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 11th March 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, Choudhury Sahadeb Mohapater has been elected by the members of the Jajpur Local Board, in the district of Cuttack, to be a member of the District Board of Cuttack, *vice* Choudhry Woomakanta Bara Panda Mahapattra, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 11th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Chuprah Municipality for a public purpose, viz., for constructing a goat and sheep slaughter-house on the east of Telpa ghât road in the village of Telpa, pergunnah Chirand, zillah Sarun, it is hereby declared that for the above purpose a piece of land measuring, more or less, 8 cottahs and 1½ dhoors of standard measurement, is required. The land is bounded on the North by the field of Shyama Lal cultivated by Nirghin Ahir; West by the field of Mewa Lal; South by the field of Sheogobind Ahir; and on the East by the field of Ajboo Ahir.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 11th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Chuprah Municipality for a public purpose, viz., for constructing a road to connect the proposed goat and sheep slaughter-house with a road on the south of it, in the village of Telpa, pergunnah Chirand, zillah Sarun, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 cottah and 17 dhoors of standard measurement, is required. The land is bounded on the East by the field of Bulaki Ahir; on the West by the field of Dasai Koeri; on the North by the proposed slaughter-house; and on the South by Mahabir Shewak road.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 11th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for completing road A at No. 2, Bonomally Sircar's Street, it is hereby declared that for the above purpose portion of land No. 2, Bonomally Sircar's Street, in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 1 cottah and 4 chittacks only, is required. The boundaries of the land are as follows:—On the North a drain; on the South premises No. 2, Bonomally Sircar's Street; on the East and West the public road A.

A plan and specification of the land to be acquired have been filed in the Office of the Municipal Commissioners of Calcutta for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 11th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for completing road B at No. 2, Bonomally Sircar's Street, it is hereby declared that for the above purpose portion of land No. 10, Bisumbher Mullick's Lane, in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 15 chittacks, is required. The boundaries of the land are as follows:—On the North and South premises No. 10, Bisumbher Mullick's Lane; on the East pudlic road B; and on the West Bisumbher Mullick's Lane.

A plan and specification of the land to be acquired have been filed in the Office of the Municipal Commissioners of Calcutta for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the undermentioned plots of the Nizamut lakhiraj State lands situated in the district of Nuddea will be put up to sale at the Collectorate of Nuddea on the 13th March 1890, corresponding with 1st Chyte 1296 B.S.

The purchasers of the plots will be subject to the following conditions :—

I.—The plots will be sold revenue free to the highest bidders above the upset price.

II.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the estates to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

V.—The purchasers shall be put in possession on receipt of the orders of the Collector approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive number of plot.	Name of estate.	Mouzah.	Pergunnah.	Approximate area in bighas.	Annual assessment.	Upset price.	Boundaries.	Remarks.
				B. K. CH.	Rs. A. P.	Rs. A. P.		
1	Aujongachi in Bartoil.	Bahalapara in Bartoil.	Mohamedshahye.	31 7 14	12 0 0	313 5 0	North, east, and south of jote lands of Hagooram Boil and others of Bartoil; west of the confines of mouzah Belgharia.	Mourashi jote of Banesh Chandra Sarkar of Bongachi and dwelling-house of Gopal Chandra Ghose of Bartoil.
2	Aujongachi ..	Aujongachi .	Taragoonah	304 1 10	93 0 0	3,036 11 0	West of the dwelling-houses of Chuni Sheah and Nabin Mandal Ghose and others, ryots of the zemindars of Chitna; north of the nij-jote lands of the aforesaid zemindars; east of the confines of Khairpur; south of the nij-jote lands of the aforesaid zemindars.	Mourashi jote of Banesh Chandra Sarkar of Belgachi.
3	Dak Adda ..	Kulberia ...	Plassey ...	1 4 8	2 1 6	40 0 0	East and north of a public road; south and west of jote lands of Brojo Lal Rai.	Plot No. I, khas Nizamut.
							South of jote lands of Gurudoyal Sinha and Bhikoo Mandal; east and north of jote lands of Punchanan Rai, west of jote lands of Bani Mandal.	Plot No. II, khas Nizamut.

Nuddea Collectorate, the 14th January 1890.

N. K. Bose, for Collector

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mousah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bhagulpore, will be put up to sale at the Bhagulpore Collectorate, on Monday, the 31st day of March 1890, corresponding with 25th Choitra 1297 Fusli.

The purchasers will be subject to the following conditions of sale.

Conditions of Sale.

1. The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2 The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

3. If the amount of purchase-money do not exceed Rs 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled, the sum deposited being forfeited to Government and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

Number on district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Upset price.	Remarks.
		Acres.	Rs.	Rs.	
4981	Kolakhurd Bhatatar, pergunnah Bhagulpore.	3	10	20	

Bhagulpore Collectorate, the 25th February 1890. A. A. WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Bajitpur.	2,124 4 7	.... .	Share No.1, 3as. 3g. 2a. 16d.	Shital Nath Bhanga and others.	420 2 3	.....	28 5 0
127-1	Kismut pergunnah Bhaluka	14,943 15 8	.....	Share No. 1, 4g. 13-5-3-1	Grijanath Ray Chowdhury and others	224 13 5	.. .	31 10 5
149-1	Kismut Ramdansa, pergunnah Sarparajpur.	549 13 8	.....	Share No. 4, 2as. ...	Haran Chandra Majumdar and others.	68 11 8	.....	13 3 2
170-2	Kismut pergunnah Silimabad	5,784 6 6	....	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 9	.....	310 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banameh Mahadev Mukhopadhya.	10,768 0 1½	.....	Residue share] ... Hisya 2s. 13g. 1kr. 1t.	Hara Sundari Chaudhurani and others. Monindra Nath Mukhopadhya and others.	8,973 5 4½ 1,794 10 9	....	8,624 7 4½ 725 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hyderabad Khachak Pitrush market.	668 5 4½	Entire estate.	.....	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	69 12 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen. Chakla Nurpur Hurannessa.	708 9 11½	.....	Residue share ...	Hueni Khanam and others	261 13 6½	.....	78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	.....	Hisya 2g. 3kr. 3dt.	Durga Sunker Sen ..	5 7 9	.....	2 3 1
272	Pergunnah Shahebabad May Peshkosh Dewani, Banameh Mirza Hyderali.	533 5 6	.....	Residue share .. Hisya 1s. 11½g. ...	Rajendra Narain Bandapadhya. Ditto ditto ..	133 5 1 32 1 4	....	33 7 1 32 9 9
325	Tuppeh Mohesswardi, Banameh Baha Newaj Khan, Elahi Newaj Khan.	14,133 5 4½	.....	Hisya 15g. 1kr. 1½t. Of. Ananda Mohon, Hari Mohon and Krishna Mohon Das.	Ananda Mohon Das and others.	677 2 6	.....	192 3 9
302	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Radha Madhav.	1,452 9 1	.....	Residue share ..	Nanda Kumar Guha ..	425 6 1½	.....	150 11 6
303	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8a. Raj Kishore Sen.	1,452 9 1	.....	Ditto ..	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	145 8 7
334	Pergunnah Bhawal Jawar Naluakot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	544 0 0	.....	Ditto	Joy Chandra Chaudhury and others.	74 15 9½	.....	43 12 2½
				Hisya 1s. Banga Chandra, Har Chandra Chakraverty.	Banga Chandra Chakraverty and others.	34 0 0	.....	14 5 0½
				Hisya 9g. 2kr. 1½t. Brahmya Mayi Debya.	Brahmya Mayi Debya	16 4 8	.....	14 1 1
352	Pergunnah Mobarak Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ..	Showdamini Gupta and others.	284 6 9½	.....	74 12 2
362	Shahar Chandina May Peshkosh Chandina, Maulvi Abdul Ali.	1,698 10 8	.....	Ditto .	Protap Chandra Das and others.	664 8 2	.....	170 0
389	Pergunnah Bikrampur, taluq Ram Gunga Hosu.	684 5 0	.....	Ditto	Sitamani and others ..	256 9 0	.....	95 0 0
4349	Pergunnah Patpashar, taluq Golam Hosen Chaudhuri.	930 3 11½	.....	Ditto	Amirannessa Khatoon, Manager for Maulvi Abdul Hye and others.	359 1 9	.....	86 15 11
				Hisya 1½s. Najbannessa and others.	Najbannessa and others.	87 3 5	.....	8 9 10
				Hisya 3s. 2g. 1kr. 1½kg. Hamidannessa and others.	Hamidannessa Khatoon and others.	181 12 2	.....	85 11 1
5849	Pergunnah Hasshara Raja Ram Chaudhuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	.....	1 12 0	.....
6551	Pergunnah Rajnagar, taluq Debi Prosad Ghosh.	642 2 1½	.....	Residue share	Kala Chand Shaha and others.	535 1 8½	.....	40 1 8
9434	Char Buktabali .	584 0 0	Entire estate.	.....	Pran Nath Pare and others.	.....	153 0 0	.....
9660	Tuppeh Amirabad, Estate No. 234.	760 4 1½	Ditto ...	.....	Abhaya Charan Das and Brojendra Kumar Rai Chaudhuri.	.....	73 14 3	.....
9069	Char Fukurhati within Char Krishnapura.	819 0 0	Ditto ...	.....	Kripa Mayi Debya and others.	.....	7 2 0	.....
9083	Mouzah Golara Kaluchari within Char Jalua Kamta.	752 0 0	Ditto ...	.....	A. M. Bhoogy Shaheb, Receiver.	.....	149 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	.....	Kailash Bashini and Hindhu Bashini Chaudhurani and others.	.....	299 0 0	.....
9762	Pergunnah Burdakhat Char Delwarpur.	4,196 0 0	Ditto ...	.....	Joharuddin Hyder and others.	.....	1,052 0 0	.....

Dacca Collectorate, the 8th February 1890. L. HARE, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed
		A. R P.	Rs.
98	Kismut Jot Kusturi, pergunnah Kotuali	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs A. P.				Rs A. P.	Rs. A. P.	Rs A. P.
53	Shahapur, pergunnah Joynugal.	3,490 7 0	... ..	1*a*. 13*g*. 14. 1 *krants*	Choudhuri Mahomed Ichcha and others.	591 11 8	..	4 7 0
75	Turigram, pergunnah Shahajapur.	1,508 0 0	The whole	.. ...	Sheikh Tarikulla ...	.	0 2 0	.....
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0	.	8*a*.	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	13 1 6
109	Daurka, pergunnah Ichchapukhuria.	1,803 1 0	...	13*a*. 17*g*. 2*k*, ...	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy, minor, and others.	1,503 9 2	.....	3 10 1
122	Bajitpur, pergunnah Akbarshahi.	2,006 1 0	....	8*a*. 8*g*. 1*kag*. 8 *til*,	Bal Madhab Roy and others.	1,760 12 11	.....	14 4 6
936	Palitpur Basantapur, pergunnah Dadshahi.	751 10 0	The whole	... .	Ratan Kumari Bibi and others.	...	218 8 0	..

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy. Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Durbhunga will be put up to public and unreserved sale at the Collector's Office of that district on the 15th March 1890, corresponding with 9th Chait 1297F., on Saturday, at 12 o'clock, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

Serial No.	Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold the arrears due from it
			Rs A P.				Rs. A. P.		Rs. A P
1	437	Erazi Ganj Barar Hurdaspore, pergunnah Bala Gutch.	547 2 10	... ...	Patti ijmali 9 annas 12 gundas.	Mosamat Jasoda Koer, mother and guardian of Adya Parshad Singh, Baboo Sital Parshad Singh, Shew Gulam Singh, Singheswar Parshad Singh, Nat Singh Parshad, Chitar Narain Singh, Kunj Narain Singh and others.	303 8 8	.....	300 8 4

Durbhunga Collectorate, the 12th February 1890. A. AHMAD, Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Choitra 1296 (B S.), for the kist ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Tuppeh Azimpur, hissa 8a. 19g.	2,451 4 4½	.....	Joint share, 6a. 10g. 3k. 1½ 10.	Asmat Ali Khan Choudhury and others.	917 7 6½	.....	6 10 10
1416	Taluq Bancha Ram Bosu, hissa 8a., pergunnah Bozergomedpur.	1,550 5 3	.....	8a. under separate account.	Dinabandhu Sen ...	290 5 10½	.....	45 6 4½
1487	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Darpa Narayan Roy, and Mritunjaya Mukherjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½kt. Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½	.....	24 13 1
1548	Taluq Mohammad Hamza, pergunnah Bozergomedpur.	1,159 3 8	.....	8a. Ijmali share ..	Grish Chandra Mukhapadhyaya and others.	579 9 10	.....	28 4 11
1578	Pamoty Alexander taluq, pergunnah Bozergomedpur.	4,853 12 0½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	604 3 2½	.....	113 2 11½
1585	Radha Krishna, Harananda Roy, and Kalidas Siddhanta taluq. pergunnah Bozergomedpur.	24,036 10 10	.....	5a. 14½g. 1½k. Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	.....	43 15 1½
1628	Ramna Banna Joar Mohammud Safi taluq. pergunnah Bozergomedpur.	19,487 10 8	.....	8a. 15½g. 19-15-6½-1. Ijmali share.	Golam Asad Choudhuri and others.	10,676 12 1	.....	2,119 11 7
1631	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	257 12 2½	.....	51 13 5½
1633	Ditto ditto ..	2,062 2 11½	.....	3a. under separate account.	Taramani Debya ...	386 10 7	.....	78 6 2
1751	Radha Kanta Sen taluq. pergunnah Chandradwip.	906 10 8	.....	18a. Ijmali share ..	Kali Mohan Mohinta and others.	453 5 4	.....	2 13 9½
1764	Pergunnah Dakhin Shahabazpur, 3a. 1½g 1k. share.	8,543 6 8	Whole estate.	.....	Mr Alexander Toms, executor of estate J. P. Wise and others.	.....	5,332 10 8½	.....
1916	Haveli Salimabad tappeh, hissa 10g.	1,045 7 0½	.....	5a. 10g. Ijmali share	Bama Sundari Gupta and others.	359 5 5½	.....	72 1 11½
1916	Ditto ditto ..	1,045 7 0½	.....	6a. 15g. share under separate account.	Kailash Chandra Sen Majumdar and others.	441 1 6½	.....	89 13 0½
3965	Pergunnah Ratandi Kalikapur, hissa 2a.	3,154 11 5	.....	7a. 6½g. 2kts. Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,445 14 5	.....	403 9 7
3857	Pergunnah Ratandi Kalikapur, hissa 4a.	6,309 6 10	...	10g. Ijmali share ...	Jagadiswari Debya ..	197 2 6	.....	67 5 5
3958	Ditto ditto	6,309 6 10	.....	6½g. 2kts. Ijmali share	Ditto	131 7 4	.....	43 15 11
4540	Padma *alias* Ramjanpur, pergunnah Kashimpur Silapatti.	5,383 0 0	Whole estate.	.....	Abinash Chandra Ghosal and others.	.....	421 8 0	.....
4550	Kukua Khag Dom, Domingo Manual, DeSilva, Braja Mohan Sen, Durga Mohan Das, Musammat Krishna Mohini Osat taluq, pergunnah Bozergomedpur.	9,796 0 0	Ditto ..	.....	Jagadeswari Debya and others.	.....	For 1888-89 8,209 4 4, 1889, kist September 153 0 0, 1890, kist January 1,224 0 0	.....
							9,586 4 4	
4757	Madanpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ..	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others.	.....	371 10 6	...
4897	Tiakhali, pergunnah Chandradwip.	533 14 3	.....	10a. 8g. Ijmali share	Nistarini and others	342 0 4	.....	32 0 6
4897	Ditto ditto ...	533 14 3	.....	1a. 15g share under separate account.	Tarini Charan Somoddar.	58 6 4	.....	5 7 6
5008	Chak Barguna, Haola No. 16.	668 0 0	Haoladari right of the whole Haola.	.....	Ramjan Haoladar and others.	.....	167 0 0	...
5198	Ramdeb Datta taluq. mouzah Barahipur, pergunnah Gopalpur Mirjanagar.	699 0 0	Whole estate.	.....	Jearuddin Haoladar and others.	.....	0 10 0	.....
5211	Kumuria Chur, hissa 13a. 18½g. 1kt., pergunnah Uttar Shahabazpur	1,109 0 0	.....	3a. 8g. 2kt. 11½t. Ijmali share.	Durga Prosonna Roy and others.	259 5 0	.....	178 0 1
5228	Chhota Lumchi Dhali Chur.	1,333 0 0	.....	3a. 8½g. 1kt. 20dhur. Ijmali share.	Mr. A. Toms, executor of estate of J. P. Wise and others.	262 11 7	.....	107 7 0
6449	Tappeh Sultanabad, hissa 7½g., Asmanneesa Khatun and others.	542 1 4	Whole estate.	.....	Moulvie Abdul Wazed and others.	.....	5 10 4	.....

Backergunge Collectorate, the 15th February 1890. POORNO CHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Furreedpore will be put up for sale at the Collector's Office of that district on the 25th March 1890, corresponding to 13th Choitra 1296 (B. S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
249	Panchashazari, pergunnah Chandpratap.	744 0 0	Whole .	.....	Iswar Chandra Saha and others.	.....	186 0 0	.....
284	Panchashazari, pergunnah Sahajapur.	1,521 0 0	Do. ...	.....	Jadub Chandra Bagchi and others.	.....	300 11 0	.....
3555	Taluq Ratneswar Pal Choudhury, pergunnah Na arat Shahi.	2,559 13 8	.....	Hissa 4 annas ..	Uma Prosonno Pal Choudhury and others.	639 15 0	....	61 11 6
3870	Taluq Ram Prosad Rai, pergunnah Kharagpur.	524 12 0½	Whole ...	.....	Abhoy Coomer Rai and others.	.....	27 15 5½	.....
4004	Taluq Kali Sankar Sen, pergunnah Rajnagore.	1,140 4 3½	Do. ...	.....	Kumadini Kant Barujya Choudhuri and others.	.....	128 5 11	.....
4023	Zemindari Brajdev Rai, pergunnah Rajnagore.	4,119 4 9½	.....	Hissa 10 annas excepting the specific share bearing a revenue of Rs. 63-1.	Sashi Mohan Pal Choudhuri and others.	2,574 9 9½	.....	816 5 10
4028	Ditto ditto ...	4,119 4 9½	.....	Hissa 6 annas, ditto.	Gopi Mohan Rai Choudhuri and others.	1,481 10 0	.....	185 13
6220	Hissa Nilmoni Sen, pergunnah Rajnagore.	597 12 3	Whole ...	.....	Raj Coomer Pal and others.	.....	82 8 7½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa 7½ annas ..	Raj Coomer Pal and Mohima Chandra Pal.	280 3 1½	.....	74 0 2½
6220	Ditto ditto ...	597 12 3	Whole ...	.....	Haro Lal Pal and others.	.....	5 7 4½	.....
6220	Ditto ditto ..	597 12 3	.....	Hissa ½ anna ...	Haro Lal Pal ...	18 11 0	.....	4 14 11½
6305	Gaslai char, appertaining to char Madan Sankar.	670 12 0	Whole ...	.....	Kripa Moyee Debya, Poorna Chandra Bandopadhya and others.	.....	11 7 3	.....

Furreedpore Collectorate, the 15th February 1890. PURNO CHANDRA RAI, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fasli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
261	Ibraheempoor, pergunnah Brail.	535 0 9	.....	12a. 8g. 1kr, 1k. ...	Baisakhi Lall and others.	410 2 9	.....	51 4 0
907	Akhta, pergunnah Rabra Chumparun.	1,178 5 9	.....	3a. 12g. 2c. 2k. 12r. ...	Babu Salookat Deo Narayan.	266 8 1	.....	141 8 0½
921	Muzudpoor Dowlat, pergunnah ditto.	4,450 12 3	.....	8a. 1g. 1k. 1d.	Rajcoomar Babu, Deo Nunden Singh and others.	2,240 13 2	.....	113 8 6½
296	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a, 1c. 1d.	Babu Shumbhoo Pershad, Chundika Pershad and others.	1,043 14 5	.....	449 8 11½
1099	Maksoodp or Karriah, pergunnah ditto.	1,067 11 9	.....	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others.	483 13 1	.....	25 1 9½
3494	Bidupoor, pergunnah Hajipoor.	1,707 3 3	The whole estate.	.....	Ramkishun Panday .	1,707 3 3	156 12 0	.....
3528	Jooraswanpoor, pergunnah ditto.	719 10 7	.....	16g. 2c. 2k. 5r.	Harbuns Singh ..	87 7 3	.....	6 0 3
3528	Ditto	719 10 7	.....	8g. 3c. 3r.	Deo Narayan Singh ...	19 11 0	.....	3 7 5
3528	Ditto	719 10 7	.....	19g. 3c. 2k. 2d. 15r. ...	Patul Kuer	45 0 0	....	4 11 11
3528	Ditto	717 10 7	..	2a. 14g. 1k. 5r.	Upnot Narayan ..	121 10 3	.. ..	17 3 6
3630	Maniarpoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,303 5 11	295 1 4	.....
5402	Shariffpoor, pergunnah Nanpoor	503 9 1	.....	5a 6g. 2c. 2k.	Sher Bahadur Singh and others.	357 12 3	.....	20 14 3
9462	Brazee Nowberrar-Bungra, pergunnah Gudah Sand.	865 5 0	.....	1a. 6g. 2c. 2k.	Mangul Pershad ...	73 2 2	.....	9 0 4
9462	Ditto	865 5 0	.....	2a. 13g. 1c. 1k. 1d. ...	Debi Dutt Singh ..	144 5 4	.....	8 0 4
9462	Ditto	865 5 0	.....	5a. 6g. 2c 1k. 2d. ..	Radha Pal Singh ..	288 7 0	... ..	0 1 4
9462	Ditto	865 5 0	.....	6a. 13g. 1c. 1k.	Braham Deo Narayan Singh.	360 6 6	.....	20 0 6
9894	Raja Pakurchakla, Gingowl, pergunnah Bisarah.	948 2 3	The whole estate.	.....	Nawnidh Lall and others.	908 2 3	62 0 0	.....

Mozufferpore Collectorate, the 15th February 1890. E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Hooghly will be put up to public and unreserved sale at the Collector's office of that district on the 24th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2	Mukoondopore, pergunnah Chowmahs.	14,550 2 9	The whole estate.		Rajindra Narain Nundy and others.	...	450 9 11	...
10	Radhakantobati, pergunnah Pandooa.	624 11 11	...	The entire estate except the share of which separate account has been opened.	Sreehurry Nundy and others.	596 13 11	...	59 6 0
11	Chhalalpore, pergunnah Pandooa.	767 6 2	...	Ditto ditto	Aisa Khaton *alias* Abadonnessa Bibee and others.	835 13 2	...	25 11 7
26	Malikapore, pergunnah Saligari.	10,505 3 8	...	Ditto ditto	Nil Komul Mitter and others.	4,507 14 8	...	1,682 7 4
49	Hatisala, pergunnah Chowmahs.	11,569 5 0	...	Ditto ditto	Raja Peary Mohun Mookerjee and others.	7,712 14 0	...	1,009 10 0
54	Thaipara pergunnah Pandooa.	1,066 1 0	...	7*a*. 19*g* 1*k*. 8*d*. 6½ *kag*. share of seventeen mouzahs, "Thaipara and others" of which separate account has been opened and marked A.	Woomadotonnessa Bibee.	476 0 0	...	8 0 0
56	Champahati, pergunnah Pandooa.	606 7 2	...	The entire estate except the share of which separate account has been opened.	Bidhoomoni Dassee and others.	598 8 6½	...	170 0 0
65	Nundingram, pergunnah Pandooa.	1,975 9 0	...	8 Annas share of the estate of which separate account has been opened and marked A.	Kesub Chandra Chatterjee.	987 13 0	...	30 0 0
117	Rajhat, pergunnah Khosalpore.	726 0 3		The entire estate except the share of which separate account has been opened.	Jeebunkristo Gossain and others.	265 11 3	...	35 11 3
159	Chatra Baday, pergunnah Boro.	740 9 5	...	Ditto ditto	Bhola Nath Mitter and others.	43 15 1	..	0 1 10
159	Ditto ditto	740 9 5	...	2*a*. 13*g* share of the estate of which separate account has been opened and marked A.	Chandra Kanto Mookerjee and others.	145 9 4	...	4 10 0
191	Haripore, pergunnah Chowmahs.	851 3 2	...	The entire estate except the share of which separate account has been opened.	Suthdoyal Banerjee and others.	728 2 2	...	87 4 10
2074	Joerut Chur, pergunnah Hatkanda.	532 5 6	The whole estate.	.....	Joy Kristo Mookerjee	...	246 0 0	...
2521	Digra, pergunnah Boro.	530 3 5	The whole estate.	.....	Ramdoyal Banerjee ..	...	198 0 0	..
2541	Khar Sarai, pergunnah Boro.	1,311 10 0	...	The entire estate except the share of which separate account has been opened.	Ramdoyal Banerjee ...	655 13 6	...	162 8 0
3004	Ramkristopore pergunnah Boro.	563 14 9	...	8 Annas share of the estate of which separate account has been opened and marked A.	Ranee Surnomoyee Dassee.	281 15 0	...	103 0 0
4065	Sheikpore, pergunnah Balra.	10,443 11 0	..	The entire estate except the share of which separate account has been opened.	Girish Chundra Roy and others.	1,740 3 0	...	649 7 2

Hooghly Collectorate, the 14th February 1890. MAHOMED ISRAIL, for Collector of Hooghly.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B C) of 1871, that the undermentioned dependent tenures in the Satkanea Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad.

Serial No.	Nos. of tenures on Register No. 1.	Names of tenures and their situations.	ANNUAL RENTAL		THE AMOUNT OF ARREARS FOR WHICH THE TENURES TO BE SOLD.			REMARKS.
			Rent.	Cesses.	Rent.	Cesses.	Total.	
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	6 1823	*Thanna Satkanea, mouzah Napora.* Taluk Raj Kumar Roy and Brojeshwari, baboit taluk Bisheshwari Naba Kumar, No 541—408.	1,017 2 0	44 8 6	310 0 0	13 7 0	323 7 0	The entire taluks will be sold.
2	20 420	*Thanna Satkanea, mouzah Chambal.* Taluk Tajannissa Chowdhuranee ...	1,193 4 10	176 13 6	745 4 10	110 6 6	855 11 4	

C. P CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
425	Payerpore, pergunnah Futtehjungpore.	Rs. A. P. 3,414 9 6	.....	5*a* 10*g*. 2*k*. 17½*t*. share bearing No. 425-0.	Kala Chand Biswas and others.	Rs. A. P. 1,175 6 11	Rs. A. P.	Rs. A. P. 1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole estate.	.....	Messrs. Robert Watson and Co. and others.	.....	7,561 6 0	.....
815	Ditto ditto ..	1,160 5 0	Ditto ..	.....	Sreekrishna Bhowmik and others.	.....	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, and under Act VII (B C.) of 1868, that the undermentioned estates or shares of estates in the district of Mymensingh will be put up for sale at the Collector's Office of that district on the 25th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
9	Zemindari pergunnah Attiah, hissa 2½ annas.	Rs A. P. 6,729 2 0	.. ..	Ejmali share exclusive of the separate accounts opened under sections 10 and 11 of Act 11 of 1859	Nazamon Nessa Khanum Chowdhurain and others.	Rs. A. P. 2,418 6 0	Rs A. P.	Rs. A. P. 36 6 6
70	Zemindari pergunnah Juanshaye.	10,525 14 0	.....	Separate share 2 annas 5 gds. 2 cr. 6 dips.	L. M. Pogose, L. G. Mary Pogose and others	1,103 12 0	.. ..	372 15 5
96	Zemindari hissa 4½ annas with bejabeta taluq, pergunnah Nasirujjal.	7,197 10 0	.. ..	Separate share 11 gds. 2cr 2 kg 10 til. of Kismut Singdha	Sheik Hasari and others.	1 10 0	...	1 4 0
96	Ditto ditto ..	7,197 10 0	. ..	1das. of taluq Dip Chandra Rai	Mohun Chandra Roy Chowdhuri	204 5 0	...	70 0 0
96	Ditto ditto ...	7,197 10 0	.....	12½gds share of the estate.	Muhamed Mafidar Rohoman	230 12 0	... .	79 13 0
121	Thaneswar Badia, pergunnah Nasirujjal.	729 10 0	... ..	14ans 19gds. 2cr, 2kg ejmali share.	Apsullah Bhuya and others.	711 2 0	.....	275 4 0
124	Payandabeg, hissa 18 as 6 gds 2 cr. 2 kranta tuppeh Hasradi.	1,790 2 0	.....	7½s. share of Kismat Patua Bhanga, 6½s share of Nagor Hazradi, 4as of Bir Masua, 8 gds. of chakley Maha atpur and 16as. of other mouzas	Upendra Kishore Roy Chowdury and others	358 13 0	... ..	24 9 0
137	Zemindari pergunnah Susung.	1,988 4 0	.. ..	18gds. 1cr. 2kranta and 16til share of the estate.	Joy Nath Roy	96 1 0	.....	33 5 0
	Ditto ditto ..	1,988 4 0	.... .	8gds 1cr 2kranta 1 til share of the estate.	Biaweswari Debia and others.	53 5 0	... ..	29 1 0
144	Zemindari pergunnah Sherepur, hissa 1a. 5g.	2,643 8 0	.....	Joint share exclusive of separate account opened under Act XI of 1859.	Dharam Kanta Chowdhuri and others.	1,614 1 0	... .	3 14 6
144	Ditto ditto .	2,643 8 0	.....	2a. 14g 8cr. 3 dips separate share of the estate.	Har Kumar Chowdhuri.	453 3 0		143 9 0
5000	Char Ghugra Kandi, pergunnah Sherepur	765 15 0	Whole ..	.....	Radha Ballav Chowdhuri and others.	.....	2 0 0	....
6179	Juar Jagat Char, pergunnah Bardakhat, tuppeh Kurikhayi.	754 8 0	.....	1 anna separate share of the estate.	Ram Keshab Shaha and others.	47 3 0	.....	23 5 0
7503	Taluq Nurunessa Khanum with ejmali mouzah Taratia D'gar, tuppeh Ranbhawal.	1,208 0 0	Whole ...		Administrator General of Bengal and others.	.....	140 9 8	.....
				Second class.				
5013	Chak Shakchura, Tuppeh Ranbhawal.	511 0 0	.....	15ans. 17g. share of the estate.	Goloke Chandra Bhattacharyya.	506 4 0	.....	136 6 0
5398	Char Jungidi and others, pergunnah Sherepur.	1,220 0 0	Whole ...	.....	Kishori Mohan Chowdhuri and others.	.. .	104 12 9	.. .

Mymensingh Collectorate, the 14th February 1890. JUGGOBONDHU KHAN, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
26	Kismat 1*a.* 6*g.* 2*c.* 1*k.* 4*dt.*, pergunnah Bardakhat.	Rs. A. P. 13,319 4 9	.....	3*a.* 1½*kara* share.	Srimati Barni Khanam and and others.	Rs. A. P. K. 2,508 0 8 2½	Rs. A. P.	Rs. A. P. K. 1,187 1 7 5 due up to Agrahayan 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859.
26	Ditto ...	13,319 4 9	.....	14*g.* 1*kara* 2 [illegible] *kt.* share.	Nabin Chandra Das Roy and others.	599 9 2 14½	....	64 9 5 2 ditto.	Remaining portion that has not been separated.
30	Kismat 3*a.*, pergunnah Choudhagano.	1,360 0 6	.....	5*a.* share .	Amuka Charan Lashker and others.	340 0 0 17½	. ...	46 2 0 12½ ditto.	Ditto ditto.
236	Taluk Ramdhan Majumder, pergunnah Mohabutpur.	1,189 13 10	.....	10*a.* 18*g.* 1*kara* 1*kt.* share.	Alam Rajah *alias* Idhangazi Chowdry and others.	703 3 11 0	... ..	92 9 11 0 ditto.	Ditto ditto.
265	Taluk Shahasadi Khanam, pergunnah Narayanpur.	746 10 8	.....	3*a.* 11*g.* 1*kara* 2*dt.* share.	Srimati Shafaranessa Bibi and others.	165 14 9 9½	.....	0 5 0 0 ditto.	Ditto ditto.
372	Mouzah Ahamudpur, pergunnah Bardakhat.	1,328 6 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ishan Chandra Roy.	409 7 4 0	... ..	130 5 4 0 for kist November 1889.	Ditto ditto.
401	Jowar Hatiarah, pergunnah Bardakhat.	3,141 8 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ditto ...	1,047 1 0 0	.....	356 5 8 0 ditto.	Ditto ditto.
485	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,560 0 0	Whole	.....	Golam Moula . .	.....	110 0 0 for kist November 1889.	.....	.....
1925	Chur Nagarerkandi, No. 211, pergunnah Utter Shahapur, resumed under Regulation 2 of 1819	1,296 10 9	Do. ...	.....	Dr. George Manock and others.	.....	296 3 11 ditto.	.....	Property of individuals settled for 11 years from 1294 to 1304 B.S.
1933	Mouzah Gangercoat, pergunnah Bardakhat.	895 0 0	Do.	.....	Braja Nath Roychowdry and others.	.....	76 14 5 ditto.	.....	Meadi taluk settled for 17 years from 1288 to 1304 B.S.
1983	Jowar Tinchitta, pergunnah Bardakhat.	603 12 3	Do.	.....	Durga Charan Das Majumder and others.	.. ...	210 5 3 ditto.	.....	Meadi taluk settled for 18 years from 1287 to 1304 B.S.
1933	Mouzah Dairah Chairpara, pergunnah Bardakhat.	1,451 1 3	Do. ...	.....	Kali Das Bhadra and others.	.....	277 12 0 ditto.	.. ...	Meadi taluk settled for 14 years from 1291 to 1304 B.S.
1913	Jowar Rasullabad, pergunnah Bardakhat.	3,969 14 11	Do. .	.....	Kamalakanta Padder and others.	.....	1,364 10 6 ditto.	.....	Meadi taluk settled for 13 years from 1292 to 1304 B.S.
1933	Jowar Daulatpur, tappeh Kurikhai, pergunnah Bardakhat.	1,486 12 0	Do. ..	.....	Former owner—Ram Gopal Chakraborty and others. Auction purchaser—Mohesh Chandra Chakravarti. Sale not yet confirmed.	.....	493 14 0 ditto.	.....	Meadi taluk settled for 30 years from 1281 to 1310 B.S.

Tipperah Collectorate, the 15th February 1890. R. T. GREER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates in the district of Moorshedabad will be put up for sale at the Collector's office of that district on 21st March 1890, corresponding with 9th Choitro, Friday, 1296 (B.S.), for arrears of revenue due up to 13th January 1890.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
9	Kismut pergunnah Kasipore, pergunnah Kasipore.	Rs. A. P. 8,074 3 0	... ..	1*a.* 8*g.* 9*kgs.* ...	Srinath Roy Chowdhury, &c.	Rs. A. P. 720 7 0	Rs. A. P.	Rs. A. P. 53 0 4	Of the entire estate, 1*a.* 8*g.* 9*kgs.* share belonging to Srinath Roy Chowdhury, &c., the sudder jumma of which is Rs. 720-7, will be sold.
202	Kismut Huda Barnagar, pergunnah Muraripore.	4,062 13 1 Police 72 2 4	.....	8*a.* 19*g.* 2*karas*	Moharanee Brojo Sundari Debya.	2,277 10 11 Police 40 8 0	.....	963 8 10 Police 10 14 0	Of the entire estate, joint property (ijmali) of 8*a.* 19*g.* 2*karas* belonging to Brojo Sundari Debya, the sudder jumma of which is Rs. 2,318-3-11 will be sold.
		4,134 15 5				2,318 2 11		974 6 10	
467	Kismut mouzah Syud Kulutia, pergunnah Fatehsingh	570 11 1	Entire mehal.	.....	Syud Farid Karim, &c.	.....	15 14 5	.....	
557	Kismut Gunj Jangipore, pergunnah Gonkur.	714 8 11	Ditto .	.....	Bepin Behari Nath	.. ...	179 14 10	.....	
1486	North of kismut Jangipore, char Enayenagar, Rakshata and Khiderpore.	528 2 0	Ditto	....	Proprietoress and settlement-maker, Rukshmini Barmanya.	.....	Current 306 0 0 Arrear 1,436 9 6 1,832 9 6	.....	The proprietary and settlement right of the estate from 1st April 1887 up to 31st March 1894 will be sold.

Moorshedabad Collectorate, dated Berhampore, the 13th February 1890. J. G. RITCHIE, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Midnapur will be put up to public and unreserved sale at the Collector's Office of that district on 25th March 1890, Tuesday, corresponding with Bengali 1296, 13th Chaitro, and Amli 1297, 14th Chaitro, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 12th January 1890.

1	2	3	4	5	6	7	8	
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
41	Pergunnah Khandar, mehal Amra *alias* Hooa (thana Sabung and Midnapur)	Rs. A. P. 1,265 13 2	Entire	..	Gopinath Masanto, Nando Lall Masanto and others	Rs A P. ..	Rs A. P. 21 15 8	Rs. A. P. .. ..
45	Pergunnah Khandar, mehal Amonpur (thana Midnapur and Naraingur).	1,356 2 10	.....	9*a* 1*g* are of the joint property.	Baboo Kedarnath Bandopadhya, head assistant, on behalf of the minor of Turka estate, Radha Govindo Pal, and the Collector of Midnapur on behalf of Haripado Masonto under the Court of Wards,	813 11 4	.. ..	41 13 10 (Minor has share in the estate.)
73	Pergunnah Kelle: Mouzahor, mehal Anandopur (thana Sabung).	5,657 4 9	.....	Separate account— A *g* *k*. Anondopur . 6 5 0 Duborajpur 6 5 0 Madhubchuk 6 5 0 Kolagachea . 3 2 2 Masonchuk 3 2 2 Shamsundurpur 3 2 2	Srimotya Dassi, Moni Dasi, mother and guardian of Sripoti Charan De, minor	1,795 3 8	.. .	616 9 8
80	Pergunnah Moyna, mehal Ankhuachuk Dakhin *alias* Dakhin Ankhua (thana Sabung)	873 13 6	Entire		Khem Chandra Bandopadhya, self and Srimotya Nistarini Debya, mother and guardian of Panchanan and Lalit Mohon Bandopadhya, minors	.. ..	301 15 6	.. ..
124	Pergunnah Kelle: Midnapur, mehal Badar, thana Kespur.	906 6 1	Do. ...	..	Brojo Das Datta	.. ...	310 8 9	.....
143	Pergunnah Sabung, mehal Bohulpur (thana Sabung, Panskura).	2,698 3 1	.....	Separate account, 3*a* 2*g*. 2*k*. share of the mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripati Charan De, minor	526 15 11	... ..	181 0 11
204	Pergunnah Khandar, mehal Barikbar *alias* Bazgones (thana Sabung, Midnapur and Naraingur).	3,496 0 3	.....	Joint property— A *g*. *k* Damudar Kismat ... 4 0 0 Barikbar ... 4 0 0 Bidebpur 4 0 0 Chowdhurychuk 4 0 0 Holodhorchuk 4 0 0 Mohonnondichuk .. 4 0 0 Baboo Dolui-chuk 4 0 0 Ram Chandra chuk 4 0 0 Anondodoluichuk ... 4 0 0 Jibunchuk 4 0 0 Abhiram Bar 4 0 0 Ochubar 4 0 0 Damudarchuk 4 0 0 Arjunchuk 4 0 0 Kotai . 4 0 0 Bishtuchuk 4 0 0 Joseageres 4 0 0 Srimontopur 4 0 0 Mawa Kismat 4 0 0 Dasa 4 0 0 Kakhooschuk 4 0 0 Modnchukbar 4 0 0 Raghudoluichuk . 4 0 0 Khordabad chuk . 4 0 0 Chuk Basdeb 4 0 0 Joaseria 4 0 0 Krorda ... 4 0 0 Biswanath chuk ... 4 0 0 Dordra 2 6 1 Dordra chuk Kelle .. 2 6 1 Lal chuk ... 2 6 1 Salukea .. 2 6 1 Gopal Sing chuk ... 2 6 1	Srimotya Prosono Mozi Jibanbundu Pardi and others.	780 15 6	.....	94 12 9
231	Pergunnah Batitaki, mehal Bural (thana town, Sabung, Narsingur).	1,213 7 5	.....	8*a* of the joint mehal 8*a* of the separate account mehal.	Jibun Kristo Ghose .. Administrator-General, Calcutta of the estate of Srikristo Ghose.	606 11 8 606 11 9	. . ..	199 7 7 199 5 1
271	Pergunnah Kelle: Moyna, mehal Borisa *alias* Horisa Ramchuk, (thana Sabung).	2,077 9 5	Entire	.. . .	Ramhari Mondul and Sodanand Mondul and others.	..	534 13 5	. ..
323	Pergunnah Egrachor, mehal Bhatda, thana Egra.	3,614 13 4	..	Joint property— Mouza Totulea 1, Kesorang, 2*a*. 7*g*. 5*k*.	Nundo Kumar, Satrughon Acharjya and others.	1,270 13 7	.....	4 11 6

15*k*. Bhatda, 8*a*. 9*g*. 2*k*.; Mirzapur 1; Karokpara 1; Noripur 8*a*; Jhurea 1 mouza; Gopinathpur 1 mouza; Sundurpur 1 mouza, Ke: Ramardeyan 8*a*.12*g*; Noroliopur 1 mouza.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
364	Pergunnah Kellee Moynachor, mehal Chongra Chuk, thana Sabung.	Rs. A. P. 546 15 8	Entire ..	.....	Dinabundhu Jana, Kartik Prosad Jana and others.	Rs. A. P.	Rs. A. P. 0 2 4	Rs. A. P. .....
386	Pergunnah Kasijora, mehal Dabnapukur, thana Panskura.	618 13 3 with police.	Do. .	... .	Nemaichand De and Srimotya Dasi Moni Dasi, mother and guardian of Sripoti Charan Dey, minor.	.....,	120 0 3 with police.	.....
387	Pergunnah Shahapur, mehal Dingul, thana Debra.	2,900 3 1	.....	8a share of the joint mehal. No. 1. 8a of the separate account.	Jibun Kristo Ghose ... Administrator-General, Calcutta, estate Srikristo Ghose.	1,453 1 7 1,453 1 6	....	484 3 1 484 2 3
391	Pergunnah Kedar Kund, mehal Duyan (thana Debra).	1,135 8 3	Entire ..	.....	Sridhoroharan Nundi ...	.....	390 3 3	... ..
504	Pergunnah Kismat Kasijora, mehal Gopalnagur, (thana Panskura).	1,511 0 9	.....	10a. 13g. 1k 1kr. of the joint mehal.	Doyal Chondra Jana, Basambur Jana and others.	1,007 5 10	.....	85 14 6
508	Pergunnah Gagnapur, mehal Ghosepur, thana Panskura.	1,208 1 8	.....	8a. share of the entire joint estate. No. 1, separate account 8a. share.	Joint share Jibun Kristo Ghose. Administrator-General, Calcutta, estate Srikrishna Ghose.	604 0 10 604 0 10	... .	197 1 10 197 1 10
600	Pergunnah Sabung, mehal Horihurpur, thana Sibung.	2,427 11 0	....	9a. 15g. share of the entire joint mehal. No. 1, separate account, 6a 5g. share of the entire mehal.	Nemaichand Dey ... Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	1,479 5 11 948 5 1	....	507 14 1 325 4 1
627	Pergunnah Chetcos, mehal Horirampur, thana Daspur.	25,920 3 9 with police.	... ..	8a. share of the mehal.	Joint share Nobolal Khan, Koralpodo Khan and others.	12,960 1 11 with police.	.....	4,885 7 with police.
629	Pergunnah Moynachor, mehal Ankhpurbo (thana Tamluk).	1,001 7 2	.....	8a, share of the joint mehal.	Dina Nath Bhuttacharjya	500 11 7	... ..	173 1 4
642	Pergunnah Amarsi, mehal Jadubar *alias* Narabusan, thana Pataspur.	907 12 3	....	9a. 11g 3k. 2*kag*. share of the entire joint mehal.	Premchand, Ishan Chandra Bera and others.	543 4 5	.....	16 9
681	Pergunnah Kellee Kasijora, mehal Janabar, thana Panskura.	1,252 9	Entire ..	.....	Kamda Charan Pal, Aiman Nessa Bibi and others.	.....	1 1 3	.....
691	Pergunnah Taruf Jamna, mehal Jamna, thana Sabung.	1,598 14 2	.....	6a. 1g. 3k. 2 *kag* share of the entire mehal.	Joint share Nemai Charan Dey.	607 14 4	.....	211 2 4
740	Pergunnah Sabung, mehal Khelnachota, thana Sabung.	715 5 10	Entire ..	... .	Nemai Chand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	149 7 10	.....
804	Pergunnah Kasijora, mehal Kolagechya (thana Panskura Tamluk).	1,149 8 7	.....	Joint property 12a. share of mouza Kollagechya.	Chandhori Nando ...	780 2 10	.....	268 14 10
810	Pergunnah Kellee Kasijora, mehal Kesapat, thana Panskura.	800 6 2	Entire...	.....	Brojo Das Dutta	.....	275 3 3	.....
841	Pergunnah Moynachor, mehal Kripanandopur, thana Sabung.	673 8 7	Do. ..	.....	Natabur Das Adhikary, Godadhur Das Adhikary and others.	... ..	230 15 11	.....
889	Pergunnah Moynachor, mehal Kheral, thana Sabung.	3,951 4 3	... ..	14a. 8g. 3k. share of the joint mehal.	Dinabundha Nandi, Nemai Chand De and others.	3,370 1 5	.....	1,076 11 11
				No. 1, separate account, 1a. 11g. 1k. share of the entire mehal.	Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	581 2 10	.....	199 4 10
1034	Pergunnah Kasijora, mehal Nohna Kuwar Chuk, thana Panskura.	1,172 14 0 with police.	Entire...	....	Nemai Chand Dey and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	402 9 0	.....
1046	Pergunnah Sabung, mehal Nandobar, thana Sabung.	667 9 11	Do. ...	.....	Rajlokchon, Modhusudhon Sabud and others.	.....	1 8 11	.....
1118	Pergunnah Shahapur, mehal Poponhori Choron *alias* Papon (thana Debra).	571 1 6 with police.	Do. ...	.....	Sridhor Charan Nandi	.....	195 15 5 with police.	.....
1230	Pergunnah Kismat Kasijora, mehal Ratalca (thana Panskura).	1,135 12 11 with police.	Do. ...	.....	Ditto ditto ...	.....	389 13 11 with police.	.....
1280	Pergunnah Moynachor, mehal Ramchondropur, thana Sabung.	1,300 13 9	.....	No. 1, separate account, 10a. 13g. 1k. 1kr. share of the mehal.	Brojo Das Dutta ...	867 8 10	.....	298 15 10
1331	Pergunnah Kasijora, mehal Sridhorbosan *alias* Dhuleara, thana Panskura.	1,486 13 6 with police.	.....	Separate account, mouza Sridhorbosan 1, mouza Dhuleara 8a.	Rabi Kesh Bose ..	893 13 8 with police.	.....	250 3 with police.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1430	Pergunnah Uttor Behar, mehal Shahrdahat *alias* Shahrda, thana Datoon.	3,171 4 8	.....	8*a.* 13*g.* share of the joint mehal.	Gopinath, Nando Lall Masanto and others.	1,173 13 7	.....	29 11 4
1500	Pergunnah Kasijora, mehal Uttorusutpur, thana Panskura and Tamluk.	3,505 3 1	.....	No. 8, separate account, 8*a.* share of mouza Uttor usutpur.	Nemai Chand Dey and Dasai Moni Dassi, mother and guardian of Sripoti Charan De, minor.	640 0 0	.. ..	134 1 0
	Temporarily-settled estate.							
46	Pergunnah Patnapur, mehal Dehat Gokulpur.	23,533 15 3	Entire...	.....	Gopendro Nondon Das Mohapatro.	... ..	307 15 8	.....
	Jalpai mehal.							
15	Pergunnah Taruf Biswan, mehal Gorahar, thana Khedgree.	814 0 0	Do. ...	.....	Proprietor Government tenant Durga Prosad Mirdha.	.....	279 13 0	.....

Dated Midnapur, the 21st February 1890. G. W. PLACE, for Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the undermentioned mehals and tenures borne in the towji of the district of Noakholly will be put up to public and unreserved sale at the Collector's office of that district, on Wednesday, the 26th March 1890, corresponding with 14th Choitra 1296 B S., for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1551	No. 14, Gayer makarari meadi (temporary) howla Abdul Rahaman in chur Shulukya, *alias* Sunya, chur pergunnah Bhoolooah.	505 15 11	Whole ...	....	Wazuddin Maghi ...		241 11 6	.....
1662	No. 80, Gayer makarari meadi (temporary) howla Azmatullah, Shubal Chandra Guha in chur Magdhara, pergunnah Sundip.	708 14 7	Do. ..	.....	Uma Charan Guha ...	....	26 0 0	.....
1671	No. 1, Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, Gayer makarari meadi (temporary) shadkari howla Anwaruddin, Kali Das, Modan Nath in chur Gazi, pergunnah Jazira.	1,849 5 9	Do. ...	.....	Izapah Maghi ...	.....	670 4 0	.....
1671	Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, No. 3, Gayer makarari meadi howla Mohammed Manwar, Mohammed Kalim, Akramaddin, in chur Gazi, pergunnah Jazira.	1,283 9 0	Do. ...	.. ...	Srimati Halimennessa Chowdhurany.	.....	519 10 6	.....
1671	No. 45, Gayer makarari meadi howla Sarfaddin, Kalimaddin, Sua Gazi, Kachim No. 279 Dakhal in chur Gazi, pergunnah Jazira.	555 9 7	Do. ..	.....	Azimaddin Patwari, Anursan Bibi, mother and guardian of Aminullah and Mofil, minors, Chuny, Moti Meah, Kachim	.....	102 2 1	.....

Karimunnessa, Munsarali, Samadali, Tasamaddin, Umedali, Manoo Meah, Abdul Meah, Fazarally, Halimennessa, Kadirbaksh, anbaksh Amzad, Asabaddy Monharali.

Noakhally Collectorate, the 16th February 1890. C. R MARRIOTT, Offg Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned mehal, borne in the towji of the district of Noakholly, will be put up to public and unreserved sale at the Collector's Office of that district on Wednesday, the 26th March 1890, corresponding with 14th Chaitra 1296 B S., for arrears of revenue recoverable under the law in force due for kist 28th September 1889:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate is to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
45	Kishmut Mohendra Narayan, pergunnah Shundeep.	637 1 11	Whole ..	.....	Chandra Mohan Nandy.	.....	109 7 3	.....

Noakholly Collectorate, the 16th February 1890. M. M. CHUCKERBUTTY, Dy. Collr., for Offg Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Sarun will be put up for sale at the Collector's Office of that district on the 17th March 1890, corresponding with 11th Cheyt 1297F. (Monday), for arrears of revenue and other demands due on 28th September 1889, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs A. P				Rs A. P	Rs. A. P.	Rs A. P
78	Deopur, pergunnah Ander.	3,309 12 10½	.....	*Iymals.*—16*a.* in mouzah Izara; 4*a.* in Patar; 4*a* in Pachbemia; 16*a.* in Deopur; 4*a* in Seari.	Rampria Saru ..	1,048 7 3½	...	338 0 8½
242	Siswa, pergunnah Ander.	321 5 4½	.....	*Iymals* 16*a* in mouzah Hoosaina; 16*a* in mouzah Siswa; 16*a.* in mouzah Kandh Paker; 16*a* in mouzah Bowandih; 16*a* in mouzah Kasila; 4*a.* in mouzah Meerpur Jitwar; 16*a.* in mouzah Uperwar; 16*a* in mouzah Moglaripur; 16*a.* in mouzah Harnathpur; 4*a.* in mouzah Chandouli Pata.	Sheikh Goolam Hoosein and others.	628 14 10½	.....	25 2 11½
324	Umdha Phakooli, pergunnah Bal.	1,040 0	.....	*Iymals.*—7*a.* in mouzah Umdha; 7*a.* in mouzah Phakooli.	Ram Govind Sahoo and others.	975 0 0	.....	152 11 5
386	Bolesra, pergunnah Bal.	811 2 10½	.....	*Iymals.*—14*a.* 8*p* 5*k* 4*m.* 2*d.* 19*kag.* in mouzah Bolesra.	Kerat Chand Mohto.	744 11 10½	.....	4 0 9½
657	Khaira Kuchnar, pergunnah Bal.	5,048 12 9½	Whole estate	.....	Gunga Parshad Singh and others	.....	0 2 3	.... .
724	Mirzapur, pergunnah Bal.	1,546 10 8½	... ..	*Iymali*—16*a.* in mouzah Mirzapur; 16*a* in mouzah Narown Narsinpur Mirapur Gopalpur; 16*a.* in mouzah Bunwari Basunt, 16*a.* in mouzah Rangadha; 16*a.* in mouzah Bakunthpur; 16*a.* in mouzah Gurgaju	Dil Raj Singh and Barmha Singh and others.	1,138 1 8½	.....	0 1 5½
830	Rusulpur, pergunnah Bal.	1,296 0 0	... .	*Iymals.*—16*a.* in mouzah Belk nda; 8*a.* 6*p* in Bishunpur; 1*a* in Parsa; 16*a.* in Chandpura; 8*a.* 6*p.* in Chhitrowlia; 16*a* in Rampur Nurnaggar; 8*a.* 6*p* in Rusulpur; 8*a.* 6*p.* in Saria; 8*a* 6*p* in Kotnea; 1*a* 6*p* in Mirzapur; 8*a* 6*p.* in Manikpur.	Baboo Chandreswur Persad Narian Singh.	696 9 8½	.....	28 8 10½
1781	Shampur, pergunnah Baral.	1,013 3 3	....	*Iymals.* 12*a.* in mouzah Semerdeh; 8*a* in mouzah Shampur; 16*a.* in mouzah Shampur Talah Doem; 8*a.* in mouzah Bulapati; 16*a* in mouzah Sultanpur; 8*a.* in mouzah Sheikhpur.	Shunker Parshad and others.	547 7 2	.....	34 10 10
2715	Karar Mahamedpur, pergunnah Gos.	724 15 0	Whole estate.	.....	Ram Parshad Sahoo, Gunga Parshad Sahoo and others	.. ..	339 9 9	.....
2763	Sagoonl *alias* Burghi, pergunnah Gos.	1,536 0 0	.. ..	*Iymali*—13*a* 9*p.* in mouzah Sagooni; 12*a.* 9*p* in mouzah Burghi, 12*a.* 9*p* in mouzah Chandpara; 13*a* 9*p.* in mouzah Harakhpara; 16*a* in mouzah Lorna; 13*a.* 9*p.* in mouzah Rajmata Mokimpur; 13*a* 9*p* in mouzah Sonepatia.	Ram Namaj Kuer and Ram Sarun Singh, &c.	1,394 7 11½	.. .	7 2 7
2872	Sondhani, pergunnah Gos.	6,866 1 11	... ..	*Iymals* share	Durga Singh and Jado Lal.	837 5 5	.....	213 10 0 2 *poosa.*
2935	Kharika, pergunnah Kasmir.	612 2 4½	Whole estate.	.. . ...	Sugao Ali Khan and Jamao Ali Khan and others	.....	100 11 4½	.....
3175	Salehpur, pergunnah Kasmir.	1,119 0 0	Ditto .	. .....	Ram Parsun Singh, auction purchaser	.....	201 13 0	.....
3176	Ditto	649 0 0	.....	*Iymals*—16*a* in mouzah Salehpur Dara-Sikah; 16*a* in mouzah Chander Chanpur, 16*a.* in mouzah Chak Chhiter Madhooker.	Iadaruth Tewari, auction pur chaser.	604 0 0	.....	113 4 0
3177	Ditto ...	650 0 0	.....	*Iymali.*—16*a* in mouzah Salehpur Dara-Sikah; 16*a.* in mouzah Chander Chanpur; 16*a* in mouzah Chak Chhiter Madhooker.	Shoo Karun Singh, auction purchaser.	605 0 0	... ..	113 6 11½
3472	Doomria, pergunnah Madhul.	533 5 4	Whole estate	. . ..	Thakur Parshad Singh and others	. ..	55 13 6	.....
3543	Indai, pergunnah Manjhi.	633 9 7	.....	*Iymali*—13*a.* 16*p* 1*k* in mouzah Indai.	Ram Anagrah Rai and Ram Baran Rai, and others	546 15 8	.....	32 12 0
3649	Lachhipur, pergunnah Narhun.	2,026 10 8	Whole estate	... .	Laloo Singh and Fetch Narain Singh and others	.....	0 0 4½	.....
3662	Jira-Dai, pergunnah Pachlukh.	624 1 3½	Ditto	.. .. ..	Mussamut Raghoobunsi Kuer and others.	.....	7 3 1	... ..
3694	Biscompur Mehna, pergunnah Sipah.	777 15 2½	Ditto	.. ..	Baboo Janki Parshad Sahee and Bhairo Parshad Sahee and others	... ..	0 2 2½	.....

Sarun Collectorate, the 22nd February 1890.

RAGHU NATH SHAHI, Dy. Collr, for Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Cuttack will be put up for sale at the Collector's Office of that district on the 7th April 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

Touji No.	Name of mehal and pergunnah	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors.	If a share is to be sold, the sudder jumma of such share or shares.	If the whole estate is to be sold, the arrears due from it.	If a share is to be sold, the arrears due from such share or shares.
		Rs A. P.				Rs A. P.	Rs. A. P.	Rs A. P
59	Kismut talook Kalimegha, pergunnah Jajpoor.	1,198 7 4	.....	Out of the estate kismut, 11a 9p 15k 2d 10g. share of Ananta Panda and others.	Ananta Panda, Kanahai Panda and others	891 2 0	.....	9 0 5
656	Kismut mouzah Nagapur, pergunnah Suhang.	928 13 7½	.....	Out of the estate kismut, 15a 2p 9k 2d 12g 2kaurs share of Chaudhari Juggernath Santra Mahapater and others.	Kripa Sindhu Chaudhari and others.	832 11 0	.....	1 5 7½
742	Kismut mouzah Barahipur, pergunnah Sughunda	531 4 10	Whole estate	.....	Gobind Chandra Paharaj and others	.....	16 7 7	.....
744	Talook Manda, pergunnah Sughunda.	1,615 14 1	Ditto ..		Juggernath Santra Mohapater and others.	.....	23 6 2	.....
1328	Talook Upper Barnan, pergunnah Barnan.	590 4 9	Ditto .	.....	Daya Nidhi Dubai and others.	.....	20 7 10	.....
1981	Kismut mouzah Altpur, pergunnah Kodinda.	655 10 6	.....	Out of the estate kismut 14 annas share of Radha Madhob Santra and others.	Radha Madhob Santra and others	573 11 2		81 2 3
2034	Kismut talook Rajhunga, pergunnah Kodinda.	1,695 3 10	Whole estate	..	Radha Madhob Santra, Hurra Kristo Mohanty and others.	.....	211 14 3	...
2071	Talook Sree Sanderpur, pergunnah Silo	940 2 0½		Out of the estate kismut 13 annas share of Kasi Nath Dass and Surja Mani Dia and others.	Syed Abdul Kadar and others.	706 5 7½	.....	20 7 4½
2498	Talook Bisnabar, pergunnah Sakhrabad	2,893 1 11	Whole estate	.	Radha Madhob Santra and others		250 11 8½	..
2737	Mouzah Kantiaal, pergunnah Kata.	505 10 2	Ditto	.....	Kanhoo Charan Chaudhary and others.	.....	3 5 4	...
35 5	Kismut mouzah Narigan, pergunnah Katia.	729 14 7	Ditto		Janardan Mahapater and others.	.	1 14 11	..
3844	Talook Balabhadra, pergunnah Tikan	1,106 12 4½	Ditto ..	..	Chaudharanee Madha Dei, grandmother and guardian of Madan Mohan Das, minor.	.....	191 12 8½	.....

Cuttack Collectorate, the 20th February 1890. A C SEN, for Collector

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Burdwan, will be put up for sale at the Collector's Office of that district on 27th March 1890, for arrears of revenue and other demands, due on the 12th January 1890, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold the arrears due from it.
		Rs A. P.				Rs A. P.	Rs A. P	Rs A P
21	Mahata, pergunnah Monohurshahy.	11,686 5 7	.. ..	The parent estate, the sudder jumma of which is Rs 10,310-6-4 will be sold The separate account share of the estate, the sudder jumma of which is Rs. 1,375-15-3, will not be sold.	Chandkumari Debi and others.	10,310 6 4		289 12 7
59	Mohunpur, pergunnah Bagha	1,613 7 11	The whole estate		Jabakristo Mukhopadhya, guardian on behalf of minor Upendra Narain Mukhopadhya.	... ..	538 5 6	..
62	Palsona, pergunnah Dhama.	7,460 11 11	..	The parent estate, the sudder jumma of which is Rs 5,560-10-1 will be sold The separate account share, the sudder jumma of which is Rs 1,840 1-10, will not be sold	Harak Chand Golachha and others.	3,560 11 1	... .	23 6 2
5.74	Salkuni pergunnah Burdwan	1,693 11 5	..	The parent estate, the sudder jumma of which is Rs 1,256 5-7, will be sold. The separate account share, the sudder jumma of which is Rs 437-2-10, will not be sold.	Sheik Alim Ullah and others.	1,256 5 7	.	301 0 6

Burdwan Collectorate, the 28th February 1890. H. F J. F. MAGUIRE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Patna, will be put up for sale at the Collector's Office of that district on 31st March 1890, corresponding with 25th Chyet 1297 F.S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 18th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2	Alipur Dhongawan, pergunnah Telladha.	1,832 11 9	.....	5a. 6d. 15k. ..	Mussamut Jharakha Kuer and others, non-applicant.	447 11 9	.	5 13 6
				A. D.				
3	Bhelwa Barhri, &c., pergunnah Rajgir.	2,297 11	.....	Bhelwa ... 5 10 Barhri ... 5 10 Dumri ... 5 10 Chak Rasul 5 10 Chak Sorubi 5 10	Shaikh Chowdhri Zohurul Hoq and others, applicant for separation of account.	789 13 0	.....	16 7 9
4	Bhooski, pergunnah Bairatpur.	881 9 2	Whole ...	.....	Bajrang Persad and others.	.....	0 0 11	.....
12	Bakipur Goruk, pergunnah Azimabad.	1,360 8 3	Do. ...	.....	Babu Nonit Lal and others.	.....	138 3 0	.....
17	Indont, pergunnah Shahjehanpur.	1,015 0 0	Do. ...	.....	Syed Amed Hosain and others.	.....	39 10 4	.....
37	Bara Chak Bara, pergunnah Telladha.	800 8 6	.....	10a.	Sookhoo Sah and others, non-applicant.	500 5 3	..	0 0 7
40	Buzidpur Partha, pergunah Telladha.	533 5 4	.....	9a. 8p.	Mussamut Jhorokha Kuer and others, non-applicant.	322 3 8	.....	9 11 5
47	Hisah Chowsanda, pergunnah Biswak.	906 10 8	.....	5d.	Mussamut Sharifan, applicant for separation of account.	14 2 9	..	3 8 8
47	Ditto ditto ..	906 10 8	.....	7d. 10k.	Mussamut Shakran, for self and guardian of Mussamut Badlan, applicant for separation of account.	21 4 0	.....	5 5 0
47	Ditto ditto ...	906 10 8	.....	6a. 0d. 16k. 13b. 6pk. 17r.	Mulcek Zohurul Hoq and others, non-applicant.	342 5 0	.....	22 13 1
59	Dyalpur, pergunnah Pilich.	2,429 4 3	.....	Dyalpur, 10a. 0d. 11k. 15b. 18pk. 1or. Bhagwantpur Utra, 10a. 4d. 5k. 19b. 18pk. 1or. Mohesbpur, 10a. 4d. 11k. 17b. 3pk 16r. 10f. Chak Astha, 10a. 1d. 8k. 9b. 5pk. 10r. Patasong Bandob, 10a. 8d. 5k. 2b. 3pk. Tharthori Khurd, 10a. 15d. 8k. 13b. 1pk. 10r. Lodipur Teni, 10a. 4d. 11k. 13b. 8pk. 16r. 10f	Mussamut Tara Kuer and others, non-applicant.	1,658 5 10	.....	1 8 8
69	Charni, pergunnah Shahjehanpur.	1,620 0 0	.....	10a. 10d.	Mussamut Monirun and others, non-applicant.	1,063 12 0	.....	0 6 2
69	Poona Chhariahri, pergunnah Pilich.	1,068 12 10	Whole ...	....	Babu Behari Lal and others.	.....	23 6 4	..
70	Gobindpur Birhna, pergunnah Bhimpur.	624 0 0	. ....	.....	Tafazul Hosain and others	. .	1 0 0	... ..
101	Kapsawan, pergunnah Pilich.	1,813 6 1	.....	14a. 8d. 12k. 13b. 15pk.	Syed Mozibar Rahman, manager of the estate of Debi Persad, lunatic, applicant for separation of account.	1,635 2 10	.....	150 10 6
101	Kanseawan, pergunnah Pilich.	1,813 6 1	.....	1a. 11d. 7k. 6b. 5pk.	Mahabir Persad Singh and others, non-applicant.	178 4 1	.....	9 12 9
126	Ghosetawan, pergunnah Biswak.	659 8 11	.....	10a. 11d. 19k. 11b 18pk. 9t. 2 til-wasi.	Syed Kazim Ali and others, non-applicant.	436 13 8	...	7 12 3
135	Khajura, pergunnah Shahjehanpur.	1,495 14 6	Whole ...	.....	Mussamut Sharfan and others.	. ....	75 9 2	..
136	Panwarah, pergunnah Pilich.	872 12 1	Do. ...	.....	Lachman Persad and others.	.....	217 12 7	..
140	Korari Hajipur, pergunnah Shahjehanpur.	1,281 1 1	Do. ..	...	Shaikh Khoda Bax and others.	..	261 4 3	.. ..
147	Kasbeh Barhowna, pergunnah Pilich.	5,718 0 0	.....	Kasbeh Barhowna, 12a. 5d. 2k. 1b. 1pk. 10r. Karul, 10a. 6d. 15k. 16b. 16pk. 10r. Barara, 12a. 17d. 10k. 2b. 7pk. 10r Ahrawan, 12a. 17d. 10k. 2b. 7pk 10r. Bahhaniawan, 13a. 5d 2k. 10b. Athabaipur Pathana, 13a. 5d. 2k. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kifait Hosain and others, non-applicant.	4,490 10 10	.	447 4 10
154	Rampur Tiru, pergunnah Pilich.	503 7 6	Whole ...	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Persad Singh and others.	... ..	0 3 6	.....
187	Shaik Mohomedpur, pergunnah Bhimpur.	592 14 0	.....	1a.	Wazir Ali, applicant for separation of account.	37 1 0		8 15 11
187	Ditto ditto ...	592 14 0	... ..	11a.	Mussamut Suliman and others, non-applicant.	407 9 6	.....	92 10 2
188	Makhdumpur Kasba, pergunnah Biswak.	604 6 5	.....	2a. 6d. 12k. 19b. 10pk.	Shaikh Khurshedali and others, applicant for separation of account.	101 3 8	....	20 2 11
188	Ditto ditto .	604 6 5	... ..	1a.	Mussamut Rohiman, applicant for separation of account.	43 6 6		10 13 6

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
188	Makhdumpur Kasba, pergunnah Biawak.	694 6 5	.....	19d. 8k. 2b. 14ph. 5r.	Tika Rout and others, non-applicant.	42 0 7	.....	4 11 7
200	Mustafapur Arrawan, pergunnah Shahjehanpur.	1,261 1 1	Whole ...	.....	Mussamut Bibi Sharfan and others.	.....	215 15 5	.....
207	Ghoserawan, pergunnah Behar.	1,935 9 0	.....	10a. 4d. 15k. 18b. 11ph. 3r.	Syed Karamat Hosain and others, non-applicant.	1,270 11 5	.....	1 15 9
				Ans.				
235	Akbarpur Bhadwar, pergunnah Masondha.	3,215 10 9	.....	Akbarpur Bhadwar ... 16 Panauhi ... 16 Dorawan ... 4 Shorampur... 16 Sherpur ... 16 Hushanpur Lachman... 16 Mominpur Nadawana 16 Mosumpur Bandauli ... 16 Chak Shamsuddin ... 16 Kodera .. 16 Katari Billori ... ... 16 Ranapur ... 16 Paigampur ... 16 Shibdaspur Kurkuri ... 16 Jadopur ... 16 Muazamabad, Bali Pakar ... 16 Dariapur Amani ... 16 Sikaria ... 16 Parsurampur Hir ... 16 Jalalpur Rishi ... 16 Ranipur Misrowli ... 16 Kishopur ... 16 Shazadpur Mori ... 16 Atapur Rukun ... 16 Alampur Jarkha ... 16 Radhunathpur Mori ... 16 Saidabad Bisram ... 16 Bela Govindpur ... 16 Patranga ... 16 Ahmedabad Khania ... 16 Bali Patowna ... ... 16 Patowna ... 16 Raghunathpur Jagbandan ... 16 Korikisho ... 16 Kishopur ... 16 Masondhakhas ... 16 Harinagar ... 16 Nasirpur Bisa ... 16 Bihta ... 16 Abdullapur Khankuli... 16 Ganga Chak Mal Nazumpur ... 16 Baldpur ... 16 Mahomed Khanpur Dorab ... 16 Fazilpur Patan ... 16 Ibrahimpur 16 Adampur Ganga ... 16 Parsurampur Kanak 16 Bishunpur Manshahi... 16 Saroute ... 16 Kuranpura... 16	Babu Sheonandan Persad and others, non-applicant.	2,604 11 10	.. ..	14 0 1
301	Mustafabad Asarhi, pergunnah Teliadha.	883 12 0	Whole ...	... ...	Shaikh Fazloor Rohoman	.....	110 8 2	.....
337	Muradpur Bind, Fatehpur Bind, pergunnah Behar.	802 2 0	Whole ...	.....	Chuttrawan Singh and others.	.....	0 5 7	.....
338	Khodaboxpur, pergunnah Azimabad.	3,236 0 7	.....	Gangapur, 1a. 10d. Barin Khurd, 1a. 10d. Bhagwanpur, 1a. 10d. Rukunpur, 1a. 10d. Mohomedpur, 1a. 10d. Dalanpur, 1a. 10d.	Bishan Sahai, applicant for separation of account.	110 1 8	.....	20 8 8
338	Ditto ditto ...	3,236 0 7	.....	Pir Mohomedpur Dears, 16a.	Jagoo Lal Upadhia and others, non-applicant.	473 10 7	.....	32 14 11

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
427	Akbarpur Kurtha, pergunnah Telidha.	863 5 4	.....	5*a.* 4*p.*	Raj Bahadur Singh and others, non-applicants.	284 7 1	....	0 3 5
429	Kasbeh Sherepur, pergunah Manair.	2,615 10 11	.....	8*a.* 13*d.* 4*k.* 5*b.* ...	Mussamat Hamidunnisa and others, non-applicants.	1,415 13 3		61 2 3
473	Mustafapur Arai, pergunnah Sauda.	707 13 10	.....	4*a.*	Syed Wajid Hosain and others, applicants for separation of account.	199 7 5	.....	49 14 0
478	Utarnawan Buzurg, pergunnah Behar.	2,393 0 0	.....	9*a.* 15*d.*	Syed Ahmed Hosain and others, non-applicants.	1,415 0	.....	11 13 9
556	Kishanpur Kurowla, pergunnah Gyaspur.	781 0 0	.....	14*a.* 10*c.*	Khajih Syed Hosain and others, non-applicants.	685 6 5	.....	0 0 3
724	Jehangirpur Mongarpal, pergunnah Manair.	2,316 4 4	...	1*a.*	Rai Monohar Lal and others, applicants for separation of account.	144 13 3	.....	0 1 3
724	Ditto ditto ...	2,316 4 4	.....	15*d.*	Seetapat Sahai and others, applicants for separation of account.	108 10 0	.. ..	0 15 5
724	Ditto ditto ..	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 15*b.* ...	Mussamat Sriana Kuer and others, non-applicants.	230 7 1	.....	14 12 10
726	Yakubpur Tungi, *alias* Fateh Ali Chak, pergunnah Behar.	651 0 0	.....	9*a.* 10*p.* 8*c.* 8*m.* ..	Syed Mahomed Ismile and others, non applicants.	401 8 0	.....	86 4 11
			2nd Kind.					
733	Arazi Towfir Rampur Ghoshur, pergunnah Manair	1,236 5 11	Whole ..	....	Srikewal Singh		1,483 6 2	....
742	Arazi Beshi Deara Mohazi Jehangirpur, Mongarpal, pergunnah Manair.	1,561 8 3	.....	3*a.* 11*d.* 13*k.* 6*b.*	Moulvi Abdul Karim and others, applicants for separation of account.	520 8 1		90 9 3
743	Ditto ditto ...	1,561 8 3	....	2*a.* 3*d.*	Kishandyal Lal and others, non-applicants.	219 11 4	. ..	5 6 1
778	Sahmawan, pergunnah Gyaspur.	1,403 11 11	.....	.....	Mussamat Sharfan and others.	.....	373 6 10	.

PATNA COLLECTORATE, BANKIPORE, the 28th February 1890. C. J. S. FAULDER, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Jessore will be put up for sale at the Collector's Office of that district on the 8th April 1890, corresponding with 27th Chaitra 1296 (B.S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
0	Anpara, pergunnah Isafpur	599 6 11	Whole.	.....	Syama Charan Ghosh and others.	.....	87 6 8	.. ..
193	Madhupur, pergunnah Mahamed Sahi.	539 1 8	.....	Share No. 1 .	Hari Nath Basu and others	129 10 5	.....	2 13 6
288	Sidhupasa, pergunnah Isafpur	2,335 4 7	.....	Do. ,, 1 ...	Mukta Kesi Chaudhurani.	467 1 0	.....	135 13 0
288	Ditto ditto ..	2,335 4 7	..	Do. ,, 2	Gopeshur Pal Chaudhury.	467 0 11	. ...	135 12 9
288	Ditto ditto ..	2,335 4 7	.. .	Do. ,, 3 ...	Ditto ditto	467 0 11	. ...	135 14 2
288	Ditto ditto ...	2,335 4 7	.....	Do. ,, 4 ...	Chandi Mani Chaudhurani.	934 1 9	.....	271 11 4

Jessore Collector's Office, the 1st March 1890. C. J. O'DONNEL, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates, in the district of Rajshahye, will be put up for sale at the Collector's Office of that district on 27th March 1890, Thursday, corresponding to 15th Chaitra 1296 B S., for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	
Towji No	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs A. P.
807	Kismut pergunnah Dhamin.	4,300 2 0	.. ...	Excluding the share for which separate account has been opened.	Gokul Chandra Chowdhury, and Sayad Abdul Selam.	1,983 5 0	.....	13 13 0

Rajshahye Collectorate, the 21th February 1890. O. C. CHATTERJEE, Deputy Collector in charge.

NOTICE is hereby given that the undermentioned plots of land no longer required by Government, situated along the western or Bettiah extension of the Tirhoot State Railway in the district of Chumparun, will be put up to sale on Monday, the 21st April, and following days, at Motiharee.

The purchasers of the plots will be subject to the following conditions:—

1*st*.—The purchasers will have no power to make any excavation on the land nearer than fifteen feet from the railway fencing, or plough it closer than three feet from its foundation.

2*nd*.—If the amount of purchase-money does not exceed Rs. 100, the whole amount to be paid down at once.

3*rd*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by the fifteenth day after the sale, reckoning the day of the sale as one, or if the day be a close holiday, then by the noon of the first succeeding office day, the sale to be cancelled, the sum deposited being forfeited to Government, and the land to be again put up for sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

4*th*.—The plots will be sold revenue-free to the highest bidders.

5*th*.—The purchasers shall be put in possession on receipt of the orders of Board approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive lot number.	Name of zillah.	Pergunnah and mouza.	Number of mile on which land is situate.	Situated on which side of the railway.	Approximate area of lot in bighas and in acres.		Land excluded from sale from each lot.		Commencement and termination of lot.	Boundaries of lot
					B. K. CH.	A. R. P	Reasons for exclusion.			
51	Chumparun ...	Parsouni, Mehsi, pergunnah	85	East	. ...	0 35	...	... .	From the end of lot No. 49	East—Railway A class land. West—Zemindari land. North—Village. South—Lot No. 49, village Bishunpore Kateea.
52	Ditto ...	Chak Bara	85	West	.....	0 1 9	.....	.. ...	From boundary of village Parsouni to the termination of the lot as per plan.	East—Zemindari land and village boundary. West—Railway A class land. North—Village lands.
53	Ditto ...	Ditto	86	Do.	.....	1 3 8	.....	.....	From the termination of lot No. 52 to the boundary of the village.	South—Lands of village Parsouni West—Zemindari land. East—Railway A class land.
54	Ditto ...	Ditto	86	East	... ..	1 0 32	.....	. ....	From chainage No. 456½ to the boundary of the village.	North—Boundary of village Koorsah. South—Village Chakbara. West—Railway B class land.
55	Ditto ...	Kasmarpore	91	West	...	0 3 6	.....	.....	From village boundary to the commencement of lot No. 56.	East—Zemindari land. North—Boundary of village Koorsah. South—Zemindari land.
56	Ditto .	Ditto	92	Do.	.....	1 3 6	... .	. ..	From termination of lot No. 55 to the boundary of village Koorsah.	West—Zemindari land. East—Railway A class land. North—Lot No. 56.
57	Ditto ...	Ditto	93	East	.....	1 2 34	... .	.....	From boundary of village Ramgudhwa to the boundary of village Koorsah.	South—Village boundary. West—Zemindari land. East—Railway A class land.
58	Ditto ...	Chandsarse	96	Do.	.....	0 0 14	.....	.. ...	From boundary of village Punditpore to the boundary of village Madhochupra.	North—Boundary of village Koorsah. South—Lot No. 55. West—Railway A class land.
59	Ditto ...	Loknathpore	107	West	.....	1 3 26	.. ...	.....	From boundary of the village to the boundary of village Semra.	East—Zemindari land. North—Village boundary of Koorsah. South—Boundary of village Ramgudhwa.
60	Ditto ...	Ditto	107	East .. .	.	1 3 23	.....	. ..	Ditto ditto ...	West—Railway A class land. East—Railway A class land. North—Boundary of village Madhochapra.
61	Ditto ...	Barubroopia	115	West	. ....	0 2 25	.....	.....	From boundary of the village to the commencement of lot No. 63.	South—Ditto Chandsariah. West—Zemindari land. East—Railway A class land. North—Boundary of village Semra. South—Ditto of the village. West—Railway A class land. East—Zemindari land North—Boundary of village Semra. South—Ditto of the village West—Zemindari land. East—Railway A class land. North—Lot No. 63. South—Boundary of the village.

62	Ditto ...	Ditto	115	East	.....	0 1 39	.....	.....	From boundary of the village to the commencement of lot No. 64.	West—Railway A class land. East—Zemindari land. North—Lot No. 64. South—Boundary of the village.
63	Ditto ...	Ditto	116	West . .	.....	1 0 28	. .	.....	From lot No. 61 to the commencement of the zemindari land.	West—Zemindari land. East—Railway A class land. North—Zemindari land. South—Lot No. 61.
64	Ditto .	Ditto	116	East	...	1 3 35	..	.....	From lot No. 62 to the village boundary.	West—Railway A class land. East—Zemindari land. North—Boundary of village Bahoosarwa. South—Lot No. 62.
65	Ditto ...	Shampore	120	West	.....	1 0 21	...	.....	From the village boundary to the boundary of village Baithoonia.	West—Zemindari land. East—Railway A class land. North—Boundary of village Baithoonia. South—Village boundary.
66	Ditto ...	Ditto	120	East	.....	1 0 9	.... .	.. ...	Ditto ditto ...	West—Railway A class land. East—Zemindari land. North—Boundary of village Baithoonia. South—Village boundary.
67	Ditto ...	Majhawlia	122	West	.....	0 3 17	. ....	.....	From the village boundary to the commencement of lot No. 68.	West—Zemindari land. East—Railway A class land. North—Lot No. 68. South—Village boundary.
68	Ditto ...	Ditto	123	Do.	.....	0 2 12½	.....	.....	From lot No. 67 to the commencement of lot No. 69.	West—Zemindari land. East—Railway A class land. North—Lot No. 69. South—Lot No 67.
69	Ditto ...	Ditto	123	Do.	.....	1 1 21½	. ...	.....	From lot No. 68 to the commencement of lot No. 70.	West—Zemindari land. East—Railway A class land. North—Lot No. 70. South—Lot No. 68.
70	Ditto ...	Shampore	123	Do.	.....	0 1 20	.....	. ....	From lot No. 69 to the boundary of village Mahiuddinpore.	West—Zemindari land. East—Railway A class land. North—Boundary of the village Mahiuddinpore. South—Lot No. 69.
71	Ditto ...	Ditto	123	East	.....	0 0 18	.....	.....	From zemindari land in the west to the zemindari land in the east.	West—Railway A class land. East—Zemindari land. North— Ditto. South— Ditto.

Chumparun Collectorate, Motiharee, the 28th February 1890.

A. W. B POWER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Bhagulpore will be put up for sale at the Collector's Office of that district on Monday, the 31st March 1890, corresponding with the 25th day of Chaitra 1297F.S., for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Rampur Taluqa, pergunnah Bhagulpur, thana Sultangunj	1,440 10 0	..	The residue ijmali share of which separate account has not been opened.	Nand Lal Pandy and others.	351 15 0	.....	6 0 0
95	Mandar Tappah, pergunnah Bhagulpur, thana Banka.	1,706 12 0	.....	10g. mouzah Pairasli, 10g Jhajha, 16g. Makawar, 16g. Kalatpur. The residue ijmali share of which separate account has not been opened.	Tarni Pershad Misser, &c.	5 0 0	.. ..	2 8 0
					Khudun Lall, &c. ..	227 12 0	.. ...	97 0 0
334	Bisbitti, pergunnah Chye, thana Kishengunj.	589 6 0	.....	1a. 10g. share	Ganga Ram Kumar, &c.	55 6 0	.....	6 14 0
335	Bikrampur Chakrami, taluqa Nisf, pergunnah Chye, thana Bihpur.	7,711 15 (	.. ..	Mouzah Jamaluddinpore 10g, Bishenpur Gopal Lekwajpur 8g., Bishenpur Auri 3g. 1e 1k, Syad Nuruddinpur 3g 1e. 0k. 1d., Bannudat Jalkar, Deara Jalkar, Ganga Charan Jalkar, Parsuram Jalkar, Kali Das Jalkar, 2g 2c.	Dilsukh Ram Mandwari.	23 2 0	.....	2 15 0
				The residue ijmali share of which separate account has not been opened.	Apachh Kumar, &c...	610 0 0	.....	1,369 13 0
379	Masum Nawas Kisnut, pergunnah Chye, thana Kishengunj.	703 15 0	.....	The residue ijmali share of which separate account has not been opened.	Singheswar Pershad, &c.	352 0 0	.....	132 0 0
384	Nagarparah Kismut, pergunnah Chye, thana Bihpur.	877 15 0	Whole	.. .	Rajbati Kumri .	.....	109 4 0	.....
386	Ditto di to ..	645 11 0	...	5a. 4p share	Rajbuti Kumri ..	215 4 0	.....	26 2 9
				The residue ijmali share of which separate account has not been opened.	Santokhi Rai, &c. ...	215 3 0	..	0 4 0
460	Bhagwanpur taluqa, pergunnah Nesankhpur Kurah, thana Supaul.	1,263 1 0	.. ..	Ditto ditto ...	Radha Singh, &c.	271 5 0	.....	109 9 0*
471	Gangapur Rajnigote taluqa, pergunnah Nesankhpur Kurah, thana Madhepurah.	11,254 2 0	.....	8a. share	Rakhal Rai ...	2,109 5 0	.....	791 0 0
				6p. share	Fakiruunnissa .. .	351 9 0	.....	131 13 0
472	Sarowni Kalan, pergunnah Nesankhpur Kurah, thana Keshengunj.	851 3 0	.... .	2a mouza Sarowni Kalan ..	Lakhbuti Kumri ..	77 8 0	.....	29 1 0
				The residue ijmali share of which separate account has not been opened.	Jagarnath Ram, &c .	542 9 0	.. .	203 7 0
532	Thalha, pergunnah Naraidigar, thana Supole.	1,034 3 0	...	4g. 2c. 2k 18kr., mouzah Thalha...	Ghansham Singh Jha	3 5 0	.....	1 4 0
				The residue ijmali share of which separate account has not been opened.	Ditto ditto	93 4 0	... ..	35 5 0
558	Faridpur, pergunnah Chhai, thana Kotwali.	668 11 0	Whole .	...	Rajbuti Kumri .	.. .	293 5 0	...
3193	Maheshpur taluqa, Banahrsh kismut, pergunnah Bhagulpur, thana Amarpur.	1,534 11 (	.....	The residue ijmali share of which separate account has not been opened.	Gajadhar Pershad urf Gyadin.	767 6 0	.....	192 2 0
3851	Kalyanpur, pergunnah Dhaphar, thana Pratapgunj.	913 5 0	...	Ditto ditto ...	Khub Lal Sahu, &c...	627 14 0	.....	235 6 0
3863	Bhawanipore, pergunnah Dhaphar, thana Pertabgunj.	1,309 0 0	.....	Ditto ditto	Jamaluddin	144 7 0	.....	57 5 0
4105	Supole taluqa, pergunnah Malhnigopal, thana Supole.	503 13 0	Whole...	... .	Kishori Narain Singh, &c.	.....	0 4 0	.....

* This was sold on 16th September 1889, but appeal against this sale is pending.

Bhagulpur Collectorate, the 27th February 1890.

A. A. WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Shahabad will be put up to public and unreserved sale at the Collector's Office of that district on the 26th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Serial No.	Touji No.	Name of mahal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	62	Bokharapur, pergunnah Arrah.	2,666 10 8	.....	6a. 11p. 11k. 2m. 4d.	Baboo Raghunandan Prasad Pande and others.	1,160 8 1½	.....	19 15 10½
2	822	Gyanpur, pergunnah Arrah.	1,706 10 8	.....	8a.	Raghunandan Prasad Pande.	853 5 4	.....	133 5 4
						Radho Madho Prasad Pande.	853 5 4	.....	133 5 4
3	532	Pakri Tappa Kuderia, pergunnah Arrah.	2,265 9 7	.....	A. P. K. M. Pakri Chanda Chanderbhanpur 2 0 7 4	Ram Agyan Misir ...	360 15 10	.....	17 15 10
					Baghipankar ... 2 8 0 0				
					Rampore ... 2 8 0 0				
					Pakri Chanda Chanderbhanpur 3 2 8 0	Mahadeo Misir ...	418 13 10	.....	8 6 8
					Baghipankar ... 2 8 0 0				
					Rampore ... 2 8 0 0				
					Pakri Chanda Chanderbhanpur 1 11 0 10	Gopal Saran Misir and others.	647 11 10	.....	14 15 0
					Baghipankar ... 7 4 0 0				
					Rampore 10 0 0 0				
4	632	Salempore Persa, pergunnah Arrah.	4,000 0 0	Whole	.....	Baboo Bai Nath Sahai.	.....	1,000 0 0	.....
5	771	Toudir Kotwa Rampore, pergunnah Barahgawan.	1,080 0 0	.....	13a.	Jhagroo Pande and others.	877 8 0	.....	14 7 8
					Re.				
6	1291	Bhadwar, pergunnah Bhojepur.	534 6 5	.....	Baradhi 1	Hardyal Singh and others.	409 7 1½	.....	19 5 11
					Koodie 1				
					Itoundha 1				
					A. P. K. M. D. B. Usara ... 12 5 6 13 5 0				
					Chooramanpur 10 2 8 0 0 0				
					Bhadwar ... 12 1 12 0 0 0				
					Ramdiha ... 10 2 8 0 0 0				
7	1306	Karsand, pergunnah Bhojepur.	1,978 10 8	.....	Samasar ... 5 6 17 0 0 0	Sham Charan Singh and others.	5 9 1½	.....	1 10 0
					Nonfer ... 5 6 17 0 0 0	Moonl Singh and others.	778 3 1½	.....	283 8 0½
					Belwandia ... 14 6 4 8 13½ 0				
					Baradih 13 3 5 2 13 0				
					Parwandpore 7 4 17 15 8½ 0				
					Karsandkhas 7 4 10 2 7 14				
					Padaria ... 16 0 0 0 0 0				
					Sewaie ... 10 3 0 0 0 0				
					Katalpore ... 3 0 0 0 0 0				
8	1719	Indour Patti Girdharisingh, pergunnah Chowsa.	584 5 7	Whole	.....	Isri Rai and others ..	.....	1 1 0	.....
9	1720	Indour Patti Jia Singh, pergunnah Chowsa.	1,310 3 3	.....	Indour, 7a. 8p. 8k.	Oograh Rai and others	471 12 1	.....	160 5 7
10	2056	Tiwai, pergunnah Chowsa.	502 5 3 Mall 5a. mettarpha.	.....	7a. 9p. 10k.	Bhairo Rai and others	244 9 11½ mall	.....	61 4 1½
11	2080	Anraia Bheribhoosar, pergunnah Chainpur.	502 14 11½	Whole	.....	Sooraj Narain Singh and others.	.....	187 0 0	.....
12	2173	Bahera Kalan, pergunnah Chainpur.	808 12 10	.....	6a.	Ram Lal Rai and others.	190 12 9½	.....	35 5 2½
13	2329	Darouli, pergunnah Chainpur.	2,344 8 6	.....	Darouli 1a.; Bishunpura *alias* Datiaon 2a.	Bhagwati Singh ...	197 7 5½	.....	41 1 10
14	2332	Darwan Surat, pergunnah Chainpur.	1,066 10 8	.....	4a.	Girdhari Rai and others.	266 10 8	.....	83 5 11½
						Anar Rai and others ..	211 1 9½	.....	9 7 7½
15	2341	Damodarpore, pergunnah Chainpur.	723 3 2	Whole	.....	Bhola Nath Singh and others.	.....	53 4 1	.....
16	2356	Dandwa, pergunnah Chainpur.	804 10 9½	.....	5a. 4p.	Bali Ram Singh and others.	268 3 6½	.....	10 8 11½
17	2357	Daudkhili Mubarukpore, pergunnah Chainpur.	730 2 1	Whole	.....	Baboo Mahip Narain Singh and others.	.....	62 2 8	.....
18	2519	Hemrajpore, pergunnah Chainpur.	608 0 0	Do.	.....	Radha Mohun Persbad Pande and others.	.....	190 0 0	.....
19	2544	Isri, pergunnah Chainpur.	560 0 0	.....	15a.	Ram Lal Singh and others.	.....	33 4 3	.....
20	2560 »	Jigna Ghoordewa, pergunnah Chainpur.	703 11 9	Whole	.....	Ajodhya Singh and others.	.....	93 12 4	.....
					Rs. A P. K. M. D.				
21	2620	Karwandia, pergunnah Chainpur.	1,558 15 6	.....	Baghi 0 4 0 0 0 0	Mussamut Bhanika Kumari.	20 10 8	.....	6 12 6
					Pathra 0 4 0 0 0 0	Kunj Behari Singh and others.	33 5 4	.....	94 15 10
					Baghi 0 4 0 0 0 0	Hoormatah and others.	362 13 1	.....	406 8 7½
					Pathra .. 0 2 0 0 0 0				
					Hemrajpore with Sooraipoorapiperia. 0 8 0 0 0 0				
					Kusha Kayari ... 0 4 0 0 0 0				
					Kore Chowbe . 0 8 0 0 0 0				
					Lesha ... 0 2 5 6 13 5				
					Patedhi 0 4 8 0 0 0				
					Karwandia ... 0 4 0 0 0 0				
					Patti Chetha .. 0 8 0 0 0 0				
					Pathra 0 1 0 0 0 0				
					Kasha Chainpur ... 0 8 0 0 0 0				
					Sirsi 0 8 0 0 0 0				
					Mohamadpur . 0 8 0 0 0 0				
					Chandla 0 8 0 0 0 0				
					Sarae Maldah ... 0 8 0 0 0 0				
					Sohra Jairampur... 0 8 0 0 0 0				
					Noura 0 8 0 0 0 0				
					Ojhkirad 0 8 0 0 0 0				
					Kekda 1 0 0 0 0 0				
					Rampore 1 0 0 0 0 0				
					Jooharpur 1 0 0 0 0 0				
					Pattigaeah 1 0 0 0 0				

1	2	3	4	5	6	7	8	9	10
Serial No.	Touji No.	Name of mehal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
22	2632	Kalyanpur, pergunnah Chainpur.	538 5 4	Whole ...	.....	Deo Narain Singh and others.	.....	133 5 4	... ..
23	2774	Masondha, pergunnah Chainpur.	680 4 11	Do. ...	.....	Bal Krishna Singh and others.	.....	42 8 7	.....
24	2795	Mahoola, pergunnah Chainpur.	427 11 9	.....	Rs. A. P. K. M. Padri ... 0 1 0 0 0 Dighi ... 0 1 0 0 0 Mahoola ... 0 8 9 12 0 Nakhtawal ... 0 6 9 12 0 Tigua ... 1 0 0 0 0 Sodea ... 1 0 0 0 0	Ram Augrah Singh and others.	194 12 9½	.....	16 14 6
25	2878	Naoosan Jhouti, pergunnah Chainpur.	814 14 11	Whole ..	.....	Gopal Saran Singh and others.	.....	12 8 4	.....
26	2928	Pandepur, pergunnah Chainpur.	535 3 11	.....	Asoura ... ... 0 2 8 0 0 Do. ... ... 0 11 4 0 0 Machanhat ... 0 8 7 19 1 Machanhat ... 0 2 4 0 19 Pandepur ... 1 0 0 0 0	Dewan Rai and others Bakari Singh and others. Gya Narain and others Sheo Saran Singh and others.	60 3 1½ 255 13 2 69 8 6 43 1 6½	... .	1 12 10 27 7 8 5 4 6½ 7 12
27	2944	Pariari, pergunnah Chainpur.	1,527 7 6	Whole ...	.....	Baboo Radha Mohun Pershad Pande.	.....	477 5 5	
28	2953	Poosouli, pergunnah Chainpur.	560 0 0	.....	10a. ... ... 2a. ... ... 3a.	Ram Jatan Singh and others. Manboon Rai ... ... Bulwant Chobe .	350 0 0 70 0 0 105 0 0	....	35 12 6 56 8 0 59 2 10
29	3043	Sanwath, pergunnah Chainpur.	598 6 5	Whole	.....	Bhola Nath Singh and others	. . . .	577 5 11	.....
30	3074	Sodhi, pergunnah Chainpur.	1,636 4 3	.....	Rs. Sodhi 1	Sinnand and others ...	1,606 6 5	.....	56 6 0
31	3087	Shewaka Narhan, pergunnah Chainpur	2,123 4 3	.....	6a.	Baboo Bishoonath Singh and others.	1,046 2 1½	.....	569 3 6½
32	3639	Khadaon, pergunnah Dinara.	966 10 8	.... .	Khadaon Khurd and Kalan, Dhanohoosa and Bhanjandihra, 11a. 2p. 8k.	Doodhnath Thakoor and others.	690 10 4	.....	68 2 7
33	3099	Bajarya, pergunnah Nanor.	950 0 0	Whole	.....	Ramnarain Singh and others.	... ..	14 4 9	... ..
34	3789	Kowlodihri, pergunnah Nanor.	783 9 8	Do. ...	.....	Sheo Ghoolam Singh and others.	.....	133 11 2	.....
35	3843	Mirzapur Atpa pergunnah Nanor	645 0 0	.....	8a.	Lachmi Narain, and others.	323 8 0	.....	60 0 0
36	4284	Dunroon, pergunnah Piro.	900 0 0	Whole ..	... .	Agha Sultan Tafazzul Hossein.	.....	109 0 0	.
37	5540	Laheri, pergunnah Sasseram	1,259 11 9	Do. ...	..... Rs.	Baboo Sheo Lochan Singh.	.....	36 0 10	... ..
38	5633	Mahoosri Haraicha, pergunnah Sasseram.	688 2 2	.....	Mahoosri ... ... 1 Parasia 1	Bibi Fatma and others	331 11 9½	.....	2 14 9½
39	6789	Bhaboosa, pergunnah Chainpur.	614 8 7	Whole ...	... .	Chowdhri Ram Saran Singh and others.	...	161 6 10	....

Shahabad Collectorate, dated Arrah, the 1st March 1890. F. R. S. COLLIER, Collector.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Koonjo Behary Banerjea and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 123, Dhobadi	Khulna, Paikgatcha	Bighas, 8,400 In two blocks of bighas 4,200 each.	*North.*—By the Dhobadi and Arnachorra khals *East.*—By the Chorra Bajna khal *South.*—By the Chorra Bajna khal and Bhuddar river. *West.*—By the Bhuddar river. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

Sunderbun Commr.'s Office; Camp Fooljhoori, the 6th March 1890. J. ELLISON, Commissioner, Sunderbuns.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Shuroop Chunder Shamunta, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS
Lot No. 111, first portion.	24-Pergunnahs, Diamond Harbour, Sultanpur.	Bighas. 5,000	*North.*—By the Ghobatee or Kalinagunee Gang. *East.*—By an imaginary line drawn from a point on the banks of the Ghobatee or Kalinagunee Gang to a point on the banks of a khal rising from the Ghepotty khal or creek. *South.*—By the khal rising from the Ghepotty khal or creek and the Ghepotty khal or creek. *West.*—By the Ghepotty khal or creek. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr 's Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Moti Lall Chatterjee, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 223, West Bajoea.	Khulna, Paikgatcha ...	Bighas. 4,000	*North*—By the Arna Dacopi and Bajna khals. *East*—By the Bajna khal and an imaginary line drawn from the mouth of Kocha Doaniya to the mouth of the Arna Chorra khal. *South*—By the Arna Chorra khal and an imaginary line drawn from the mouth of the Arna Chorra khal to the mouth of the Kocha Doaniya. *West*—By the Arna Dacopi and Arna Chorra khals. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Behari Lall Soor, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B S.), at the Sunderbuns, Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable :—

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 135, second portion.	24-Pergunnahs, Basirhat, Hossainabad.	Bighas. 4,000	*North*—By the Hutta Khali. *East*- By the Suk Dooniya, Gabbuniya khal and an imaginary line drawn from a point on the banks of the Suk Dooniya to a point on the banks of the Gabbuniya khal. *South* - By the Bidha river and Gabbuniya khal. *West*—By the Hutta Khali. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Ram Pran Chuckerbutty and others, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 123, South Dacopi.	Khulna, Paikgatcha...	Bighas. 6,000	*North*—By the Dacopi and Arnachorra khals. *East*—By the Arnachorra and Dhobadi khals. *South*—Dhobadi khal. *West*—By the Bhuddar river. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE is hereby given, under section 6 of Act XI of 1859, that the undermentioned estates and shares of estates in the district of the 24-Pergunnahs will be put up for sale at the Collector's Office of that district on the 15th April 1890, for arrears of revenue which fell due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
15	Pergunnah Magura, mouzah, Kharibería and others.	4,091 4 2½	Whole estate.	.....	Hem Chundro Rai Chowdhury and others.	.....	638 3 10½	.....
53	Pergunnah Magura, Kismut Rameshurpur and others.	3,287 3 0	Do. ...	.....	Radha Mohon Mondle and others.	.....	215 2 9½	.....
63	Pergunnah Magura, Kismut Bashdroni and others.	9,135 6 1½	.....	9a. 13g. 1kr. 9½ residuary share.	Indromoni Dassi	5,517 7 11½	.....	1,721 2 10
64	Ditto ditto ...	6,842 4 9	.....	10a. 8g. 6½ag. 8 residuary share.	Prosonna Kumar Banerjee and others.	4,455 12 9	.....	40 0 8
151	Pergunnah Bareedhati and other kismut, chuck Haturia and others.	30,930 11 11½	.....	15a 15g. 2kr. 12½ residuary share.	Troylukho Nath Biswas and others.	39,374 1 11½	.....	274 15 2
315	Pergunnah Mooragacha, Kismut Roghunathpur and others.	10,256 13 1 0½	.....	9a. 7g. 3kr. 1kt. residuary share.	Saroda Dassi and others.	6,020 9 0½	.....	136 3 10½
322	Pergunnah Mooragacha, mouzah Aulumpur and others.	10,565 0 2	.....	8a. 16g. 11kg. 9-8 residuary share.	Shib Narain Mukerjee and others.	5,834 7 5½	.....	131 15 11
343	Pergunnah Bala, Kismut Panchoor and others.	2,136 15 4	.....	10a. 13g. 1kr. 1kt. residuary share.	Monindro Mohun Mookerjee and others.	1,424 10 2½	.....	95 12 9½
350	Pergunnah Balia, mouzah Krishnanagur and others.	3,137 8 3	.....	13a. 17g. 2kr. 1kt. residuary share.	Monindro Mohan Mukerjee and others.	2,720 13 0	.....	528 0 9
355	Pergunnah Balia, Kismut Raipur and others.	2,762 0 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Bankey Behary Mondle and others.	1,815 7 4½	.....	50 4 9½
358	Pergunnah Balia, mouzah Rajarampur and others.	1,194 3 5	Whole estate.	.....	Kally Kristo Mondle and others.	.....	99 12 7½	.....
385	Pergunnah Azeemabad, Hooda Roch Khalli and others.	19,425 8 1½	.....	Excluding shares separated under section 10 of Act XI of 1859 and under section 70, Act VII (B.C.) of 1876, the residuary share paying a revenue of Rs. 16,055-1-6.	Aupoorba Coomari Dassi and others.	10,055 1 6	.....	138 2 7½
388	Pergunnah Balia, mouza Molowapur and others.	8,327 4 6	.....	11a. 12g. 3kr. 1kt., residuary share.	Bankey Behary Mondle and others.	5,473 7 2½	.....	156 8 5
390	Pergunnah Balia, mouza Santoshpur and others.	9,434 9 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Ditto ...	5,201 4 7½	.....	138 7 2
391	Pergunnah Mooragacha, mouza Gomookhi and others.	5,538 8 6	.....	8a. 9g. 3kr. 2kt. residuary share.	Ditto ...	3,250 15 9½	.....	49 12 8
394	Pergunnah Azeemabad, mouza Kissarepur and others.	7,018 12 11	.....	10a. 10g. 1kr. 1kt. residuary share.	Saroda Dassi and others.	4,672 8 11½	.....	47 1 4
395	Pergunnah Azeemabad, taruff Molowapur and others.	14,657 13 11	Whole estate.	.....	Kollash Chundra Mondle and others.	.....	2,840 8 5	.....
397	Pergunnah Magura, mouza Kallynagur and others.	943 14 4	.....	14a. residuary share ...	Chundra Coomar Mondle and others.	825 14 0½	.....	165 4 7½
398	Pergunnah Magura, mouza Makhallia and others.	741 11 5	.....	13a. 12g. share ...	Ditto ...	633 15 5½	.....	87 5 4
401	Pergunnah Azeemabad, Hooda Ramkistopur and others.	8,941 9 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Saroda Dassi and others.	5,877 3 10	.....	69 11 4½
403	Pergunnah Azeemabad, taruff Pathorberia and others.	5,143 3 3	.....	15a. 1ug. residuary share.	Ditto ...	4,982 7 8	.....	20 11 3
1536	Pergunnah Moyda, taruff Bantra and others.	14,681 6 4	.....	4a. 2kr. 2kt. residuary share.	Soorot Mohini Dassi and others.	3,700 14 9	.....	132 2 11

Alipore, the March 1890. H. HOLMWOOD, Covd. Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates in the district of Gya will be put up to sale at the Collector's Office of that district on the 31st 1890 March for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mahal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
		Rs. A. P.					Rs. A. P.		
177	Sandesha, pergunnah Anchha.	854 6 0	The whole	.....	Khaja Ubaidulah *alias* Nanhe Nawab and others.	.....	7 0 9	.....	
3314	Bazidpur, Kasho Manora, pergunnah Manora.	508 12 0	Do. ...	.....	Sayed Mohammad Aboo Saleh and others.	.....	3 9 0	.....	

Gya Collectorate, the 3rd March 1890. G. A. GRIERSON, Collector.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Feb. 17	11 Packages, N D & Co. by I in a diamond ...	Order ...	S. S. "Golconda."
,, 17	1 Case, 419 in a diamond, C B below	Ditto ...	Ditto.
,, 17	2 Cases, D by 746 in a diamond, B top	Ditto ...	Ditto.
,, 17	3 Casks, H N in a block within a triangle ...	Ditto ...	Ditto.
,, 17	1 Iron plate, no mark or S F	Ditto ...	Ditto.
,, 17	2 Casks, J K G & Co. in a diamond	Ditto ...	Ditto.
,, 17	1 Case, L C	Ditto ...	Ditto.
,, 17	1 Case, N P & G	Ditto ...	Ditto.
,, 17	11 Casks, R A & Co.	Ditto ...	Ditto.
,, 17	1 Case, 300 by S D & Co.	Ditto ...	Ditto.
,, 17	1 Package, Mrs. A. Thomson	Addressed ...	Ditto.
,, 17	1 Case, The Venerable Archdeacon	Ditto ...	Ditto.
,, 17	81 Cases, U S C in a diamond	Order ...	Ditto.
,, 17	13 Packages, no mark	Ditto ...	Ditto.
,, 25	100 Drums, 10 in a diamond	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 8th March 1890. (3619—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 4th March 1890.

LIABILITIES.	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office ... ... Rs. 77,00,532 5 6			
Ditto ditto at Branches ,, 1,06,66,841 1 0	1,83,67,373	6	6
Other Deposits at Head Office and Branches	3,02,57,963	4	1
Bank Post Bills, &c.	4,11,485	12	0
Sundries	7,60,390	8	6
Rupees ...	7,55,97,162	15	1

ASSETS.	Rs.	A.	P.
Government Securities	11,78,417	8	0
Other authorized Investments	57,80,986	0	0
Loans on Government and other authorised Securities	1,95,48,418	8	2
Accounts of credit on ditto ditto	1,12,89,250	14	8
Bills discounted and purchased	1,84,58,589	3	4
Balances with other Banks	9,19,902	15	9
Bullion	7,088	0	0
Dead Stock	12,31,075	4	9
Stamps	13,648	7	0
Sundries	3,18,684	2	2
	5,87,46,060	15	10
Cash and Currency Notes at Head Office ... Rs. 76,82,483 4 7			
Cash and Currency Notes at Branches ... ... ,, 91,68,618 10 8	1,68,51,101	15	8
Rupees ...	7,55,97,162	15	1

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.

F. T. LEWIS, Offg. Chief Accnt.
Rate for Demand Loans 11 per cent.
Percentage 33-8.

BANK OF BENGAL,
Calcutta, 6th March 1890.

(3615—1)

IT is hereby notified that the following properties belonging to the judgment-debtor (Baboo Nursing Narain Singh) will be sold by public auction by the Nazir of the District Judge of Tirhoot, on the 15th day of March 1890, in the Court-house, in execution of decree held by Baboo Mohesh Churn Chatterjee for the realization of decree Rs. 22,563-15-3.

Serial number.	Names of the villages with pergunnahs.	Area.	Government revenue.	Extent of share to be sold.	Estimated value.
		A. R. P.	Rs. A. P.	A. G. C.	Rs. A. P.
1	Mouzah Bherowkhra, pergunnah Saraisa, bearing former touji No. 3046, belonging to police-station and sub-registry Tajpore, district Durbhungah.	883 3 24	1,758 8 9	9 0 0	4,000 0 0
2	Mouzah Dusrahs, pergunnah Saraisa, bearing former touji No. 3046, belonging to police-station and sub-registry Tajpore, district Durbhungah.	008 0 34	1,758 8 9	9 0 0	4,000 0 0
3	Mouzah Mohunpore, pergunnah Saraisa, bearing former touji No. 3046, belonging to police-station and sub-registry Tajpore, district Durbhungah.	142 1 2	1,758 8 9	9 0 0	4,000 0 0
4	Mouzah Mohat, pergunnah Saraisa, bearing former touji No. 3046, belonging to police-station and sub-registry Tajpore, district Durbhungah.	181 1 2	1,758 8 9	9 0 0	8,000 0 0

(3614—1) GIRIS CHUNDRA CHOUDHRY, Subordinate Judge, First Court.

In the Court of the Second Subordinate Judge of 24-Pergunnahs.

EXECUTION CASE No. 191 OF 1889.

Radhajibon Mastoofi, decree-holder, *versus* Raja Hemoda Kant Roy, judgment-debtor.

THE judgment-debtor on mortgage of his shares in the undermentioned properties, borrowed from the decree-holder one lakh of rupees, and failed to pay the same with interest, whereupon the decree-holder brought a suit (No. 179 of 1888) against him and obtained a decree of Rs. 1,60,639-14 with interest at 4 per cent. per annum from 8th July 1889 to the date of realization. In execution of the said decree the judgment-debtor's interest, the mortgaged properties, will be put up to auction sale in the 24-Pergunnahs Judge's Court at Alipore, on the 14th April 1890, at 12 o'clock, or on any subsequent date, of which due notice will be given at the place of sale. The sum now due to the decree-holder from the judgment-debtor is Rs. 1,65,694-3-9.

Description of Properties.

No.	District.	Registration sub-district.	Collectorate towji.	Pergunnah.	Annual sudder jumma.	Mehal, dihi, thana, sub-division.	Judgment-debtor's share in the property.	Interest to be sold.
1	Jessore ...	Jessore, Munirampore, Keshabpore.	250 Jessore ...	Saidpore ...	Rs. 40,177-3-11g. for the entire sixteen annas. Rs. 15,302-6-3 for one-third share.	.....	5a. 6g. 2c. 2kr. or one-third share.	Zemindari as well as subordinate rights.
2	Do. ...	Jessore, Munirampore.	74 do. ...	Emadpore ..	Rs. 6,854-10-1g. 3c. for the entire sixteen annas. Rs. 1 048-13-3g. for the share of the judgment-debtor.	.....	One-third share of 8a. 13g. 1c. 1kr.	Ditto.
3	Do. ..	Ditto ...	74 do. ...	Ditto ...	Rs 6,854-10-1-3 for the entire sixteen annas; putni jumma for one-third share is Rs. 1,521-12, and for the entire sixteen annas is Rs 4,563-4 payable to the zemindar Udoy Chandra Addya.	.....	One-third share of 7a. 6g. 2c. 2kr. of the putni right.	Putni right and the rights subordinate thereto.
4	Do. ...	Ditto ...	40 do. ...	Ditto ...	Rs. 2,285-11-7g. for the entire sixteen annas. Rs. 761-14-6-1 for the judgment-debtor's share.	Dehi Bhojegati ...	One-third share	Zemindari as well as subordinate rights.
5	Do. ...	Ditto ...	.....	Ditto ... revenue-free Joutook Brith Mohul.	.....	Thana Kotwali and Muniram-pore sub-division, Jessore.	Ditto ...	Khas proprietory right as well as the subordinate rights.
6	Do. ...	Jessore ...	74 Jessore ...	Emadpore ...	.....	Thana Kotwali, Mohal Bazar, Mohungunj.	Ditto	All sorts of rights which the judgment-debtor has (khas as well as subordinate).
7	Do. ...	Magurah ...	.....	Beliamari, Ba. manpur, Lot-mongur.	Putni jumma for the entire sixteen annas is Rs. 1,501, and for one-third share is Rs. 500-5-4 payable to the zemindar Ananga Mohun Deb Roy of Chadra.	Sub-division Magurah.	Ditto	All sorts of rights which the judgment-debtor has (putni khas as well as subordinate).
8	Khoolna .	Khoolna ...	120 Khoolna .	.....	Rs. 105-15 for the entire sixteen annas. Rs. 35 5 for the judgment-debtor's share.	Mohal taraf Birat, thana Hanighata, Khoolna.	Ditto	Zemindari as well as subordinate rights.
9	Jessore ...	Jessore ...	40,575 Jessore	Bhatna ...	Rs. 5,047-1-8 for the entire sixteen annas. Rs. 1,695-11-2-3 for the judgment-debtor's share.	.....	Ditto	Zemindari khas as well as subordinate rights.
10	Do. ...	Do. ...	.....	.....	Mourasi jumma Rs 400-9-2 payable to Henry Mackenzie. The said jumma has been purchased by the judgment-debtor.	Thana Kotwali Bazar Meekenzee-gunge John, Sil-nagore.	Entire 16 annas	Khas proprietory right as well as the subordinate rights.
11	24-Pergunnahs.	Naihati ...	.....	.....	.....	Thana Naihati ...	One-third share in 6 bighas of lakhraj land in village Atpore with orchards, all other	All sorts of rights which the judgment-debtor has.

appurtenances. The boundaries are:—Kali Bose's garden in the south; Beni Chand Ghose's land on the west; Radha Charan Dhur's garden on the east; Mohesh Chundra Bose's agricultural land on the north.

3609—1) RADHA KRISTO SEN, Subordinate Judge.

IT is hereby notified that the following properties belonging to the judgment-debtor (Sadik Ali Khan) will be sold by public auction by the Nazir of the District Judge of Tirhoot, on the 15th day of March 189 , in the Court-house, in execution of decree held by Baboo Laljee Lall for the realization of Rs. 75,302-8-6.

Serial number.	Names of the villages with pergunnahs.	Area.	Government revenue.	Extent of share to be sold.	Estimated value.
		A. R. P.	Rs. A. P.	A. G. C.	Rs. A. P.
1	Mouzah Patharputti appertaining to taluka Bhundarsou, pergunnah Loam, bearing former touji No. 1793 and present touji No. 6052, within the jurisdiction of police-station and sub-registry Durbhungah.	80 0 0	2,368 8 6	5 17 2	50 0 0
2	Mouzah Tiseo Nursam, asli with dakhli, pergunnah Jarail, bearing former touji No. 1591 and present touji No. 2423, within the jurisdiction of police-station and sub-registry Bemputti, district Durbhungah.	1,464 2 22	1,232 11 0	5 17 2	500 0 0
3	Mouzah Jutahi, asli with dakhli pergunnah Pindarooch, bearing former touji No. 2447 and present touji No. 2116, within the jurisdiction of police-station and sub-registry Durbhungah.	312 0 30	815 4 3	1 17 2	500 0 0

(3613—1) GIRIS CHUNDRA CHOUDHRY, Subordiate Judge, First Court.

IT is hereby notified that the following properties belonging to the judgment-debtor (Shaikh Sumsher Ali) will be sold by public auction by the Nazir of the District Judge of Tirhoot, on the 15th day of March 1890, in the Court-house, in execution of decree held by Bhugwan Dass and Bihari Dass, for the realization of decree Rs. 9,699-3-11.

Serial number.	Name of the village with pergunnah.	Area.	Government revenue.	Extent of share to be sold.	Estimated value.
1	Indigo concern of mouzah Bande, pergunnah Saraisa, within the jurisdiction of police-station Tajpore, district Durbhunga.	A. R. P.	Rs. A. P.	A. C. C. 4 0 0	Rs. A. P. 1,200 0 0

(3617—1) GIRIS CHUNDRA CHOUDHRY, Subordinate Judge, First Court.

IT is hereby notified that the following properties belonging to the judgment-debtors (Mr. W. R. Finch himself and as attorney on behalf of Mrs. J B. Finch, Mrs Mary Finch, Mr. J. Finch, and Mr. F. Finch through Mr. H. Beer) will be sold by public auction by the Nazir of the District Judge of Tirhoot, on the 15th day of March 1890, in the Court-house, in execution of decree held by Nawab Syed Walaet Ali Khan Bahadoor, C.I.E., for the realization of Rs. 2,080-8 6.

Serial number.	Name of the village with pergunnah.	Area.	Government revenue.	Extent of share to be sold.	Estimated value.
1	Indigo concern of mouzah Shahpore Oondi, pergunnah Saraisa, within the jurisdiction of police-station and munsifi Tajpore, district Durbhungah.	A. R. P.	Rs. A. P.	A. C. C. 16 0 0	Rs. A. P. 1,500 0 0

(612—1) GIRIS CHUNDRA CHOUDHRY, Subordinate Judge, First Court.

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS— From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purposes For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

High Court Notice.

ESTATE RAJAH RAJ KISSEN.

Maharajah Sibkristo Bahadoor, *vs.* Kristo Chunder Ghose.

NOTICE is hereby given that on Wednesday, the 12th March next, at the hour of 1 o'clock in the afternoon, the Receiver of the High Court will put up for auction, at his office on the third floor of the Court-house, a lease for six years from the 1st Bysack 1297, corresponding with the 13th April 1890, of the undermentioned property, on the terms and conditions of a draft lease which may be inspected at the said office.

In Zillah Tipperah, Pergunnah Gungamundle, recorded in the Register of the Collector as Towji No. 545, including the Churs appertaining thereto, viz., Nobbo Chur No. 1290, Chur Bahur *alias* Teetoor Chur No. 1508, Chur Surjo and Chur Sunjoora No. 1984, Chur Assad and Doobur Chur No. 21.

In Zillah Dacca, Chur Goagachia No. 10503, Chur Jamalpur No. 10505

For conditions of auction and further particulars apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver High Court.

High Court Receiver's office, the 18th February 1890.

(3562—4)

Receiver's Office.

TO be peremptorily sold by the Receiver, High Court. Calcutta, and Receiver to the estate of the late Baney Madhub Mitter, at his office on the third floor of the Court-house, on Wednesday, 19th March next, at the hour of one o'clock afternoon, pursuant to the order of Court, dated 26th day of August 1889, all that divided 10-48th part or share of the upper-roomed house situate at No. 37, Shovabazar Street, allotted on partition to Sreemutty Thukomonee Dossee, widow of the said Baney Madhub Mitter, and bounded on the north by Shovabazar Street; on the south and west by portions of the above premises allotted to Nittye Lall Doss and Mone Mohun Doss; and on the west by a filled up municipal drain.

For further particulars and conditions of sale apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver, High Court.

High Court, Receiver's Office, the 25th February 1890.

(3581—3)

Currency Notes.

THE following Currency Note of the Calcutta Circle is stated to have been destroyed, and payment of its value has been claimed by the person whose name is placed against the number; any other person claiming a right to it is warned to communicate at once with the undersigned :—

Note wholly lost or destroyed.

Register number.	Number of Note.	Value. Rs.	Name of Claimant
Hs of 1890	$\frac{U}{56}$ 94840	100	Bhagwandas Khatri, Kooncha Sanjagi Ram, Lahore Gate, Delhi.

H. KEENE, Assistant Comptroller-General, in charge Paper Currency.

Paper Currency Department, 11th February 1890.

Notice.

WANTED an Ameen for three months, on a salary of Rs. 30 per mensem. None need apply who has not got a thorough knowledge of practical surveying. Applications with copies of testimonials should be sent to the undersigned on or before the 25th March 1890.

B. DE., Collector.

Collector's Office, Khulna.

Notice.

WANTED by the District Board, Tipperah, an Overseer on a salary of Rs. 50 per mensem and Rs. 30 as consolidated travelling allowance.

None need apply who has not passed the Departmental Overseership Examination.

Applications with copies of testimonials should reach the undersigned on or before the 15th March 1890.

R. T. GREER, Chairman, District Board, Tipperah

Tipperah District Board, the 5th March 1890.

(3611—1)

Notice.

WE have authorized Mr. T. Plieninger to sign our firm from this date.

F. W. HEILGERS & Co.

Calcutta, the 24th February 1890. (3567—3)

In the Court of the Subordinate Judge of Beerbhoom.

EXECUTION CASE No. 78 of 1889.

Mokunda Lal Bormonya, as assignee of Kali Das Ghosh, decree-holder, *versus* Kumar Doorga Nath Ray and others, judgment-debtors.

THE undermentioned property of the above judgment-debtors will be sold by public auction on the 1st day of May 1890, at 12 o'clock noon, by the Nazir of the District Judge's Court, Beerbhoom, in the sale-room of the Court-house :—

Property.

1. Six annas zemindari share of pergunnah Shamskar Bhadrapur, bearing formerly towji No. 336 of the Moorshedabad Collectorate, at present No. 666 of the Beerbhoom Collectorate.

KEDAR NATH CHATTERJEA, Subordinate Judge.

(3616—1)

Road Cess Notification.

DISTRICT BURDWAN.

IT is hereby notified for general information that, under section 46 of Act III of 1885, the District Board of Burdwan, at a special meeting held on the 24th February 1890, have determined that the road cess for the year 1890-91 in the district shall be levied at the maximum rate, viz., 2 pice per rupee on the annual value of land, &c.

NALINAKSHA BASU, Vice- Chairman.

Nuddea District Board.

THE rate of road cess has been fixed for the year 1890-91 at 6 pie per rupee.

E. G. GLAZIER, Chairman.

Kishnaghur, the 4th March 1890.

Road Cess Notification.

DISTRICT JESSORE.

IT is hereby notified for general information that, under section 46 of Act III of 1885, the District Board of Jessore have determined that the Road Cess for the year 1890-91 in the district shall be levied at the maximum rate, viz. at the rate of one-half of an anna on each rupee of the annual value of lands.

C. J. O'DONNELL, Chairman.

I HAVE authorized Mr. M. Dürst to sign my firm per procuration.

Calcutta, 14th February 1890.

(3585—3) G. HERBST.

Road Cess Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act, No. III (B C.) of 1885, the District Board of Rungpore, by a resolution of their meeting of the 18th February 1890, have determined to levy road cess for the year 1890-91 at the maximum rate, *i.e.*, 2 pice per rupee on the annual value of land, &c.

F. H. SKRINE, Chairman, District Board, Rungpore.

Dated Rungpore, the 4th February 1890.

In the Court of the Munsif at Kalna, District Burdwan.

CIVIL EXECUTION CASE No. 52 OF 1890.

Mandakiny Devi *versus* Sarada Prasad *alias* Hara Dhan Mukerji, executor to the estate of Trailokya Nath Mukerji, deceased, and minor Nibaran Chandra Mukerji by his next friend Sarada Prasad *alias* Hara Dhan Mukerji.

THE undermentioned property will be sold by public auction at the Court-house of the Munsif at Kalna on Monday, the 7th April 1890, at 12 o'clock, in the execution of the decree passed by the Munsif of Kalna for the realization of Rs. 1,144-3-0 due from the debtor to the decree-holder :—

Lot 1.—Five annas share of mehal Char Krisnadebpur in the revenue roll of the Collectorate of Burdwan in towji No. 181; the sudder jumma of the entire mehal is Rs. 1,599-14-7 only.

BEPIN BIHARI SEN, Munsif of Kalna.

Kalna Munsif's Court, the 8th March 1890.

(3622—1)

In the Court of the Subordinate Judge of Nuddea.

CIVIL EXECUTION CASE No. 9 OF 1890.

Pitambar Sarkar and others, decree-holders, *versus* Pyari Lal Brahma, Adhar Chand Tarafdar and Satyabashini Dasi, minor, through Kailas Kamini Dasya, judgment-debtors.

THE undermentioned property of the judgment-debtor Pyari Lal Brahma, will be sold by public auction by the Nazir of the Court of the District Judge of Nuddea in the Court premises, in the monthly sale to commence on the 8th day of April 1890, at 12 o'clock, for the realization of Rs. 1,820-12 :—

Lot No. 1.—Three annas and four pies share belonging to the judgment-debtor, Pyari Lal Brahma, in mouzas Krishnapur, Julkur Najira, Julkur Dhupi, mouza Tayarpara, mouza Majpara, mouza Shonapur, mouza Hridaypur, appertaining to taraf Sonapur, in pergunnah Bagwan, bearing towji No. 472 of the Nuddea Collectorate, and the entire Government revenue payable therefor being Rs. 3,168-13-3 only.

JOY GOPAL SINHA, Offg. Subordinate Judge,

Krishnagur, the March 1890. (3623—1)

Notification.

IT is hereby notified that, under section 46 of the Local Self-Government Act III (B.C.) of 1885, the Dinagepur District Board have, at an adjourned meeting held on the 1st March 1890, determined to levy the road cess in this district, for the ensuing cess year 1890-91, at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

SEVAKANT MOOKERJEE, for Chairman.

Dinagepur, District Board's Office, the 3rd March 1890.

Notification.

UNDER section 46 of the Local Self-Government Act, 1885, the District Board of Pooree determined at its meeting held on 28th February 1890, to levy road cess for the cess year 1890-91, commencing from 1st April 1890, in the district of Pooree, at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands, and on the annual net profits from mines, quarries, tramways and railways.

NITYANAND DAS, for Chairman.
Pooree, District Board's Office, the 1st March 1890.

Notice.

Dessai and Parbuttia Tea Company, Limited.

THE Half-yearly Ordinary General Meeting of Shareholders will be held at the Registered Office of the Company, No. 100, Clive Street, on Monday, the 24th instant, at 12 o'clock, for the purpose of receiving the Directors' Report, passing the accounts for season 1889, and transacting such business as may be brought forward.

Transfer Books will be closed from 14th to 24th instant, both days inclusive.

By order,
GEORGE HENDERSON & Co., Secretaries.
Calcutta, the 10th March 1890. (3620—1)

The Seebpore Jute Manufacturing Company, Limited, in Liquidation.

NOTICE is hereby given that a General Meeting of the Shareholders of the above Company will be held at No. 19, Radha Bazar Street, Calcutta, on Wednesday, the 16th day of April 1890, at 12 o'clock in the day, for the purpose of having an account or report laid before them, showing the manner in which the winding up has been conducted and the property of the Company disposed of, and of hearing any explanation that may be given by the Liquidators, and by extraordinary resolution to sanction the transfer of the books, accounts and documents of the Company, and of the Liquidators thereof, to the Seebpore Jute Manufacturing Company, Limited.

ALEX. A. APCAR,
ELIAS S. GUBBAY,
J. E. D. EZRA,
SHIRLEY TREMEARNE,
Liquidators.
Calcutta, 11th March 1890. (3625—1)

Holta Tea Company, Limited.

THE Thirty-fourth Half-yearly General Meeting of the Shareholders of the above Company will be held at the Registered Office of the Company, No. 5, New China Bazar Street, Calcutta, on Saturday, the 15th March 1890, at 3 P.M., for the purpose of receiving the Directors' Report and the Accounts for the year 1889, declaring a dividend, and electing a Director and Auditor.

The Share Transfer Register will be closed from 5th to 15th March, both days inclusive.

By order of the Board,
MITCHELL, REID & Co., Agents and Secretaries.
Calcutta, the 5th March 1890. (3618—1)

Tukvar Company, Limited.

NOTICE is hereby given that the Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Wednesday, the 19th March 1890, at 10 o'clock, A.M., for the purpose of receiving the Directors' Reports, passing the accounts for the year ending 31st December 1889, declaring a final dividend and transacting such other business as may be brought before the Meeting.

By order of the Board,
WILLIAMSON, MAGOR & Co., Secretaries.
Calcutta, the 7th March 1890. (3621—2)

Corporation of Calcutta.

BYE-ELECTION UNDER ACT II (B.C.) OF 1888.

DECLARATION of result of Bye-election under section 19. Bye-election of Ward No. 16. One Commissioner to be elected :—

Name.	Residence.	Remarks.
K. McLeod, Esq., M D.	4, Park Street ...	No poll. Elected.

H. L. HARRISON, Chairman of the Corporation.
Municipal Office, Calcutta, the 10th March 1890.
(3627—1)

PROCEEDINGS of the Twenty-ninth Half-yearly Meeting of Shareholders in Carew & Co., Limited, held at the Registered Office of the Company, 26 Mangoe Lane, Calcutta, on Friday, 28th February 1890, at noon.

PRESENT :

R. A. Lyall, Esq.,
E. J. Marshall, Esq.,
A. S. Lovelock, Esq.,
W. A. Browne, Esq., by his Attorney A. S. Lovelock, Esq.,
Col. J. G. H. Boyd,
R. R. Carew, Esq.,
H. L. Fraser, Esq.,
H. L. Fraser, A. D Hussey-Freke and H. Kinner, Esq.,
T. R. Grant, Esq.,
C. J Lyall, Esq., C.S., C.I.E.,
} By their Attorney. R. A. Lyall, Esq.

Miss S. B. Lyall.
E. L. McAlester, Esq.,
W. H. Lyall, Esq.,
J. W. Stocks, Esq.,
A. A Stokes, Esq.,
Major H. Lyall,
Miss Mary Lyall
Miss Constance Lyall,
Miss Harriet Jane Lyall,
Mrs. E. M. Clayton,
Mrs. B. Marshall,
} By their Attorney R. A. Lyall, Esq.

Proposed by Mr. R A Lyall,
Seconded by Mr. E. J. Marshall,

1. That Mr. A. S. Lovelock take the Chair.

Carried.

Proposed by Mr. W. A. Browne, by his Attorney Mr. A. S. Lovelock,
Seconded by Mr. R. R. Carew, by his Attorney Mr. R. A. Lyall,

2. That the Managing Agents' Report having been taken as read be adopted, and that the accounts be passed as correct.

Carried.

Proposed by Mr. A. S. Lovelock,
Seconded by Mr. J. W. Stocks, by his Attorney Mr. R. A. Lyall,

3. That an *ad interim* Dividend of 5% on the Capital of the Company be declared for the half-year ended 31st December 1889, payable immediately after this Meeting, and that the sum of Rs. 15,308-11-4 be carried forward to next half-year.

Carried.

4. The Managing Agents informed the Meeting that, after the above Report was published, they received intimation from the Bombay Commissariat of the acceptance of the Company's tender of the supply of Rum to that Presidency, referred to in the report.

The Meeting closed with a vote of thanks to the Chair.

A S. LOVELOCK, Chairman.
LYALL, MARSHALL & Co., Managing Agents.
Calcutta, 28th February 1890. (3626—1)

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of HEROMBO CHUNDER BOSE, an Insolvent.

On Friday, the 17th day of January last, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

P. N. Paul, Attorney. (3594—2)

In the matter of GOBIND CHUNDER MITTER and another, Insolvents.

On Thursday, the 23rd day of January last, it was ordered that the matters of the petition of the said insolvents be heard on Saturday, the 19th day of April next, and that the said insolvents do then attend to be examined before the said Court.

N. G. Neoghy, Attorney. (3595—2)

In the matter of ROBERT WALTER HALL, an Insolvent.

On Saturday, the 8th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

C. F. GEDDES, Attorney. (3596—2)

In the matter of HORI NATH SHAHA and another, Insolvents.

On Saturday, the 8th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3597—2)

In the matter of BHOOBUN MOHUN BOSE, an Insolvent.

On Monday, the 10th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3598—2)

In the matter of ROGER GEORGE SETON CHEW, an Insolvent.

On Tuesday, the 11th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3599—2)

In the matter of GEORGE ROBERT CLAMPITT, an Insolvent.

On Tuesday, the 11th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3600—2)

In the matter of NORRIS GRIFFITHS, an Insolvent.

On Wednesday, the 12th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attened to be examined before the said Court.

Wilson and Chatterjee, Attorneys. (3601—2)

In the matter of JOHN HENRY GRACIES, an Insolvent.

On Thursday, the 13th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3602—2)

In the matter of GEORGE ANDERSON, an Insolvent.

On Friday, the 14th day of February last, it was ordered that the matter of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Remfry and Rose, Attorneys. (3603—2)

In the matter of BHOOSUN CHUNDER COONDOO, an Insolvent.

On Friday, the 14th day of February last, it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter, and that unless cause be shown to the contrary on that day the said Insolvent be discharged personally as well as to his after-acquired property from all liabilities for debts, claims and demands of and against the said Insolvent at the time of the filling of his petition for relief.

Insolvent in person. (3604—2)

In the matter of DAVID JOSEPH ROBINSON, an Insolvent.

On Monday, the 17th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3605—2)

In the matter of RIDH KURRUN, an Insolvent.

On Tuesday, the 18th day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

H. C. Chick, Attorney. (3606—2)

In the matter of SHAIK KHAZABUKSH, an Insolvent.

On Friday, the 21st day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person. (3607—2)

In the matter of BENJAMIN JACOB, an Insolvent.

On Saturday, the 22nd day of February last, it was ordered that the matters of the petition of the said Insolvent be heard on Saturday, the 19th day of April next, and that the said Insolvent do then attend to be examined before the said Court.

Insolvent in person.

Chief Clerk's Office, the 4th day of March 1890. (3608—2)

In the matter of WILLIAM GEORGE HEINS, an insolvent.

On Saturday, the 1st day of February last, it was ordered that the hearing of this matter do stand adjourned until Saturday, the 19th day of April next, and this Court doth hereby make this *ad interim* protection order for the protection of the said insolvent from arrest in respect of all the debts and liabilities mentioned in the schedule of the said insolvent, filed in this Court, which protection shall continue in force until the said 19th day of April next; and that the said insolvent is at liberty to amend his schedule generally, and that the said insolvent do then attend to be examined before the said Court.

C. G. Lewis, Attorney. (3628—1)

In the matter of MOOLTAN CHAND BOTHRA AND TODARMULL BOTHRA, insolvents.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvents, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 17th day of March instant, at the hour of half past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvents, desirous of opposing such application must appear before the said Court at the time and place aforesaid."

H. C. Chick, Attorney. (3629—1)

In the matter of BROJOLOLL MULLICK, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 17th day of March instant, at the hour of half past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

Prannath Paul, Attorney. (3630—1)

Chief Clerk's Office, the 11th day of March 1890.

POSTAL NOTICES.

Unclaimed Letters held in the Calcutta General Post Office on 11th March 1890.

Brown, M. M.
Cohen, A. M.
Johnson, H. L.
Kirlin, Charles.
Kyozo, F.
Melville, Isaac.
Presgrave, Richard Duncan.
Secretary, Druggists Assembly.

Letters marked Care of "Post Office."

Babonau, E. Hugh.
Baldwin, W. H.
Barker, F. W.
Barnes, W.
Baxter, Mrs.
Bedford, J.
Berkeley, C. M.
Biss, A. H.
Brown, W.
Browne, A. D.
Bruce, R. G.
Bulkeley, P. F.
Burnett, Mrs.
Carbery, Lady.
Cayley, H.
Charmetant, Mr.
Chatterton, J.
Close, Henry.
Cooper, W.
DaRocha, B. F.
Dickson, Mrs. E.
Douglas, G. P. H.
Drakeford, A.
Dymond, G. F.
Elliott, K.
Elmore, John S.
Fergusson, J. H. and Co.
Fisk, F. M.
Forshaw, H.
Fraiser, Miss Flo.
Francis, A. M.
Franzini, Madam.
Gantzman, Charles.
Garlo, E.
Gifford, H. J.
Glover, W. E.
Green, W. W.
Guillet, E.
Hamilton, C. J.
Hamilton, J. R.
Handcock, J. G.
Hardy, Mrs. M.
Hewett, F. J.
Higgins, C. C.
Horus, Miss M. L.
Humphries, Mrs. H.
Hunter, H. C.
Irvine, G.
Jackson, T.
Johannessen, O. C.
Kennard, F.
Kobus, J. D.
Lach, R.
Lamb, E. G.
Langer, J. O.
Linton, C. E.
Livesey, Thomas.
Long, W.
Mackenzie, J.
Major, A.
Matthews, J. R.
Mathewson, F.
Maxwell, Sir J. S.
Mayes, W. H.
May, J. J.
McAdoo, Mr.
McNair, Miss.
McSmith, D.
Menexis, Mrs. C.
Menzies, C.
Morgan, Mrs. R.
Morshead, L.
Newby, C. R. A.
O'Mealy, Capt. D'Oyly.
Payne, E. H.
Penn, Mrs.
Platts, Mrs. S. K.
Potokie, Count J.
Powell, F.
Prenter, Miss.
Rennrick, F. B. M.
Rennard, J. R.
Robertson, John.
Robinson, G.
Rosenstorn, Otto.
Roskell, Richard.
Ross, J. D.
Rubie, Phil C.
Russell, Donald.
Sano, T.
Searle, F. W.
Shoumon, John.
Shworth, T. K.
Skinner, J. C. M.
Taylor, C. S.
Thomson, Captain W. A.
Thompson, D.
Uphill, T.
Ursite, Johan.
Walter, F.
Walter, Amherst.
Weatherels, Harry,
Wilmer, Mrs.
Wood, Miss.

Registered Letters.

Chiodetti, A.
Davis, W. N.
Edwards, C.
Guiseppe, Celestini.
Hertzel, F.
Leonard, C. B.
MacLeod, D. J.
Marsland, W.
Robert, Falstiene Kertiss.

Unclaimed Letters held in the Barrackpore Post Office on the 10th March 1890.

Browne, R. J.
Caulter, A.
Ferguson, H. F.
Morgan, G.
Thompson, Mrs.
Wallace, Rev. W.

E. HUTTON,
Presidency Postmaster, Calcutta.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	18th March...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	17th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	24th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	24th ,, ...	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	20th ,, ...	Per French steamer *Niemen*.
Madras and Colombo ...	19th ,, ...	Per P. & O. steamer *Bengal*.
Straits, China and Japan ...	22nd ,, ...	Per str. *Kutsang*.
Rangoon and Moulmein ...	12th ,, ...	Ditto *Madura*.
Ditto ditto ...	14th ,, ...	Ditto *Sirsa*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	12th ,, ...	Ditto *Cononada*.
Port Blair	12th ,, ...	*Vid Madras*.
Madras, Colombo, Straits and China.	17th ,, ...	A. H. Lloyd's steamer *Niobe*.

N.B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 11th March 1890.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 7th March 1890.

Name of River.	Reach of river.	Least depth of water soundings. Ft.	In.	Remarks.
Bhagirati.	Entrance from Ganges ...	0	3	At mouth entrance practically closed.
	Thence to Nurpur	0	6	Dhopipara.
	From Nurpur to Jungipur ...	0	8	Bamunbari.
	,, Jungipur to Berhampur	0	10	Kesadanga.
	,, Berhampur to Cutwa ...	1	3	Mangonpara.
	,, Cutwa to Nuddea ...	2	0	Patooly.
Bhyrub-Jelinghi.	Entrance from Ganges ...	4	9	
	Thence to Akriganj	5	0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	3	6	Nowda.
	Thence to Patkabari	4	6	Lalnagore.
	Patkabari to Nuddea	3	0	Gopinathpore.
Mahanga.	Entrance from Ganges ...	1	8	
	Thence to Chnypara ...	0	1	Ramkistopore.
	From Chnypara to Shikarpur	0	3	Meena.
	,, Shikarpur to Boalia ...	0	3	Shampore.
	,, Boalia to Chuadanga ...	2	3	Sialmari.
	,, Chuadanga to Kissengunj and Hanakhali...	2	3	Boblabona.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M	Feet.	Feet.	
Ganges.	Sahebganj ...	8-3-90	6	2 50	65'50	Below zero.
	Rampore Boalia	8-3-90	18	0'14	42'14	
	Entrance of Bhagirati ..	8-3-90	7	1'50	46'81	
	Entrance of Bhyrub-Jelinghi .	8-3-90	...	5 84	44'20	
	Entrance of Matabanga ...	8-3-90		2'06		
Bhagirati...	Berhampur ...	10-3-90	12	1'84	35'63	
Jelinghi ...	Kishnaghur ...	7-3-90	..	2'58	11'47	
	Saroopgunge ...	8-3-90	6	3'16	7'46	
Matabanga	Hansthali ..	7-3-90	...	2'50	13 35	

C. E. LIVESAY, C.E.,
Exe. Engr., Nuddea Rivers Division.
Berhampore, the 10th March 1890.

List of Books for Sale

AT THE

LIBRARY OF THE ASIATIC SOCIETY OF BENGAL.

No. 57, PARK STREET, CALCUTTA,

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THE SOCIETY'S LONDON AGENTS, MESSRS. TRUBNER & CO.

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Aphorisms of the Vedanta (Sans.), fasc. III, V—XIII @ /6/ each	3 12
Ashtasáhasriká Prajnáparamitá, fasc I—VI @ /6/ each	2 4
Asvalayana Grihya Sutra, fasc. II—IV @ /6/ ...	1 2
Asvavaidyaka, fasc I—V @ /6/ each ...	1 14
Avadána Kalpalata by Kshemendra (Sans and Tibetan) Vol. I, fasc. I ...	1 0
Bhámati (Sans.), fasc. I—VIII @ /6/ each ...	3 0
Brahma Sútra (Eng.), fasc. I	0 12
Brihaddharma Puránam, fasc I	0 6
Brihat Aranyaka Upanishad (Sans.), fasc VI, VII and IX @ /6/ each	1 2
Ditto (Eng.), fasc. II—III @ /6/ each	0 12
Brihat Samhita (Sans.), fasc. I—III, V—VII @ /6/ each	1 14
Chaitanya-Chandrodaya Nataka (Sans.), fasc. II—III @ /6/ each	0 12
Chaturvarga Chintamani (Sans.). Vols. I, fasc 1—11; II, 1—25; III, Part I, fasc. 1—18, Part II, fasc. 1—2, @ /6/ each	21 0
Chhándogya Upanishad (Eng.), fasc. II ...	0 6
Dasarupa, fasc. II and III @ /6/	0 12
Gobhilíya Grihya Sútra (Sans.), fasc I—XII @ /6/ each	4 8
Hindu Astronomy (Eng.), fasc. I—III @ /6/ each	1 2
Kálamádhaba (Sans), fasc. I and IV @ /6/ each	1 8
Kátantra (Sans.), fasc. I—VI @ /12/ each ...	4 8
Katha Sarit Sagara (Eng.), fasc. 1—XIV @ /12/ each	10 8
Kaushitaki Brahman Upanishads, fasc II ...	0 6
Kúrma Purana (Sans.), fasc. 1—VIII @ /12/ each	3 0
Lalitá-Vistara (Sans.), fasc II—VI @ /6/ ..	1 14
Lalita-Vistara (Eng.), fasc. I—III @ /12/ each...	2 4
Madana Párijáta (Sans.), fasc. I—IV @ /6/ each	1 8
Manutiká Sangraha (Sans.), fasc. I—II @ /6/ each	0 12
Márkandeya Purana (Sans.), fasc. IV—VII @ /6/ each	1 8
Márkandeya Puráṇa (Eng) fasc. I	0 12
Mímámsa Darsana (Sans.), fasc. II—XIX @ /6/ each	6 12
Nárada Pancharátra (Sans.), fasc. IV ...	0 6
Nárada Smriti (Sans.), fasc. I and III @ /6/ ...	1 2
Nayavártikam (Sans.), fasc. I	0 6
Nirukta (Sans.), Vol. I, fasc. 1—6; Vol. II, fasc. 1—6; Vol. III, fasc. 1—6; Vol. IV, fasc. 1—5, @ /6/ each fasc.	8 10
Nítisára, or, The Elements of Polity by Kamandaki (Sans.), fasc II—V @ /6/ each ...	1 8
Nyáya Darśana (Sans.), fasc. III ...	0 6
Nyáya Kusumánjali Prakaranam (Sans.), Vol. I, fasc. I and II @ 6/ each	0 12
Parisishta Parvan /(Sans.), fasc. I—IV @ /6/ each	1 8
Pingala Chhandah Sútra (Sans.), fasc. II—III @ /6/ each	0 12
Prithiráj Rásau (Sans.), Part I, fasc. I, Part II fasc. I—V @ /6/ each	2 4
Ditto (Eng.), Part II, fasc. I ...	0 12
Prákrita Lakshanam (Sans.), fasc. I ...	1 8
Parásara Smriti (Sans.), fasc. I—VII @ /6/ each	2 10
Parásara, Institutes of (English)	0 12
Srauta Sútra of Apastamba (Sans.), fasc I—XII @ /6/ each	4 8
Ditto Asvalayana (Sans.), fasc. I—XI @ /6/ each	4 2
Ditto Latyayana (Sans.), fasc. I—IX @ /6/ each	3 6
Ditto Sánkháyana (Sans.), fasc. I—V @ /6/ each	2 4
Sama Veda Samhita (Sans.), Vols. I, fasc. 2—10; II, 1—6; III, 1—7; IV, 1—6; V, 1—8 @ /6/ each face	13 8
Sankhya Sutra Vritti (Sans.), fasc. I and II @ /6/ each	0 12
Sáhitya Darpana (Eng.), fasc. I—IV @ /6/ each	1 8
Sánkhya Aphorisms of Kapila (Eng.), fasc. I and II @ /6/ each	0 12
Sarva Darśana Sangraha (Sans.), fasc. II ...	0 6
Sankara Vijaya (Sans.), fasc. II and III @ /6/ each	0 12
Sankhya Pravachana Bhashya, fasc. III (English preface only)	0 6
Sri Bhashyam, (Sans.) fasc. 1	0 6
Suśruta Samhitá (Eng.), fasc. I and II @ /12/ each	1 8
Taittiríya Aranya (Sans.), fasc. I—XI @ /6/ each	4 2
Ditto Bráhmana (Sans.), fasc. I—XXIV @ /6/ each	9 0
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The 24th February 1886.

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H. A. D. PHILLIPS,

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The 24th November 1886.

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The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

PART III.

Acts of the Bengal Council.

GOVERNMENT OF BENGAL.

LEGISLATIVE DEPARTMENT.

[First Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 1st February, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 4th March, 1890, is hereby published for general information:—

ACT No. II OF 1890.

An Act to amend the Bengal Vaccination Act, 1880.

WHEREAS it is expedient to amend the Bengal Vaccination Act, 1880; It is hereby enacted as follows:— Preamble.

1. This Act shall come into force from the date on which it may be published in the *Calcutta Gazette* with the assent of the Governor-General. Commencement of Act.

2. In the Preamble of the Bengal Vaccination Act, 1880, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of Preamble of Act V 1880.

3. In section one of the same Act, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of section 1, Act V, 1880.

4. (*1*) In section two of the same Act, for the definition of "Town of Calcutta" the definition "'Town of Calcutta' means Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888," shall be substituted. Amendment of definition of "Town of Calcutta."

(*2*) In the same section, add the following to the definition of 'Port of Calcutta':— Addition to definition of "Port of Calcutta."

"or any other law for the time being in force."

(*3*) In the same section, the definition of "Suburbs of Calcutta" is hereby repealed. Repeal of definition of "Suburbs of Calcutta."

5. (*1*) All rules made and orders issued under section thirty-three of the Bengal Vaccination Act, 1880, relating to the Town of Calcutta in force immediately before the passing of this Act, shall be deemed to be in force in Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888. Rules and orders in force before passing of Act to be in force in Calcutta as defined by Act II, 1888.

(*2*) The Local Government may, from time to time, modify or cancel such rules and orders.

(*3*) And all such rules and orders relating to the Suburbs of Calcutta are hereby repealed.

CALCUTTA;
The 10th March, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

[Second Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 20th January, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 18th February, 1890, is hereby published for general information :—

ACT No. I OF 1890.

An Act to consolidate the Calcutta and the Suburban Police Superannuation Funds.

Preamble.

WHEREAS it is expedient to consolidate the Calcutta Police Superannuation Fund constituted under section 16 of Act IV, 1866 (the Calcutta Police Act, 1866), and the Suburban Police Superannuation Fund constituted under section 10 of Act II, 1866 (an Act to provide for the better regulation of the Police within the Suburbs of the Town of Calcutta) ; It is hereby enacted as follows :—

Amendment of section 16 of Act IV, 1866, and section 10 of Act II, 1866.

1. Section 16 of Act IV, 1866, and section 10 of Act II, 1866, from the words "and shall be applied" to the end of the said sections, respectively, are hereby repealed.

Consolidation of Police Superannuation Funds.

2. The Police Superannuation Funds, constituted respectively under section 16 of Act IV, 1866, and section 10 of Act II, 1866, shall be consolidated, and shall form one Police Superannuation Fund ; and shall be applied from time to time to the payment of the charges, including salaries, pensions or gratuities, incurred in the control and management of the said fund, and of such superannuation or retiring allowances or gratuities as may be ordered by the Local Government at any time to any member of the Calcutta or Suburban Police Force :

Provided that any such member may be dismissed or removed without a superannuation allowance, and that no such member shall be entitled as of right to any allowance from the said Fund, or shall retain any right to a refund of any deduction made from his pay while employed as such member.

Repeal of section 17 of Act IV, 1866, and section 11 of Act II, 1866.

3. Section 17 of Act IV, 1866, and section 11 of Act II, 1866, are hereby repealed.

Proceeds from fines, &c., to be credited to Police Superannuation Fund, or such other Fund as the Local Government may direct.

4. All sums accruing from stoppages from members of the Calcutta or Suburban Police Force during absence from sickness or other cause, and fines imposed on members of such force for misconduct, and all sums accruing from fines imposed by Magistrates upon drunken persons, or for assaults upon members of such force ; and all moneys arising from the sale of worn or cast-off clothing or other articles supplied for the use of the members of such force, shall be credited to the Police Superannuation Fund, or to such other Police Fund as the Local Government may, from time to time, direct.

Local Government may make rules for granting pensions and gratuities.

5. The Local Government may, from time to time, make rules to regulate the granting of pensions and gratuities out of the said Superannuation Fund.

CALCUTTA ;
The 27th February, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

The Calcutta Gazette.

PUBLISHED BY AUTHORITY.

WEDNESDAY, MARCH 12, 1890.

☞ Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART V.

Acts of the Governor General's Council assented to by the Governor General.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Act of the Governor General of India in Council received the assent of His Excellency the Governor General on the 7th March, 1890, and is hereby promulgated for general information :—

ACT NO. VI OF 1890.

An Act to provide for the Vesting and Administration of Property held in trust for charitable purposes.

WHEREAS it is expedient to provide for the vesting and administration of property held in trust for charitable purposes; It is hereby enacted as follows :—

Title, extent and commencement.

1. (*1*) This Act may be called the Charitable Endowments Act, 1890.

(*2*) It extends to the whole of British India, inclusive of Upper Burma and British Baluchistan ; and

(*3*) It shall come into force on the first day of October, 1890.

Definition.

2. In this Act "charitable purpose" includes relief of the poor, education, medical relief and the advancement of any other object of general public utility, but does not include a purpose which relates exclusively to religious teaching or worship.

Appointment and incorporation of Treasurer of Charitable Endowments.

3. (*1*) The Governor General in Council may appoint an officer of the Government by the name of his office to be Treasurer of Charitable Endowments for the territories subject to any Local Government.

(*2*) Such Treasurer shall, for the purposes of taking, holding and transferring moveable or immoveable property under the authority of this Act, be a corporation sole by the name of the Treasurer of Charitable Endowments for the territories subject to the Local Government, and, as such Treasurer, shall have perpetual succession and a corporate seal, and may sue and be sued in his corporate name.

Orders vesting property in Treasurer.

4. (*1*) Where any property is held or is to be applied in trust for a charitable purpose, the Local Government, if it thinks fit, may, on application made as hereinafter mentioned, and subject to the other provisions of this section, order, by notification in the official Gazette, that the property be vested in the Treasurer of Charitable Endowments on such terms as to the application of the property or the income thereof as may be agreed on between the Local Government and the person or persons making the application, and the property shall thereupon so vest accordingly.

(*2*) When any property has vested under this section in a Treasurer of Charitable Endowments, he is entitled to all documents of title relating thereto.

(*3*) A Local Government shall not make an order under sub-section (*1*) for the vesting in a Treasurer of Charitable Endowments of any securities for money, except the following, namely :—

(*a*) promissory notes, debentures, stock and other securities of the Government of India, or of the United Kingdom of Great Britain and Ireland;

(*b*) bonds, debentures and annuities charged by the Imperial Parliament on the revenues of India;

(*c*) stock or debentures of, or shares in, Railway or other Companies, the interest whereon has been guaranteed by the Secretary of State for India in Council;

(*d*) debentures or other securities for money issued by or on behalf of any local authority in exercise of powers conferred by an Act of a legislature established in British India;

(*e*) a security expressly authorised by any order which the Governor General in Council may make in this behalf.

(*4*) An order under this section vesting property in a Treasurer of Charitable Endowments shall not require or be deemed to require him to administer the property, or impose or be deemed to impose upon him the duty of a trustee with respect to the administration thereof.

Schemes for administration of property vested in the Treasurer.

5. (*1*) On application made as hereinafter mentioned, and with the concurrence of the person or persons making the application, the Local Government, if it thinks fit, may settle a scheme for the administration of any property which has been or is to be vested in the Treasurer of Charitable Endowments, and may in such scheme appoint, by name or office a person or persons, not being or including such Treasurer, to administer the property.

(*2*) On application made as hereinafter mentioned, and with the concurrence of the person or persons making the application, the Local Government may, if it thinks fit, modify any scheme settled under this section or substitute another scheme in its stead.

(*3*) A scheme settled, modified or substituted under this section shall, subject to the other provisions of this section, come into operation on a day to be appointed by the Local Government in this behalf, and shall remain in force so long as the property to which it relates continues to be vested in the Treasurer of Charitable Endowments or until it has been modified or another such scheme has been substituted in its stead.

(*4*) Such a scheme, when it comes into operation, shall supersede any decree or direction relating to the subject-matter thereof in so far as such decree or direction is in any way repugnant thereto, and its validity shall not be questioned in any Court, nor shall any Court give, in contravention of the provisions of the scheme or in any way contrary or in addition thereto, a decree or direction regarding the administration of the property to which the scheme relates.

(*5*) In the settlement of such a scheme effect shall be given to the wishes of the author of the trust so far as they can be ascertained and, in the opinion of the Local Government, effect can reasonably be given to them.

(*6*) Where a scheme has been settled under this section for the administration of property not already vested in the Treasurer of Charitable Endowments, it shall not come into operation until the property has become so vested.

Mode of applying for vesting orders and schemes.

6. (*1*) The application referred to in the two last foregoing sections must be made,—

(*a*) if the property is already held in trust for a charitable purpose, then by the person acting in the administration of the trust or, where there are more persons than one so acting, then by those persons or a majority of them, and

(*b*) if the property is to be applied in trust for such a purpose, then by the person or persons proposing so to apply it.

(*2*) For the purposes of this section the executor or administrator of a deceased trustee of property held in trust for a charitable purpose shall be deemed to be a person acting in the administration of the trust.

Exercise by Governor General in Council of powers of Local Government.

7. (*1*) The Governor General in Council may exercise all or any of the powers conferred on the Local Government by sections 4 and 5.

(*2*) When the Governor General in Council has signified to the Local Government his intention of exercising any of those powers with respect to any property, that Government shall not, without his previous sanction, exercise them with respect thereto.

Bare trusteeship of Treasurer.

8. (*1*) Subject to the provisions of this Act, a Treasurer of Charitable Endowments shall not, as such Treasurer, act in the administration of any trust whereof any of the property is for the time being vested in him under this Act.

(*2*) Such Treasurer shall keep a separate account of each property for the time being so vested in so far as the property consists of securities for money, and shall apply the property or the income thereof in accordance with the provision made in that behalf in the vesting order under section 4 or in the scheme, if any, under section 5, or in both those documents.

(*3*) In the case of any property so vested other than securities for money, such Treasurer shall, subject to any special order which he may receive from the authority by whose order the property became vested in him, permit the persons acting in the administration of the trust to have the possession, management and control of the property, and the application of the income thereof, as if the property had been vested in them.

Annual publication of list of properties vested in Treasurer.

9. A Treasurer of Charitable Endowments shall cause to be published annually in the local official Gazette, at such time as the Local Government may direct, a list of all properties for the time being vested in him under this Act and an abstract of all accounts kept by him under sub-section (*2*) of the last foregoing section.

Limitation of functions and powers of Treasurer.

10. (*1*) A Treasurer of Charitable Endowments shall always be a sole trustee, and shall not, as such Treasurer, take or hold any property otherwise than under the provisions of this Act or, subject to those provisions, transfer any property vested in him except in obedience to a decree divesting him of the property, or in compliance with a direction in that behalf issuing from the authority by whose order the property became vested in him.

(*2*) Such a direction may require the Treasurer to sell or otherwise dispose of any property vested in him and, with the sanction of the authority issuing the direction, to invest the proceeds of the sale or other disposal of the property in any such security for money as is mentioned in section 4, sub-section (*3*), clause

(*a*), (*b*), (*c*), (*d*) or (*e*), or in the purchase of immoveable property.

(*g*) When a Treasurer of Charitable Endowments is divested, by a direction of the Local Government or the Governor General in Council under this section, of any property, it shall vest in the person or persons acting in the administration thereof and be held by him or them on the same trusts as those on which it was held by such Treasurer.

Provision for continuance of office of Treasurer in certain contingencies.

11. If the office held by an officer of the Government who has been appointed to be a Treasurer of Charitable Endowments is abolished or its name is changed, the Governor General in Council may appoint the same or another officer of the Government by the name of his office to be such Treasurer, and thereupon the holder of the latter office shall be deemed for the purposes of this Act to be the successor in office of the holder of the former office.

Transfer of property from one Treasurer to another.

12. If by reason of an alteration of the limits of the territories subject to a Local Government, or for any other reason, it appears to the Governor General in Council that any property vested in a Treasurer of Charitable Endowments should be vested in another such Treasurer, he may direct that the property shall be so vested, and thereupon it shall vest in that other Treasurer and his successors as fully and effectually for the purposes of this Act as if it had been originally vested in him under this Act.

Power to frame forms and make rules.

13. The Governor General in Council may frame forms for any proceedings under this Act for which he considers that forms should be provided, and may make such rules consistent with this Act as he may deem expedient for—

(*a*) prescribing the Local Government which is to exercise the powers conferred by this Act in the case of property which is, or is situated, in territories subject to two or more Local Governments,

(*b*) prescribing the fees to be paid to the Government in respect of any property vested under this Act in a Treasurer of Charitable Endowments,

(*c*) regulating the cases and mode in which schemes or any modifications thereof are to be published before they are settled or made under section 5,

(*d*) prescribing the forms in which accounts are to be kept by Treasurers of Charitable Endowments, and the mode in which such accounts are to be audited, and,

(*e*) generally, carrying into effect the purposes of this Act.

Indemnity to Government and Treasurer.

14. No suit shall be instituted against the Government in respect of anything done or purporting to be done under this Act, or in respect of any alleged neglect or omission to perform any duty devolving on the Government under this Act, or in respect of the exercise of, or the failure to exercise, any power conferred by this Act on the Government, nor shall any suit be instituted against a Treasurer of Charitable Endowments except for divesting him of property on the ground of its not being subject to a trust for a charitable purpose, or for making him chargeable with or accountable for the loss or misapplication of any property vested in him, or the income thereof, where the loss or misapplication has been occasioned by or through his wilful neglect or default.

Saving with respect to Advocate General and Official Trustee.

15. Nothing in this Act shall be construed to impair the operation of section 111 of the Statute 53 George III, Chapter 155, or of any other enactment for the time being in force, respecting the authority of an Advocate General at a presidency to act with respect to any charity, or of sections 8, 9, 10 and 11 of Act No. XVII of 1864 (*an Act to constitute an Office of Official Trustee*) respecting the vesting of property in trust for a charitable purpose in an Official Trustee.

General controlling authority of Governor General in Council.

16. A Local Government shall, in the exercise of its powers under this Act, be subject to the control of the Governor General in Council.

S. HARVEY JAMES,
Secretary to the Government of India.

[REGISTERED No. 29.]

No. 11 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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LIBERALITY OF BABU BRIJA MOHAN THAKUR AND RAI HARI MOHAN THAKUR BAHADUR.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 5th March, 1890.

RESOLUTION.

READ—

Endorsement from the Director of Public Instruction No. 1088, dated the 27th February last, and its annexure.

The Lieutenant-Governor has learnt with pleasure that Baboo Brija Mohan Thakur and Rai Hari Mohan Thakur, Bahadur, of Bhagulpore have made a donation of Rs. 1,000 in aid of the funds of the Behar Sanskrit Sanjivan Sabha, and desires officially to recognise the liberality and public spirit of the donors.

ORDER.—Ordered that a copy of this Resolution be published in the *Calcutta Gazette*, and that a copy of it be forwarded to the Director of Public Instruction for information and communication to the donors.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

APPOINTMENT OF DEPUTY MAGISTRATES AND DEPUTY COLLECTORS DURING THE YEAR 1890.

RESOLUTION.

APPOINTMENT DEPARTMENT.

Dated the 11th March 1890.

READ—

The Resolution, dated the 24th April 1889, regarding the recruitment of the Subordinate Executive Service.

Read—

The Notification, dated the 1st June 1889, publishing the rules for the examination held in February 1890.

The results of the Subordinate Executive Service examination held in February 1890 having been received, the Lieutenant-Governor directs that, in accordance with the orders contained in paragraph 14 of the Resolution and paragraph 6 of the Notification read in the preamble, the following gentlemen be declared to be eligible for appointment as Deputy Magistrates and Deputy Collectors during the year 1890:—

1. Baboo Ram Nath Chatterjee, M A.
2. Moulvie Mahomed Abbas Ali, M.A.
3. Baboo Bisseswar Bhattacharjee, B.A.
4. ,, Benode Behary Sircar, late Special Deputy Collector.
5. ,, Gobind Chundor Das, M.A.
6. Moulvie Sheik Abdulla, Special Deputy Collector.
7. Baboo Promotha Nath Dutt, B.A.
8. Moulvie Syed Ali Hossein, B.A.
9. Baboo Brojo Durlab Hazra, B.A.
10. ,, Nobin Chunder Ker, B.A.
11. ,, Prosonno Kumar Das Gupta, B.A.
12. ,, Jogendro Nath Sen, Special Deputy Collector.

Of the twelve gentlemen appearing in the above list, six are those who obtained the first six places in the competitive examination, three have been nominated from among those registered candidates who have obtained not less than one-third marks in the examination, and three are Special Deputy Collectors who have been selected for promotion. Those among the above 12 selected candidates who are not already in Government service will be posted to the head-quarters of various districts as probationers on a subsistence allowance of Rs. 50 per mensem, and will be employed on general work of such a kind as may be allotted to them by the District Magistrate. They will be appointed to fill vacancies in the Subordinate Executive Service, as they occur, according to the position assigned to them in the above list.

The following gentlemen, who are on the list of registered candidates and who have obtained upwards of one-third marks in the examination, are declared eligible for appointment to the post of Deputy Magistrate and Deputy Collector, should any vacancies occur during the year after the appointment of the twelve gentlemen above mentioned:—

Baboo Bunku Behari Singh, M.A., B.L.
,, Rakhal Chunder Banerjee, B.A.

ORDER.—Ordered that the above Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 8th March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Divn. 1	Burdwan March 8, '90	Nil	Weather—cool for the time of year. *Rabbi* is being harvested and sugarcane pressed. Prospects favourable. Prices of common rice :— Srs. Burdwan ... ... 17½ Cutwa ... ... 16½ Ranigunge ... ... 19 } per rupee.
	Ranigunge ...	0·03	
2	Bankoora ,, 8, '90	0·47	Weather—a little cooler. *Rabbi* harvest and pressing of sugarcane proceeding. Rainfall of the week too small to help ploughing for the next rice. Common rice selling at 21 seers per rupee at Bankoora and 19½ seers at Bishenpore.
3	Birbhum ,, 8, '90	0·35	The nights are still cool. State and prospects of crops continue good : all the better for the slight rain. Sugarcane being pressed. Price of rice in the southern half of the district ranges from 19 to 20 seers per rupee, and in the northern half from 18 to 19 seers.
	Rampore Hât ...	0·07	
4	Midnapur ,, 8, '90	0·23	Weather—seasonable. *Rabbi* being harvested with good results. Prices of common rice :— Srs. Sudder ... ... 18 Tamluk ... ... 18 Contai ... ... 24 Ghatal ... ... 19 } per rupe
5	Hooghly ,, 8, '90	Nil	Weather—seasonable. State and prospects of crops good Prices of common rice :— Srs. Sudder ... ... 12½ Serampore ... ... 14 Jehanabad ... ... 17½ } per rupee.
	Howrah ,, 8, '90	Nil	Weather—warm in the day, but cool at night. State and prospects of crops good.
	Central Districts.		
Presidency Divn. 6	24-Pergns. March 8, '90	Drizzling	Weather—rather warm. Prospects of crops good. Ploughing going on in some parts. Price of common rice 15 to 16 seers per rupee.
7	Nuddea ,, 8, '90	Nil	Weather—cloudy. Prospects of crops on the ground favourable. Linseed, peas, *masuri*, wheat, and barley being reaped ; outturn may be 12 annas. Cultivation of land for early rice going on.
	Kooshtea ...	0·15	
	Meherpur ...	0·07	
8	Khoolna ,, 8, '90	0 25	Weather—foggy in the morning and days warm. Condition of *boro* and *rabbi* crops good.
9	Jessore ,, 8, '90	Nil	Weather—cloudy and hot in the day, but cool in the night. Ploughing of rice lands going on. Rain wanted. Linseed and pulses being reaped. Prices of rice stationary
	Magura ...	0·04	
10	Moorshedabad ,, 8, '90	0·15	Weather—clear and cool. Lands being prepared for *aus*. *Boro* being sown. *Rabbi* still being cut and gathered.
	Kandi ...	0 25	
Rajshahye Divn. 11	Dinagepur ,, 8, '90	Nil	Weather—seasonable ; getting hot. Land is being ploughed for *bhadoi*. Sugarcane being pressed.
12	Rajshahye ,, 8, '90	Nil	Weather—seasonable ; growing warm. Rain wanted. Outturn of those cold-weather crops that are being harvested is good. Crops on the ground coming on nicely, and prospects satisfactory.
	Nattore ...	0·08	
13	Rungpur ,, 8, '90	Nil	Weather—dry with hot westerly wind ; cool nights. *Aus* is being sown in some places. Other standing crops doing well.
14	Bogra ,, 8, '90	0·09	Weather—seasonable. Land is being cultivated for *aus*, *til*, and jute, and in some low lands sowing has commenced. Standing crops (peas, gram, &c.) reported to be good. In some places sugarcane is being cut, while in others it is being transplanted. Common rice selling at 18 seers per rupee.
	Sherpur ...	0·03	
15	Pubna ,, 8, '90	0·23	Weather—seasonable. Mustard and tobacco expected to yield 12 annas. Gram and wheat being cut in the Serajgunge subdivision, and the outturn expected to be 16 annas.
16	Darjeeling ,, 8, '90	Nil	Weather—cold and bright. Crops doing well, and prospects generally good.
17	Julpigoree ,, 8, '90	Nil	Weather—fair with dry west wind. General prospects of standing crops good. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca March 8, '90	Nil	Weather—days getting hot, but nights are cool. Winter crops doing well. *Til* and paddy being sown. Mustard and sugarcane being cut. No special change in the prices of food-grains. Common rice 14 to 16 seers per rupee.
Dacca Divn. 19	Furreedpur „ 8, '90	Nil	Weather—days hot, but nights cool; cloudy at intervals. Prospects of crops on the ground fair. Rain wanted for *aheena* and *kaon* and for jute and *aus* sowings. Linseed, mustard, and tobacco being harvested with an outturn of more than eight annas. Common rice is selling at— Srs. Ch. Sudder ... ... 16 0 / Goalundo ... ... 16 13 / Madaripur ... ... 15 0 } per rupee.
Dacca Divn. 20	Backergunge „ 8, '90	Nil	Weather—seasonable. Prospects of *rubbi* crops fair. Common rice selling at 13 seers per rupee.
Dacca Divn. 21	Mymensingh „ 8, '90	Nil	Weather—seasonable. Prospects of crops good. Course rice selling at 14 seers per rupee.
Chittagong Divn 22	Chittagong „ 8, '90	0·09	Weather—seasonable; still cool at night. Rain urgently wanted for winter crops. Common rice selling at 15 seers 12 chittacks per rupee.
Chittagong Divn 23	Noakholly „ 8, '90	Nil	Weather—unsettled. Harvesting of *rubbi* crops continues. Preparation of soil for *aus* going on. Rain wanted.
Chittagong Divn 24	Tipperah „ 8, '90	Nil	Weather—cool at night, warm in the day. Chillies and tobacco thriving. Rain wanted for *boro* paddy. Land being prepared for *aus* and jute.
Chittagong Divn 25	Chittagong Hill Tracts. „ 7, '90	0·88	Weather—slightly cold in the morning. Sun becoming hot and unbearable gradually. A copious shower of rain with hail-stones on the 28th ultimo. *Jum* cutting continues. Sugarcane being planted. Tobacco and chillies doing well. Rain on the 28th February has improved condition of standing crops to some extent. Middle class rice selling at 13 seers per rupee and inferior and lower class rice at 16 seers per rupee.
	Hill Tipperah March 8, '90	0·31	Weather—getting warm. Sugarcane and tobacco being gathered. *Jums* being cut in the hills.
BEHAR.			
Patna Divn. 26	Patna „ 8, '90	Nil	Weather—generally cloudy with strong wind. Harvesting of *rubbi* in progress. Collection of opium continues. Prospects favourable. Mango crop damaged by cloudy weather and light rain during the last week. Prices of food-grains almost stationary.
Patna Divn. 27	Gya „ 8, '90	0·20	Weather—cloudy. Extraction of opium going on. *Rubbi* crops being harvested.
Patna Divn. 28	Shahabad „ 8, '90	0·08	Weather—warm and cloudy with some showers. Opium and mango blossoms damaged by showers. Wheat and barley ready for cutting. Prices stationary.
	Buxar ...	0·21	
	Sasseram ...	0·85	
	Bhabuah	0·40	
Patna Divn. 29	Durbhunga „ 8, '90	...	Weather—cloudy; a strong west wind with slight rain on the night of the 5th. Harvesting of peas, *khesari*, and linseed in progress. Mango blossoms partially injured by rain. Opium still being extracted. Indigo sowing in progress. Lands being prepared for sowing *mung* and paddy. Common rice selling at 19½ seers per rupee at Sudder.
Patna Divn. 30	Muzaffarpur „ 8, '90	0·11	Weather—cool. Rain on the 5th instant general; still cloudy at end of week. Cutting of *rubbi* crops commenced in places; 12 to 16 annas outturn expected. Indigo sowings nearly completed. In Sitamarhi indigo had to be resown in some places after the rain, but in the south the rain does not appear to have damaged the first sowings.
	Hajipur ..	0·7	
	Sitamarhi ...	0·4	
Patna Divn. 31	Sarun „ 8, '90	0·11	Weather—cloudy. Prospects of *rubbi* excellent. Weather has been unfavourable for poppy; its prospects, however, continue to be good.
Patna Divn. 32	Chumparun „ 8, '90	0·19	Weather—warm with west wind, but nights still cool. Reaping of *rubbi* and extraction of opium commenced. Mango blossoms slightly damaged by thunder and lightning which accompanied the showers of rain on the 5th.
Bhagulpore Divn. 33	Monghyr „ 8, '90	Nil	Weather—generally cloudy. A few drops of rain fell at Sudder on the 4th. Harvesting of peas, mustard, and linseed going on. Wheat and barley ripening. Prices of food-grains almost stationary.
Bhagulpore Divn. 33	Begusarai ...	0·5	
Bhagulpore Divn. 33	Jamui ..	0·10	
Bhagulpore Divn. 34	Bhagulpur „ 8, '90	Nil	Weather—cloudy; a few drops of rain fell on the night of the 4th instant. Nights still cool, but it is rather hot during the day. Harvesting of linseed, oats, and peas continues. Wheat also is being cut with prospect of an average outturn.
Bhagulpore Divn. 35	Purneah „ 8, '90	0·05	Weather—dry with westerly wind. Lands being ploughed for *bhadoi* cultivation. Wheat, gram, and other standing crops doing well. Common rice selling at 20 seers per rupee in Sudder station and 21 seers at Arrareah.
Bhagulpore Divn. 36	Maldah „ 8, '90	0·15	Weather—warm and fine. High west wind and occasional clouds. *Rubbi* crops ripening. *Boro* transplantation continues. Rain during the week has done some injury to mango blossoms. Common rice selling at an average of 18 seers a rupee.
Bhagulpore Divn. 36	Shibgunge ...	0·25	
Bhagulpore Divn. 37	Sonthal Pergns. „ 8, '90	0·16	Slight rain with thunder on 4th and 5th instant. Rain not sufficient to do much good. It will help sugarcane, mango, and *mohwa*. *Chickna rahar* gives 6 to 8 annas in Godda. Prospects on the whole fair.
Bhagulpore Divn. 37	Deoghur ...	0·37	
Bhagulpore Divn. 37	Godda ...	0·30	
Bhagulpore Divn. 37	Jamtara ...	0·51	
Bhagulpore Divn. 37	Pakour ...	0·15	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack March 8, '90	Nil	Weather—seasonable. *Dalua* rice and tobacco doing well. Prospects of crops continue good.
	39	Pooree „ 7, '90	Nil	Weather—hot and cloudy. Threshing of *sarad* rice still continues. Lands being ploughed. *Dalua* and *moong* doing well. Prices of rice stationary.
	40	Balasore „ 8, '90	Nil	Weather—seasonable. *Rubbi*, sugarcane, and mustard being harvested. A fall of rain would be beneficial.
CHOTA NAGPORE				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh March 8, '90	0·30	Weather—unsettled, cloudy and cool. *Rubbi* being harvested with good results. Sugarcane being transplanted. Poppy prospects continue favourable.
	42	Lohardugga „ 8, '90	1·24	Weather—cloudy with rain and wind. Prospects of *rubbi* crops good in the head-quarters subdivision. Mango and *mohwa* blossoms much damaged by storm and lightning. *Rubbi* harvesting not yet finished in the Palamow subdivision.
	43	Singbhoom „ 8, '90	0·10	Weather—cloudy. Prospects of crops continue good. Prices stationary.
	44	Manbhoom „ 8, 90	0 38	Weather—hot and cloudy. Slight rain that fell during the week has done some good to the plantation of sugarcane. Coarse rice selling at 20 to 24 seers per rupee.
		Govindpore ...	0·53	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 11th March 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 8	14 8	13 4		.	...	14 4	14 4	15 0	16 11	17 1	18 0	.	...	...
2	Bankoora	15 0	14 8	12 8	16 0	14 0	15 0	18 0	17 8	17 8	20 0	21 4	20 0		.	..
3	Beerbhoom ...	15 0	15 0	11 8	...	..	...	13 8	13 8	13 4	18 0	16 8	16 8	...	...	...
4	Midnapore .	13 0	13 0	10 0	.	..	...	16 0	14 0	15 0	20 0	18 0	20 0	..		...
5	Hooghly	13 0	13 0	13 0	.	.		8 0	8 0	10 0	14 0	13 0	13 0			...
	Howrah	...	...		...	.	...	11 8	11 8	12 0	14 8	14 8	16 0		...	..
	Central Districts.															
	Calcutta	13 10	13 9	12 15	17 1	17 2	15 15	9 3	9 1	9 9	14 1	1 .	14 9	21 5	21 0	16 11
6	24-Pergunnahs	14 8	14	12 4	16 0	16 0	16 0	8 0	9 0	8 0	16 0	17 0	16 8	...	...	..
7	Nuddea	15 0	15 0	14 0	17 12	17 12	17 12	12 5½	10 10½	13 5	4 9	12 14	16 4	..		...
8	Khoolna ..			...				14 0	14 0	14 0	16 0	16 0	16 0	.	..	..
9	Jessore .	12 12	12 12	12 8				9 0	9 0	13 0	16 0	16 0	16 0	..		...
10	Moorshedabad	16 0	16 0	13 5	..			13 0	15 8	13 8	17 0	16 0	17 0	.		..
11	Dinagepore	19 4	17 6	12 0	...	20 0	11 0	15 0	15 8	15 8	19 0	19 9	19 3	...		....
12	Rajshahye	16 8	16 8	13 8	26 4	22 8	26 4	13 8	15 0	14 4	15 0	16 2	16 8	...	.	...
13	Rungpore	14 8	13 5	14 8			.	9 7	9 6	10 8	14 8	14 8	16 0	...		...
14	Bogra	Best. 12 0 / Common. 16 8	12 0 / 15 0	12 0	.	.		12 0	12 0	15 0	18 0	19 2	19 8	..	...	...
15	Pubna	17 4	15 0	15 12	.			6 14	6 12	7 8	16 4	16 14	18 0			..
16	Darjeeling	10 0	10 0	10 0	9 0	9 0	6 0	5 0	5 0	6 0	12 0	12 0	13 0	.	..	..
17	Julpigoree	14 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	15 0	18 0	17 8	.		..
	Eastern Districts.															
18	Dacca .	13 0	13 0	15 8	16 0	16 0	26 0	13 0	14 0	15 0	14 0	16 0	17 0	...	...	...
19	Furreedpore .	12 0	12 0	16 0	14 0	14 0	20 0	10 0	10 0	9 0	14 0	14 0	16 0	.		...
20	Backergunge ...	.	...	..	.	.		12 4	12 13	14 0	13 12	15 0	16 8	...		...
21	Mymensingh ..	11 8	10 0	10 0	.	.	.	10 8	8 0	12 0	14 0	14 0	18 0	.	.	...

A In subdivisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 8 chittacks, and Ranegunge 10½ seers.
B At Rampore Haut retail price of salt 10 seers per rupee.
C In subdivisions retail prices of salt per rupee are:—Contai 9 seers, Tumlook 8 seers, and Ghattal 10 seers.
D In subdivisions retail prices of salt per rupee are:—Serampore 10 seers and Jehanabad 10 seers.
E In subdivisions retail prices of salt per rupee are:—Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are:—Kooshtea 10 seers, Meherpore 10½ seers, Chooadanga 9 seers, and Ranaghat 9 seers 2 chittacks.
G At Satchira retail price of salt 10 seers per rupee.
H In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 9¾ seers, Narail 9¾ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are:—Lalbagh 10½ seers, Jungipore 10 seers, and Kandi 10½ seers.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Corocana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
16 0	15 13	12 15	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	13 0	13 0	14 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria italica.*)			GRAM, CHANA, CHHOLA, KADALAI OR SUNAGA. (*Cicer arietinum.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	19 0	19 0	15 0
...	...	...	17 8	17 8	14 8
...	...	...	18 0	17 4	15 0
...	...	...	16 0	16 0	13 8
...	...	...	16 0	16 0	13 0
...	...	...	16 8	16 12	16 0
11 0	11 14	17 12	16 12	16 12	15 8
6 8	6 8	16 0	18 13	19 8	17 1
...	...	...	20 0	20 0	17 0
...	...	...	13 0	13 0	10 8
...	...	...	16 0	16 0	14 0
...	...	...	22 0	20 0	16 0
...	...	...	15 0	15 8	12 0
...	...	...	19 8	18 0	15 0
...	...	...	16 0	14 8	10 0
...	...	...	12 0	12 12	10 14
...	...	...	17 4	16 0	13 8
...	...	...	10 0	10 0	11 0
...	...	...	13 0	13 0	11 8
...	...	...	13 0	13 0	13 0
...	...	...	11 0	11 0	16 0
...	...	...	16 0	15 0	12 13
...	...	...	14 8	13 0	12 0

Head-quarter Station Bazars of the Districts of Bengal on the 28th February 1890.

Indian-corn or Maize (*Zea Mays.*)			Arhar or Thur, Caljan Dha. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch	S. Ch.	S. Ch.	S. Ch	S. Ch	S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch	S Ch.	S Ch	Rs. A. P.	Rs A P	Rs. A P.	
...	...	...	23 0	19 0	18 8	100 0	100 0	107 0	A 10 0	10 0	10 2	3 10 6	3 11 0	3 11 6	Burdwan.
35 0	29 0	20 0	20 0	20 0	18 8	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.
...	...	.	12 0	12 0	...	160 0	160 0	160 0	B 10 8	10 8	10 0	3 10 0	3 10 0	3 13 0	Beerbhoom.
..	..	.	13 8	13 8	21 0	160 0	160 0	160 0	C 10 3	10 3	10 4	3 14 6	3 15 0	3 14 0	Midnapore.
...	..	...	11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	..	..	13 4	13 8	13 4	100 0	100 0	100 0	10 0	10 0	10 8	3 12 6	3 13 0	3 7 0	Howrah.
															Central Districts
18 12	18 12	16 0	17 6	17 11	16 12	100 0	100 0	100 0	10 2	10 2	10 5	3 10 2	3 11 0	3 9 6	Calcutta.
	...	..	18 0	17 0	18 0	100 0	100 0	100 0	E 10 0	10 0	10 4	3 9 6	3 9 6	3 10 0	24-Pergunnahs.
...	.	...	20 0	20 0	17 2	...	...	...	F 9 2	9 2	9 2	4 0 0	3 14 0	3 14 0	Nuddea.
...	.	.	...	..	.	160 0	160 0	160 0	G 9 8	9 8	9 2	4 4 0	4 4 0	4 0 0	Khoolna.
...	...	..	16 0	15 0	22 0	160 0	160 0	160 0	H 9 4	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	...	19 0	19 0	22 0	200 0	200 0	200 0	I 10 12	10 12	10 0	3 12 0	3 12 0	4 0 0	Moorshedabad.
...	...		13 0	10 0	9 8	160 0	160 0	160 0	J 9 8	9 8	10 0	4 0 0	4 0 0	3 15 0	Dinagepore.
...	...	.	20 0	18 0	21 12	240 0	240 0	240 0	K 9 0	9 0	9 9	4 2 8	4 2 8	4 0 0	Rajshahye.
...	..	...	9 7	9 6	13 0	100 0	100 0	120 0	L 8 14	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.
...	...	..	...	.	...	90 0	90 0	96 0	9 0	9 0	9 0	4 4 0	4 4 0	4 5 4	Bogra.
...	...	...	20 10	20 10	24 0	200 0	200 0	200 0	9 6	8 11½	9 2½	4 0 0	4 0 0	4 0 0	Pubna.
16 0	16 0	18 0	8 0	8 0	...	120 0	120 0	120 0	8 0	8 0	8 0	N 5 0 0	5 0 0	5 0 0	Darjeeling.
...	..	..	12 0	12 0	9 0	128 0	128 0	128 0	O 9 0	9 0	9 0	4 2 0	4 2 0	4 2 0	Julpigoree.
															Eastern Districts.
...	...	...	14 0	14 0	16 0	160 0	160 0	120 0	P 9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	Dacca.
12 0	14 0	20 0	10 0	11 0	12 0	120 0	120 0	120 0	9 0	9 0	10 0	4 4 0	4 4 0	3 14 0	Furreedpore
...	..	...	...	...	...	120 0	120 0	120 0	Q 10 5	10 5	10 10	3 14 0	3 14 0	3 12 0	Backergunge.
...	...	...	14 0	15 0	...	..			R 9 0	9 0	9 8	4 4 0	4 4 0	4 2 0	Mymensingh.

J In Thakurgaon subdivision retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are:—Nattore 9 seers and Nowgong 8 seers 11 chittacks.
L In subdivisions retail prices of salt per rupee are:—Kurigram 9 seers, Nilphamari 9 seers, and Gaibanda 8 seers.
M At Serajgunge retail price of salt 10 seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O At Fallacutta in the Alipore subdivision retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are:—Manickgunge 8 seers, Moonshegunge 8½ seers, and Naraingunge 10 seers 10 chittacks.
Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Tangail 10 seers, Netrokona 8 seers, and Shorepo e 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	12 0	15 10	15 10	14 0	.	...	...
23	Noakholly ...	...	...	...	.	...	...	14 0	15 0	15 0 Chaplash.	16 0	17 0	16 0	...	...	...
24	Tipperah ...	12 5	12 5	12 8	.		.	10 0 Gobindabhag.	10 0	16 0	14 9½	16 0	18 0		.	...
25	Chittagong Hill Tracts.	...	...	...	...	..	...	11 7	12 4	11 6½	13 5	14 0	13 5½	..	..	..
	Hill Tipperah ...	6 0	6 0	6 0	.	...	...	9 0	0 0	9 0	15 0	15 0	18 0	...	...	...
	BEHAR.															
26	Patna ...	17 8 Red. / 15 8 White.	17 8 Red. / 15 8 White.	... / 17 0	25 0	23 0	22 8	10 8	10 8	11 0	19 8	18 12	16 2½	22 0	21 0	25 0
27	Gya ...	15 0	15 0	15 0	22 0	23 0	18 0	11 0½	10 8	10 0	17 0	17 0	15 0	...	...	...
28	Shahabad ...	15 0	16 0	16 0	18 0	24 0	20 0	8 0	9 0	9 0	16 0	17 0	15 0	21 0	20 0	20 0
29	Durbhunga ...	14 4	14 4	16 8	22 0	27 8	18 12	11 0	11 0	10 0	18 11	18 2	15 8	27 6	...	...
30	Mozufferpore	15 0	14 0	12 0	20 0	20 0	...	9 0	9 0	9 0	17 0	17 0	12 8	..	...	...
31	Sarun ...	15 0	15 8	15 0		...	21 12	9 4	9 0	8 12	16 13	17 0	14 10	...	...	...
32	Chumparun ...	14 0	12 0	13 0	28 0	24 0	16 0	8 0	8 0	7 0	18 0	18 0	13 0	.	...	...
33	Monghyr ...	18 6	17 14	15 12	18 5	21 0	...	15 12	16 12	13 2	17 5	18 14	16 8	...	...	...
34	Bhagulpore ...	16 6	16 6	15 2	20 3	20 3	17 0	11 6 Old. / 15 2 New.	11 6 Old. / 15 2 New.	13 14	13 14 Old. / 17 11 New.	13 14 Old. / 18 15 New.	15 2	...	...	...
35	Purneah ...	18 0	18 0	12 0	...	...	...	18 0	17 0	15 0	19 0	19 0	18 0	...	...	...
36	Maldah ...	18 0	18 0	13 0	...	...	..	14 0	11 0	10 0	17 0	18 0	17 0	...	...	...
37	Sonthal Pergha.	13 0	13 0	11 0	..	...	.	13 0	13 0	14 0	17 0	17 0	17 0	...	..	...
	ORISSA.															
38	Cuttack ...	13 2	13 2	13 2	..	.	...	10 8	10 8	11 13	21 0	21 0	17 1	...	...	...
39	Pooree ...	13 2	13 2	11 13	...	...	...	17 1	17 1	11 13	23 10	23 10	17 1	...	...	...
40	Balasore ...	15 0	15 0	13 0	13 0	13 0	13 0	13 0	13 0	12 0	21 0	19 0	21 0	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	13 0	13 0	13 0	14 0	15 0	...	10 0	10 0	8 0	17 0	17 0	16 0	...	...	...
42	Lohardugga ...	13 8 Red. / 10 12 White.	13 8 Red. / 10 8 White.	... / 13 0	15 0	13 0	...	15 0	15 0	13 0	17 12 Middling. / 20 0 Coarse.	18 0 Middling. / 19 0 Coarse.	14 8	...	...	...
43	Singbhoom ...	10 0	10 0	10 0	10 0	12 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	..	...
44	Manbhoom ...	13 5	13 5	14 0	...	...	...	14 0	15 0	15 0	22 0	21 0	22 0	...	...	...

S At Cox's Bazar retail prices of salt 8 seers per rupee.
T At Fenny Hât retail price of salt 8 seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9 seers.
V In subdivisions retail prices of salt per rupee are :—Tajpore 11 seers and Madhubani 10 seers.
W At Hajipore retail price of salt 10½ seers per rupee.
X At Bettiah retail price of salt 9¾ seers per rupee.

CALCUTTA,
The 11th March 1890.

Station Bazars of the Districts of Bengal on the 28th February 1890—(concluded).

INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	108 0	9 0 [S]	9 0	9 8	4 4 0	4 0 0	4 0 0	Chittagong.
...	...	...	8 0	8 0	8 0	...	...	...	9 0 [T]	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly.
...	...	...	8 6½	8 6½	9 0	...	...	...	9 6½	8 14	8 0	4 4 0	4 8 0	4 6 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR.
25 0	23 0	22 8	25 0	21 8	23 0	130 0	130 0	130 0	10 0 [U]	10 0	10 0	3 14 0	3 13 6	3 12 3	Patna.
...	...	...	21 0	20 0	19 0	160 0	160 0	200 0	9 2	9 2	8 12	4 2 0	4 2 0	4 2 9	Gya.
...	...	...	20 0	19 0	14 0	160 0	160 0	160 0	10 0 [V]	10 0	10 0	3 15 0	3 15 0	4 0 0	Shahabad.
23 1	23 0	17 8	17 9	17 9	21 0	160 0	200 0	176 0	11 0 [W]	10 4	11 0	3 10 3	3 14 0	3 10 2	Durbhunga.
23 0	26 0	18 0	18 0	18 0	20 0	160 0	160 0	160 0	10 0 [X]	10 0	10 0	4 0 0	4 0 0	3 12 0	Mozufferpore
22 0	23 0	21 2	19 8	19 8	21 0	160 0	160 0	200 0	9 12 [Y]	10 0	10 0	4 0 0	4 0 0	3 15 0	Sarun.
24 8	24 0	18 0	17 0	17 0	22 0	160 0	160 0	160 0	9 8	10 0	9 8	4 2 0	4 1 0	4 0 0	Chumparun
24 2	21 0	16 4	18 5	16 12	17 4	147 0	147 0	147 0	9 15 [Z]	9 11	9 8	4 0 0	4 0 0	4 0 0	Monghyr.
22 11	22 6	16 6	16 6	16 6	17 10	176 12	176 12	176 8	10 1	10 1	10 1	3 15 6	3 15 6	4 0 0	Bhagulpore.
...	...	...	16 0	16 0	16 0	130 0	130 0	200 0	9 0 [Z]	9 0	9 0	4 7 0	4 7 0	4 5 0	Purneah.
...	...	...	...	...	...	160 0	120 0	120 0	9 0	9 0	10 0	4 1 0	4 2 0	4 0 0	Maldah.
25 0	25 0	19 0	20 0	20 0	22 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Sonthal Perghs.
															ORISSA.
...	...	...	14 7	14 7	18 6	80 0	80 0	80 0	11 0 [Z1]	11 0	12 0	3 12 0	3 12 0	3 3 0	Cuttack.
...	...	...	15 12	15 12	14 7	80 0	80 0	80 0	11 13 [Z2]	11 13	11 13	3 6 0	3 6 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 0	10 0	9 0	3 14 0	3 14 0	4 1 0	Balasore.
															CHOTA NAGPORE *South-West Frontier Agency*
21 0	21 0	18 0	15 0	16 0	17 0	320 0	320 0	320 0	8 0	8 0	8 0	4 6 0	4 6 0	4 4 0	Hazaribagh..
32 0	32 0	17 0	19 0 Small.	19 12	16 0	120 0	120 0	140 0	8 8 [Z3]	8 8	8 8	4 5 0	4 6 0	4 8 0	Lohardugga.
16 0	20 0	...	14 0	12 0	15 0	240 0	240 0	200 0	8 8	8 8	8 0	4 12 0	4 12 0	5 0 0	Singbhoom.
34 0	32 0	26 8	20 0	20 0	17 0	00 0	300 0	200 0	9 2 [Z4]	9 2	9 0	4 0 0	4 2 0	4 2 6	Manbhoom.

Y In subdivisions retail prices of sal per rupee are:—Begusarai 9½ seers and Jamui 9 seers.
Z At Kishengunge retail price of salt 8 seers per rupee.
Z1 In Khoordah subdivision retail price of salt 11 seers per rupee.
Z2 At Bhudruck retail price of salt 9 seers per rupee.
Z3 At Palamow retail price of salt 8·43 seers per rupee.
Z4 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 0	2 10 11	2 13 5	2 1 10	2 1 8	2 5 8	4 1 8	4 2 7	3 14 10	2 9 2	2 10 3	2 7 10
2	Serajgunge ...	2 4 0	2 2 0	2 5 0	...	...	...	3 12 0	4 10 0	3 9 0	2 12 0	2 12 0	2 5 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	1 8 0	3 0 0	2 13 0	2 10 0	2 13 0	2 7 0	2 5 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	2 12 0	2 6 0	2 12 0	2 8 0	2 4 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 4 0	3 4 0	3 4 0	2 8 6	2 8 6	2 10 0
6	Patna ...	Red. 2 4 0 / White. 2 8 0	Red. 2 4 0 / White. 2 8 0	... / 2 5 0	1 9 0	1 10 6	1 12 0	3 12 0	3 12 0	3 8 0	2 0 0	2 1 0	2 6 0
7	Balasore ...	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 11 0	2 0 0	1 11 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 12 0	1 12 0	2 2 0
9	Cuttack ...	3 0 0	3 0 0	3 0 0	...	...	...	3 10 0	3 10 0	3 4 0	1 11 0	1 11 0	2 0 0

CALCUTTA,
The 11th March, 1890.

In the undermentioned Marts of Bengal on the 28th February 1890.

Gram, Chana, Cholla, Kadalay or Sunaga. (*Cicer Arietinum.*)			Indian-corn or Maize. (*Zea Mays.*)			Arhar or Thur, Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 3	2 2 4	2 5 3	1 14 6	1 14 6	2 4 0	2 1 2	1 15 11	2 2 5	0 5 6	0 5 6	0 5 9	3 10 2	3 11 0	3 9 6	Calcutta.
2 2 0	2 4 0	2 10 0	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 13 0	Sorajgunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
3 0 0	3 0 0	3 0 0	...	...	...	3 2 0	3 2 0	3 2 0	0 8 0	0 8 0	0 10 0	3 8 0	3 12 0	3 12 0	Naraingunge.
3 0 0	3 0 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	4 4 0	4 4 0	4 0 0	Chittagong.
1 8 6	1 9 6	2 0 0	1 9 0	1 10 6	1 11 9	1 9 0	1 13 6	1 10 0	0 5 0	0 5 0	0 5 0	3 14 0	3 13 6	3 12 3	Patna.
2 12 0	2 12 0	2 14 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 1 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
2 12 0	2 12 0	1 11 0	...	...	...	2 12 0	2 12 0	2 0 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 8 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts	Stock in hand as compiled on—												
	1st week of Mar 1889.	1st week of April 1889	1st week of May 1889	1st week of June 1889	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.
	Mds	Mds	Mds.	Mds.	Mds	Mds	Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Balasbatta	12 77 000	12,67 000	12,42 000	7,67 500	8,73,000	7 32.700	6,62,000	5,06,000	4.54,000	2.96,500	3,00,000	5,48,000	9,31,100
Ooltadanga	80 200	87.100	82 200	88 000	86,500	78.700	74,400	71,900	67,400	55.400	63,400	83.900	1,02,500
Chitpore, Golabaree, Coomertooly, Hatkhola, and Gulpy Ghat.	7,08,200	7,64,000	7.54,200	6 96,500	6,83,400	6,97.700	5.76,300	6,74,100	6.33,300	5,86,000	6.00,400	5,92,900	5 83 800
Pathuriaghatta. Posta and Jorabagan	2 000	3.200	3,000	2,500	2,000	3,600	4,000	5,000	8,000	3,000	4 000	5,000	4.000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,37,400	1,48,100	1,50,000	1,19,700	1,03,700	1,10,700	72,500	64 550	65,200	68,100	82,750	98,100	1,21,500
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Beidyabatty, Nowabgunge Shuddreesur, and Chandernagore.	20,493	19,792	20,068	19,923	19,906	18,117	14,265	14,382	13,410	14,060	28,425	19,606	33,469
Total ..	27,15,293	27,79,192	27,50,466	21,84,123	22,60,506	21,30,917	18,93,465	18,25,332	17,31,310	15,13,060	15,68,975	18,43,596	22,66,369
On Railway premises on both sides of the river	6,852 (on 5th Mar. 1889.)	23,414 (on 4th April 1889.)	12,406 (on 4th May 1889.)	6,578 (on 3rd June 1889.)	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)
On boats unloaded .. By Port Commissioners' returns.	31,937 (1st to 3rd Mar. 1889.)	23,449 (1st to 3rd April 1889.)	17,963 (1st to 3rd May 1889.)	16,066 (1st to 3rd June 1889.)	25,810 (1st to 3rd July 1889.)	1,32,233 (1st to 3rd Aug. 1889.)	25,334 (1st to 3rd Sept. 1889.)	17,882 (5th to 7th Oct. 1889.)	21,334 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)
By Canal returns	30,350 (1st to 3rd Mar. 1889.)	30,713 (1st to 3rd April 1889.)	8,972 (1st to 3rd May 1889.)	15,297 (1st to 3rd June 1889.)	27,106 (1st to 3rd July 1889.)	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)
Grand total of Stocks ..	28,34,932	28,62,748	27,89,897	22,22,064	23,20,342	22,96,673	19,48,282	18,97,914	17,81,363	15,49,242	17,90,438	21,81,231	25,05,503
Probable stock available for exportation by sea	17½ lakhs	18 lakhs	17½ lakhs	11½ lakhs	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs

Statistical Department,
The 10th March, 1890.

P. Nolan,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of February 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29 948		
The average pressure of February from 24 years' registers ...	29·945		
The highest pressure in the month	30·170	2nd	10
The lowest pressure in the month	29 676	16th	16
The range of pressure	0·494		
	Hours.		
The total number of hours of bright sunshine during the month	248 2		
The maximum possible number of hours of sunshine ...	318 0		
	⊖		
The mean temperature of the month	70·9		
The average temperature of February from 24 years' registers	73·0		
The highest temperature in the month	90·8	26th.	
The lowest temperature in the month	50 7	12th.	
The range of temperature during the month	40·1		
The mean daily range of temperature	24·0		
The greatest range of temperature in one day	30·4	12th.	
	Per cent.		
The mean humidity of the month	67		
The average humidity of February from 24 years' registers ...	67		
	Inches.		
The mean vapour tension of the month	0·493		
The average vapour tension of February from 9 years' registers	0·538		
The mean cloud proportion of the month	0·74		
The average cloud proportion of February from 13 years' registers	1·75		
	Inches.		
The total rainfall of the month	Nil		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	Nil		
The average fall of February from 48 years' registers ...	0·87		
The greatest fall in 24 hours	Nil		
	Days.		
The number of rainy days in the month	Nil		
The average number of rainy days in February from 24 years' registers	3		
	⊖		
The mean maximum equilibrium temperature of solar radiation during the month	137·3		
The mean difference of sun and air temperatures	53·7		
The greatest sun temperature	143·4	21st.	
The greatest excess of sun over air temperature	56·7	8th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	51 8		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	8·1		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	10 8	12th.	
	Miles.		
The mean movement of the wind per day	69·8		
The greatest movement of the wind in one day	183·0	17th.	
The greatest movement of the wind in one hour	17·0	26th	11 to noon.

The number of hours with winds from each of the 8 points—

N. 128, N.E. 48, E. 14, S E. 21, S. 69, S.W. 160, W. 100, N.W. 75, Calm 57.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2·1° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 7th March 1890.

Meteorological Report of the Province of

Meteorological Division.	District.	Representative stations.	Station Observations.																
			Air Pressure.					Temperature.						Humidity.		Cloud.			
			Highest S A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree	30·136	29·796	29 994	30·007	—	90·2	?	83·7	?	?	—	85	—	1·0	—	Nil
		Gopalpore	30·136	29·789	29·985	30·007	+·005	85·2	56·0	82·0	66·5	75 2	—0·5	72	—	0·3	—	Nil
		False Point	30·149	29·782	29 991	30·014	—·022	89·5	50·5	83 1	62·5	72·8	—0·8	91	—1	2·4	—0·8	Nil
	Cuttack	Cuttack	30·000	29·730	29·940	30·024	—·004	98·4	53·9	91·1	65·2	78·1	+0·4	78	—3	2 9	+1 0	Nil
	Balasore	Balasore	30·105	29·713	29·968	30·020	—·016	94·4	48·4	87·0	60 5	73·7	+1·1	78	—	0·1	—	0·16
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Saugor Island	30·130	29·776	29 903	30·020	— 010	88·2	55·3	81·4	65 1	73·3	+0 1	91	—1	1·8	—1·8	0·11
	Midnapore	Midnapore	30·008	29·637	29·867	30·025	—·020	96 3	51·2	88·7	60·0	74·4	+2·5	61	—	0·3	—	Nil
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	30·140	29·756	29·996	30·016	—·018	91·0	50 8	83 3	59·5	71·4	+0·5	83	—1	0·8	—1·4	Nil
	Burdwan	Burdwan	30·044	29·637	29·900	30·014	—·026	93 8	46·3	86·4	57·1	71·8	+1 0	62	—10	0·8	—1·1	Nil
	Bankoora	Bankoora	29·821	29·447	29 630	30·003	—·030	94·1	50 3	86·8	58·1	72·5	+1·7	53	—	0·6	—	Nil
	West Burdwan and Beerbhoom.	Ranigunge	29·824	29·423	29·687	30·038	—·010	94·5	50 2	86·9	57·6	72 2	+1·8	57	—	0 5	—	Nil
	Moorshedabad	Berhampore	30·089	29 690	29·941	30·012	—·025	91·1	47·6	83 9	55·2	69·6	+0·6	76	+1	0·6	—1·3	Nil
	Nuddea	Krishnagore	30·118	29·802?	29·979	30·048	+·016	92·7	44·9	85·4	53·2	69 3	+0·8	69	—	0·5	—	Nil
	Jessore and Khoolna	Jessore	30·134	29·721	29·977	30·013	—·018	91·8	49·9	85·7	58·9	71·4	+1·4	89	+7	0·1	—2·2	Nil
East Bengal.	Chittagong	Chittagong	30·033	29·771	29·923	30·017	—·034	89·1	51·2	83·9	58·4	71·2	+1·3	82	—5	1·5	—0·8	Nil
	Chittagong Hill Tracts	Demagri						Observations not received.										
	Backergunge	Barrisal	30·118	29·784	29·990	30·009	—·003	88·3	50·1	84·2	59·2	70·7	+1·3	88	—	0 9	—	Nil
	Noakholly	Noakholly	30·099	29·798	29·983	30·028	—	88·0	47·0	82·4	57·1	69·8	—	80	—	0·0	—	Nil
	Furreedpore	Furreedpore	30·100	29·736	29·974	30 015	—·016	86·0	49·5	79 8	57·2	68·5	+0·5	84	—	0·6	—	Nil
	Dacca	Dacca	30·103	29·754	29 974	29 997	—·032	90·6	48 2	83 8	57·9	70·0	+0·8	81	+1	1 0	—0·8	Nil
	Tipperah	Commillah	30·155	29·784	29·953	30·020	—·004	88 4	48·1	83·2	57·7	70 5	+1·0	85	—	1·1	—	Nil
	Mymensingh	Mymensingh	30·082	29·737	29 947	30·008	—·027	88·4	48 1	81·1	56·0	68·6	+1·8	85	—	0·8	—	Nil
North Bengal.	Bogra	Bogra	30·056	29·685	29·916	29·988	—·018	91·5	47·0	83·4	53·9	68·6	+1·9	75	—	0·0	—	Nil
	Pubna	Serajgunge	30·091	29·720	29·947	29 995	—·025	90·8	44·9	83·4	55 1	69·2	+1·5	80	—	0·2	—	Nil
	Rajshahye	Rampore Beauleah.	30·074	29·679	29·933	30·006	—·003	89·3	45·9	82·3	54 7	68·5	+2·4	70	—	0·2	—	Nil
	Maldah	Maldah	30·060	29·754	29·937	30·022	—	92·5	42·7	83·5	50 9	67·3	—	64	—	0·0	—	0·00
	Dinagepore	Dinagepore	30·017	29·615	29·870	29·999	—·039	90·1	43 9	82·7	51·5	67·1	+1·8	77	—	0·1	—	Nil
	Rungpore	Rungpore	30·030	29·636	29·892	30·015	—·014	89 0	44 0	81·6	51·6	66·6	+3·5	80	—	0·9	—	Nil
	Julpigoree and Cooch Behar.	Julpigoree	29·835	29·473	29 697	30 001	—·026	?	46·5	?	52 3	?	?	86	—	0·0	—	Nil
	Darjeeling Hill Tracts	Darjeeling	23·116	22·704	22·960	—	—	55 3	33·5	52·8	38·2	45·5	+5·7	83	+13	3·9	—0·7	0·01
North Behar.	Purneah and North Bhagulpore.	Purneah	30·025	29 617	29 872	30·007	—·020	87·7	44·0	80·7	49·4	65·1	+0·2	75	+5	0·3	—0 8	Nil
	Mozufferpore	Mozufferpore						Observations discontinued.										
	Durbhunga	Durbhunga	29·991	29·606	29 839	30·017	—·017	87·9	?	87·3	?	?	?	68	—3	0·6	—1·0	Nil
	Chumparun	Motihari	29·919	29·541	29·770	30·014	0	88·2	41·9	79·6	49 2	64·4	+2·0	79	—	1·5	—	Nil
	Sarun	Chupra	29·959	29·597	29·810	30·015	—·013	88·3	46·1	81 6	52·5	67·1	+2·7	69	—	0·2	—	0·04
South Behar.	Shahabad	Dehree	29·815	29·415	29·676	30 050	+·010	91·3	47·5	84·0	56 8	70 4	+4·5	56	—	0·7	—	Nil
		Buxar	29 930	29·551	29 779	30 038	— 009	88·9	43 9	82·6	53·4	68·0	+2 8	54	—	1·0	—	0·01
		Arrah	29 906	29·581	29·814	30·022	+·003	90 5	42 6	82·8	51·8	67·3	+2·5	60	—	1 0	—	0·04
	Gya	Gya	29·777	29 413	29·641	30·010	—·305	91·4	50·6	83·7	57·4	70·6	+1·8	85	+3·1 ?	1·0	—1·3	Nil
	Patna	Bankipore	29·983	29·582	29·838	30·023	—·021	89·4	46·4	81·5	55·7	67·6	+2 3	53	—16	0·7	—1·7	0 03
	South Bhagulpore and Monghyr.	Bhagulpore	29·963	29·575	29·832	30·003	—·013	91·2	45·0	83 3	53 7	68·0	+2·2	61	—	0·5	—	0·02
	Sonthal Pergunnahs	Naya Doomka	29·041	29·251	29·540	30·028	—	92·6	44 0	84 2	53 4	68·8	—	57	—	0·1	—	Nil
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·075	27·767	27·967	30·047	—·002	86·9	40·8	80·9	55·9	68·4	+2·5	38	—10	0·6	—1·2	Nil
	Lohardugga and Manbhoom	Ranchee	27 989	27·636	27·836	30·033	—·002	87·2	46·6	81·6	55·3	68·4	+3·0	48	—	0·7	—	Nil
	Singbhoom	Chyebassa	29·301	29·009	29·244	30·041	—	93·7	47 5	87·1	57·3	72 2	—	61	—	0·4	—	Nil
Assam	Assam	Sibsagar	29·853	29·523	29 723	30·077	+·007	90·1	42·6	75·9	54·3	65·0	+2·2	98	+3	7·4	—1·4	0·96
		Dhubri	30 030	29·645	29·881	30·008	—·032	87·5	51·7	81 0	56·7	68·8	+3·1	80	0	0·6	—0 9	Nil
		Silchar*	30·030	29·711	29·914	30 025	—·032	89·4	47·7	83 7	50·6	70·0	+2·7	86	+1	2 8	—0·7	0·11

* Means of 27 days.

Bengal for the month of February 1890.

DISTRICT OBSERVATIONS.											
RAINFALL.											
Of month.					Since 18th May 1889.						
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
Nil	0 83	−0·83	0·0	1·8	74·95	56 46	+18·49	96 8	85·1	Pooree .. Gopalpore .. False Point ...	Pooree	Orissa.
0·02	0 81	−0·79	0·4	1 8	60 41	52·79	+13 62	93 8	81·5	Cuttack ...	Cuttack	
0·11	1·06	−0·95	0 8	2 3	50·07	54·37	−4·30	83·6	79·5	Balasore ...	Balasore	
0 07	1·38	−1·31	0·7	2 3	58 64	63·75	−5·11	100·9	88·0	Saugor Island ..	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
Nil	1·00	−1·00	0 0	2 0	46 39	52·57	−6 18	86·1	74 3	Midnapore ...	Midnapore	
Nil	1 25	−1 25	0 0	2 5	54 10	52 91	+1·19	92·1	92 8	Calcutta .	24-Pergunnahs, Howrah, and Hooghly.	
Nil	1 03	−1·03	0·0	2·2	43 89	47 74	−3 85	84 2	78 1	Burdwan ..	Burdwan	
Nil	0 73	−0 73	0·0	2 3	55 93	53 01	+2·92	83·9	84·5	Bankoora ..	Bankoora	
Nil	0 98	−0 98	0·0	2 5	52·46	52 60	−0 14	85 0	85 9	Ranigunge ...	West Burdwan and Beerbhoom.	
Nil	0 79	−0·79	0·0	2·0	51 17	51·34	−0 17	82 1	81·0	Berhampore ..	Moorshedabad	
Nil	1·04	−1·04	0·0	2·0	51 61	50 18	+1·43	88·0	80 2	Krishnagore ..	Nuddea	
Nil	1·11	−1·11	0·0	2 5	54 75	54·33	+0·42	97 9	87 1	Jessore ...	Jessore and Khoolna ...	
Nil	0 73	−0·73	0·0	2 0	100·35	114 51	−14 16	111·5	109 6	Chittagong ...	Chittagong	East Bengal.
0·44	0·20	−0·45	0·5	2 5	65·01	82 49	−16·68	99 0	116 7	Demagri ..	Chittagong Hill Tracts	
Nil	1 05	−1·05	0 0	2·1	78·41	78·06	+0 35	103 9	107·9	Barrisal ...	Backergunge	
0·07	1 05	−0·98	0 8	2·3	90 89	108 16	−17 27	114 0	110 4	Noakholly ..	Noakholly	
Nil	1·20	−1·20	0 0	2 3	62·21	56 92	+5 30	85 2	89·1	Furreedpore ..	Furreedpore	
Nil	1·20	−1 20	0·0	2·7	76 19	60 80	+15·39	107 0	94·0	Dacca ...	Dacca	
Nil	1·02	−1 02	0 0	2 6	56 62	70 33	−13·71	95 1	99 3	Commillah ...	Tipperah	
Nil	0 92	−0 92	0·0	1·8	68 78	68 23	+20·55	107 0	90·8	Mymensingh ...	Mymensingh	
Nil	0·78	−0 78	0·0	1 5	65·61	58 01	+7·60	103 7	79 3	Bogra ...	Bogra	
Nil	1·05	−1 05	0·0	2 0	58 37	54 40	+0·97	103 5	83 3	Serajgunge ..	Pubna	North Bengal.
Nil	0 70	−0 70	0 0	1 5	54·35	54 58	−0·23	90 3	78 6	Rampore Beauleah.	Rajshahye	
0·03	0·30	−0·56	0·5	2 1	39·79	54·81	−1·02	74 0	85 9	Maldah ..	Maldah	
Nil	0 48	−0·48	0 0	1·6	57 40	57 88	−0 39	83·5	79 8	Dinagepore ...	Dinagepore	
Nil	0·43	−0 43	0·0	1 4	85 87	74·26	+11 61	87 7	77 9	Rungpore	Rungpore	
Nil	0 39	−0 39	0·0	1 5	117 73	111·64	+6·09	105 4	98 6	Julpigoree ...	Julpigoree and Cooch Behar.	
Nil	0 67	−0·67	0 0	2 7	133·45	128 04	+11·41	127 6	116 4	Darjeeling ...	Darjeeling Hill Tracts.	
Nil	0 50	−0·50	0 0	1·4	75 00	59 18	+15·82	75·6	71·5	Purneah ..	Purneah and North Bhagulpore.	
0 02	0 39	− 0 37	0·2	1 5	48 85	43 93	+4 92	71 4	59 4	Mozufferpore ..	Mozufferpore	North Behar.
Nil	0·40	−0 40	0 0	1 2	52 11	45 12	+6 99	67 0	59·1	Durbhunga ..	Durbhunga	
Nil	0 38	− 0 38	0·0	1 2	63 96	47 17	+16·79	66 9	55 4	Motihari ..	Chumparun	
Nil	0 45	−0 45	0 0	1·3	40 13	43 43	−3 30	58 4	59 1	Chupra ..	Sarun	
0·02	0 40	−0 38	0 2	1·3	40 00	40·48	−0 39	68 0	62 4	Dehree .. Buxar .. Arrah ..	Shahabad	South Behar.
0 02	0 42	−0 40	0 2	1 4	37·00	42 04	−4 93	64 0	59·2	Gya	Gya	
0·01	0 41	−0·40	0·2	1 3	45·50	41 73	+1·77	63 4	63·6	Bankipore .	Patna	
0·04	0 52	−0 48	0 6	1 4	42 47	43 69	−1 22	70 0	67 7	Bhagulpore ..	South Bhagulpore and Monghyr.	
Nil	0·47	−0·47	0 0	1·4	54·15	51 26	+2 89	83 1	77·3	Naya Doomka .	Sonthal Pergunnahs ...	
Nil	0·59	−0 59	0 0	1 5	43 03	51·05	−8·02	83·8	82 7	Hazaribagh	Hazaribagh	Chutia Nagpur.
Nil	0 72	−0 72	0·0	2 0	44·34	49 85	−5·51	82 1	88·3	Ranchee ..	Lohardugga	
Nil	0 94	−0 94	0 0	2 3	88 30	47 80	−9·50	97·1	88 3		Manbhoom	
Nil	0·84	−0 84	0 0	2 2	48 76	52 42	−3 66	100 0	94·5	Chyebassa ..	Singbhoom	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sibsagar .. Dhubri .. Silchar ..	Assam ..	Assam
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			

Table of Rainfall recorded at Stati

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Orissa ...	Pooree ...	Pooree ...																			
		Khurdah ...																			
		Banpur ...																			
		False Point ...																			
		Gop ...																			
		Pipli ...																			
	Cuttack ...	Jaratsingpore																			
		Banki ...																			
		Cuttack ...																			
		Kendrapara ...																			
		Jajpore ...																			
		Dharmsalla ...																			
		Salipore ...																			
	Balasore ...	Chandbali ...																			
		Bhuddruck ...																			
		Sorah ...																			
		Balasore ...																			
		Jellasore ...																			
		Baripodah ...																			
South-West Bengal.	Midnapore ...	Contai ...																			
		Saugor Island																			
		Tumlook ...																			
		Midnapore ...																			
		Ghatal ...																			
		Kukrahaty ...																			
		Garbeta ...																			
	24-Pergunnahs	Diamond Harbour.																			
		Canning Town																			
		Alipore Jail ...																			
		Barrackpore ...																			
		Dum-Dum ...																			
		Baraset ...																			
		Bauserhat ...																			
	Howrah ...	Howrah ...																			
		Mohesreka ...																			
		(*Goloobsriah*).																			
	Hooghly ...	Serampore ...																			
		Hooghly ...																			
		Jehanabad ...																			
	Burdwan ...	Culna ...																			
		Burdwan ...																			
		Catwa ...																			
		Raneegunge ...																			
		Mankur ...																			
	Bankoora ...	Bankoora ...																			
		Bishenpore ...																			
		Malara ...																			
		Khatra ...																			
		Judas ...																			
		Kutalpore ...																			
		Anda ...																			
		Gangajalghati ...																			
		Raipore ...																			
		Sonamukhi ...																			
	Beerbhoom ...	Rh. Soory ...																			
		Hetampore ...																			
		Rampore Haut																			
		Nilpur ...																			
		Murarai ...																			
	Nuddea ...	Ranaghat ...																			
		Kishnaghur ...																			
		Chooadanga ...																			
		Meherpore ...																			
		Koushtea ...																			
	Khoolna ...	Satkhira ...																			
		Bagirhat ...																			
		Khoolna ...																			
		Nakipur ...																			
		Rampal ...																			
	Jessore ...	Narail ...																			
		Jessore ...																			
		Jhenidah ...																			
		Magoorah ...																			
		Bongong ...																			
	Moorshedabad	Kandi ...																			
		Berhampore ...																			
		Lalbagh ...																			
		Azimgunge ...																			
		Jungipore ...																			
		Lalgola ...																			
		Jiagunge ...																			
		Akhriganj ...																			
		Patkabari ...																			
East Bengal	Chittagong ...	Cox's Bazar ...																			
		Chittagong ...																			
		Kutubdia ...																			
		Sitakunga ...																			
	Chittagong Hill Tracts.	Rangamati ...																			
		Rama ...																			

n Bengal in February 1890.

21	22	23	24	25	26	27	28	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 28th Feb. 1890.	Average rainfall from 1st January up to 28th February.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	Nil	1·7	Nil	1·10	Nil	0·08	1·36	Pooree ...	Pooree ...	ORISSA.
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·72	Nil	Nil	0·99	Khurdah.		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·89	Nil	Nil	0·97	Banpur		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·88	Nil	0·20	1·46	False Point.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gop.*		
									?		?			?	*Pipli.*		
...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·61	Nil	0·52	0·96	Jagatsingpore.	Cuttack.	
...	...	...	...	...	0·07	...	0·02	2	2·7	0·09	0·64	0·07	0·09	0·84	Banki.		
...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·56	Nil	Nil	0·96	Cuttack.		
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·73	Nil	0·21	1·17	Kendrapara.		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	1·21	Nil	Nil	1·74	Jajpore.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Salipore.*		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·08	Nil	0·40	1·50	Chandbali ..	Balasore.	
...	...	...	...	...	0·30	...	...	1	2·3	0·30	1·32	0·30	0·30	1·71	Bhuddruck.		
...	...	...	...	...	...	...	...	Nil	1·9	Nil	0·84	Nil	Nil	1·09	Sorah.		
...	...	...	...	...	...	...	0·20	1	2·0	0·20	1·27	0·20	0·20	2·00	Balasore.		
...	...	...	...	...	...	...	0·15	1	2·1	0·15	1·02	0·15	0·15	1·74	Jellasore.		
...	...	...	...	...	...	...	...	Nil	2·5	Nil	0·74	Nil	Nil	1·00	Baripodah.		
...	...	...	...	...	...	...	0·00	1	1·8	0·00	1·38	0·09	0·14	1·69	Contai ...	Midnapore ...	SOUTH-WEST BENGAL
...	...	...	...	...	...	...	0·11	1	2·3	0·11	1·17	0·11	0·11	1·51	Saugor Island		
...	...	...	...	...	...	...	...	Nil	1·6	Nil	1·16	Nil	0·20	1·54	Tumlook.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·84	Nil	Nil	1·56	Midnapore.		
...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·80	Nil	0·11	1·40	Ghatal		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·19	?	*Kukrahaty.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	0·91	Nil	Nil	1·41	*Garbeta.*		
...	...	...	...	...	...	...	...	Nil	2·9	Nil	1·68	Nil	0·38	2·32	Diamond Harbour.	24-Pergunnahs.	
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·05	?	*Canning Town.*		
...	...	...	...	...	...	...	...	Nil	3·1	Nil	1·47	Nil	1·07	1·18	Alipore Jail.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·27	Nil	0·33	1·72	Barrackpore.		
...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·12	Nil	0·85	1·64	Dum-Dum.		
...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·29	Nil	1·10	1·88	Barasat.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·04	Nil	1·49	1·46	Buseerhat.		
...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·26	Nil	0·52	1·85	Howrah ..	Howrah.	
...	...	...	...	...	...	...	...	Nil	2·5	Nil	1·45	Nil	0·40	1·95	Mohesreka (*Colooberiah*).		
...	...	...	...	...	...	...	...	Nil	2·9	Nil	1·24	Nil	0·36	1·60	Serampore ...	Hooghly.	
...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·38	Nil	0·61	1·83	Hooghly.		
...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·27	Nil	0·45	1·66	Jehanabad.		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·08	Nil	Nil	1·54	Culna ...	Burdwan.	
...	...	...	...	...	...	...	...	Nil	2·4	Nil	0·77	Nil	0·18	1·11	Burdwan.		
...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·16	Nil	Nil	1·61	Cutwa.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·19	Nil	0·07	1·52	Raneegunge.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·09	?	*Mankur.*		
...	...	...	...	...	...	...	...	Nil	2·4	Nil	1·08	Nil	0·07	1·45	Bankoora	Bankoora.	
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·70	Nil	Nil	1·08	Bishenpore.		
...	...	...	...	...	...	...	...	Nil	2·0	Nil	0·58	Nil	0·11	0·91	Mahara.		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·54	Nil	Nil	1·02	Khatra.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Indas.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Kotalpore.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Anda.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	Gangajalghati.		
...	...	...	...	...	...	...	...	Nil	?	Nil	0·77	Nil	Nil	1·06	*Empore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·11	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·93	Nil	Nil	1·39	Bh. Soory ...	Beerbhoom.	
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·97	Nil	Nil	1·48	Hetampore.		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·84	Nil	Nil	1·37	Rampore Haut		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·07	?	*Bolpur*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Murarai.*		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·93	Nil	0·30	1·39	Ranaghat ..	Nuddea.	
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·02	Nil	Nil	1·44	Kishnaghur.		
...	...	...	...	...	...	...	...	Nil	1·9	Nil	1·11	Nil	0·05	1·42	Chooadanga.		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·02	Nil	0·10	1·33	Meherpore.		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·11	Nil	0·15	1·49	Kooshtea.		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·93	Nil	2·03	1·33	Satkhira	Khoolna	
...	...	...	...	...	...	...	...	Nil	1·5	Nil	1·31	Nil	1·48	1·00	Bagerhat.		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·23	Nil	1·14	1·03	Khoolna.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Nakipur.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·37	?	*Rampal.*		
...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·16	Nil	2·54	1·84	Narail .	Jessore.	
...	...	...	...	...	...	...	...	Nil	2·7	Nil	0·85	Nil	1·55	1·36	Jessore		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·10	Nil	0·18	1·44	Jhenidah.		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·05	Nil	0·43	1·36	Magoorah.		
...	...	...	...	...	...	...	...	Nil	1·5	Nil	1·10	Nil	1·63	1·43	Bongong.		
...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·85	Nil	Nil	1·27	Kandi ...	Moorshedabad.	
...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·95	Nil	0·12	1·39	Berhampore.		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·80	Nil	Nil	1·20	Lalbagh.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·70	Nil	Nil	1·32	Azimgunge.		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·71	Nil	Nil	1·15	Jungipore.		
...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·65	Nil	Nil	1·26	Lalgola.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·04	?	Jaikunge.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·25	?	*Akhriguaj.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·10	?	*Patkabari.*		
...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·49	Nil	Nil	1·26	Cox's Bazar ...	Chittagong ...	EAST BENGAL.
...	...	...	...	...	...	...	...	Nil	2·0	Nil	1·19	Nil	0·66	1·70	Chittagong.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kutubdia.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Satkanya.*		
...	...	...	...	...	...	...	0·88	1	2·4	0·83	1·14	0·88	0·16	1·70	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·61	Nil	Nil	1·20	Ruma.		

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
East Bengal —*concld.*	Backergunge...	Patuakhally ...	.	...	..	...	...	...	...	...	...	...	...	...	...	..	...	. .	...	...	...	...
		Perozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burrisal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhola ...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
		Gournaddi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bamphal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Noakholly ...	Noakholly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
		Fenny ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..
		Harishpore ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...
		Ramganj ...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore ..	Madaripore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Furreedpore...		...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dacca ..	Munshigunge	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dacca ...	.	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...
		Narainguage	..	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...
		Manickgunge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Joydebpore ...	.	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tipperah ...	Comilla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
		Brahmunberia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandra-pore.		..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nasirnagar...	...	...	..	...	...	...	..	...	..	...	...	..	...	...	...	...	...	...	...	...
		Daudkandi ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Kasba ...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham ...	..	...	..	...	...	...	...	...	...	..	.	...	...	...	...	...	...	...	...	...
	Mymensingh .	Kishoregunge	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Mymensingh	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...
		Jamalpore ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Netrokona ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Suburnakhally	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durgapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dewanganj ...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...
North Bengal	Pubna ...	Pubna ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Serajgunge ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogra ..	Sherpore ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowkhilla ...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bogra ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Panchbibi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahye ...	Beauleah ...	...	...	...	...	..	...	. .	...	..	...	...	...	...	..	...	..	...	...	...	...
		Nattore ...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naogaon ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lahore ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manda ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	.	...	...	...	...	...
		Chanchal ...	...	...	..	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol ...	...	...	...	..	...	...	...	...	...	...	..	..	...	...	...	..	...	...	...	...
		Sibganj ...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...
	Dinagepore ..	Mohadebpore	.	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Churamon ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
		Raigunge ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinagepore ...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...
		Baloorghat .	. .	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rungpore ..	Bhawanigunge (*Gyabanda*).	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rungpore ...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	...
		Kurigrum ..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagdugra ... (*Nilphamari*).	..	...	...	...	...	..	...	...	...	...	...	.	...	...	...	...	...	...	...	...
		Ulipore ...	...	..	...	...	...	...	...	...	...	...	...	.	...	...	...	...	..	...	...	...
	Julpigoree ..	Julpigoree ..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
		Alipore Doar	...	...	...	...	. .	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...
		Palaeotta ...	...	...	..	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
		Debigunj ...	...	...	.	...	..	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...
		Bhogotpore (*Nagrakatta*).	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar..	Dinhatta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cooch Behar ..	...	...	...	...	...	...	...	...	..	...	.	...	...	...	...	...	...	...	...	...
		Mickliguneo...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
		Mutabhanga...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Darjeeling Hill	Buxa ...	..	...	...	...	...	...	...	. .	..	..	..	...	...	...	..	...	...	...	...	...
		Silliguri ...	...	...	...	...	...	...	..		...	..	...	...	...	...	..	...	...	...	...	...
		Darjeeling ...	...	...	...	...	...	...	...	0·01	...		...	...	...	...	...	...	...	...	...	...
		Kalimpong ...	...	...	...	...	...	...	...	...	...	.	.	...	...	...	...	...	...	...	...	...
		Kurseong ...	. .	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Behar	Purneah .	Kissengunge	..	...	...	...	...	...	...	...	...	...	...	...	.	..	..	...	...	...	...	...
		Arrareah ...	...	...	...	...	...	...	...	...	..	..	...	...	...	..	...	...	...	...	...	...
		Purneah ...	...	...	...	...	...	...	...	...	.	.	...	...	...	...	...	...	...	...	...	...
		Gondwara ...	...	...	...	...	...	...	...	...	.	.	...	..	...	...	...	...	...	...	...	...
		Balarampore	...	...	..	...	...	...	..	...	...	...	...	...	...	..	..	...	...	...	...	...
		Matiarj ...	.	...	...	...	...	...	...	...	...	...	...	...	...	..	.	...	...	...	...	...
		Kaliaganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Bhagul-pore.	Maddapore ...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...
		Soorool ...	...	...	...	...	...	...	...	...	...	. .	...	...	.	...	...	. .	...	...	...	...
		Protabganj ...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...

n Bengal in February 1890—*continued.*

21	22	23	24	25	26	27	28	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 28th Feb. 1890.	Average rainfall from 1st January up to 28th February.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	Nil	1·8	Nil	1·13	Nil	0·46	1·00	Patuakhally	Backergunge.	EAST BENGAL—*concld.*
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·30	Nil	0·48	2·01	Perozepore.		
...	...	...	...	...	...	...	...	Nil	2·6	Nil	0·90	Nil	0·59	1·05	Burrisal.		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·83	Nil	0·83	1·41	Bhola.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gournaddi.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·23	?	*Bauphal.*		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·87	Nil	0·41	1·41	Noakholly ...	Noakholly.	
...	...	...	...	...	...	...	0·13	1	2·3	0·13	1·19	0·13	0·78	1·08	Fenny.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·36	?	*Harishpore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Ramganj.*		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	0·97	Nil	2·12	1 58	Madaripore ...	Furreedpore.	
...	...	...	...	...	...	...	...	Nil	2·6	Nil	1·29	Nil	1·80	1·03	Furreedpore.		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·22	Nil	1·76	1·02	Goalundo.		
...	...	...	...	...	...	...	...	Nil	2·5	Nil	1·35	Nil	1·18	1·00	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	...	Nil	2·0	Nil	1·01	Nil	2·76	1·31	Dacca.		
...	...	...	...	...	...	...	...	Nil	2·8	Nil	0·99	Nil	0 78	1·38	Narsingunge.		
...	...	...	...	...	...	...	...	Nil	2·4	Nil	1·15	Nil	1·68	1·59	Manickgunge		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·94	?	*Joydebpore.*		
...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·13	Nil	0·30	1·05	Agartola ...	Hill Tipperah.	
...	...	...	...	...	...	...	...	Nil	3·1	Nil	0 89	Nil	0·80	1·40	Comilla ...	Tipperah.	
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·89	Nil	1·15	1·43	Chandpore.		
...	...	...	...	...	...	...	...	Nil	2 8	Nil	1·30	Nil	2·44	2·07	Brahmunberia.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·68	?	*Ramchandra-pore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·80	?	*Nasirnagar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·44	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Kasba.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·39	?	*Laksham.*		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	0·86	Nil	1·24	1·43	Kishoregunge.	Mymensingh.	
...	...	...	...	...	...	...	...	Nil	1·9	Nil	1·18	Nil	1·09	1·37	Atia (*Tangail*).		
...	...	...	...	...	...	...	...	Nil	2·2	Nil	1·19	Nil	1·38	1·54	Mymensingh.		
...	...	...	...	...	...	...	...	Nil	1·5	Nil	1·07	Nil	0·87	1·30	Jamalpore.		
...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·40	Nil	0·35	0·30	Netrokona.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Subornakhally.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·30	?	*Durgapore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·08	?	*Sherepore Town*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·77	?	*Dewanganj.*		
...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·13	Nil	0·33	1 52	Pubna ...	Pubna ...	NORTH BENGAL.
...	...	...	...	...	...	...	...	Nil	1·7	Nil	1·01	Nil	0·25	1·46	Serajgunge.		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·00	Nil	0·01	1·25	Sherpore ...	Bogra.	
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0 85	Nil	1·48	1·21	Nowkhilla.		
...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·97	Nil	0·70	1·40	Bogra.		
...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·52	Nil	1·02	0·84	Panchbibi.		
...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·89	Nil	0·14	1·18	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·89	Nil	Nil	1·49	Nattore.		
...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·35	Nil	Nil	1·01	*Naogaon.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Lalpore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Maada.*		
...	...	...	...	...	0·06	...	...	1	1·6	0·06	0·73	0·06	0·06	1·37	Maldah ...	Maldah.	
...	...	...	...	...	...	...	...	Nil	2·4	Nil	0·06	Nil	Nil	1·17	Chanchal.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Gajol.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Sibganj.*		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·51	Nil	Nil	1·08	Mohadebpore...	Dinagepore.	
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·42	Nil	Nil	0·99	Churamon.		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·50	Nil	0·12	1·07	Kaigange.		
...	...	...	...	...	...	...	...	Nil	1·8	Nil	0·57	Nil	0·49	0·86	Dinagepore.		
...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·20	Nil	0·61	0 81	Balooghat.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·34	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·51	Nil	0·84	0 85	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0·38	Nil	0·57	0·82	Rungpore.		
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·31	Nil	0·65	0·82	Kurigram.		
...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·52	Nil	0·80	1·02	Baidogra. (*Nilphamari.*)		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·10	?	*Ulipore.*		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·30	Nil	0·18	0·84	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Alipore Doar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·80	?	*Falacotta.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·02	?	*Debiganj.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·71	?	*Bhogotpore* (*Negrakatta.*)		
...	...	...	...	...	...	...	...	Nil	1·6	Nil	0·34	Nil	0·53	0·88	Dinhatta		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·19	Nil	0 55	0 72	Cooch Behar...	Cooch Behar.	
...	...	...	...	...	...	...	...	Nil	1·5	Nil	0 28	Nil	1·03	0·55	Mickligunge.		
...	...	...	...	...	...	...	...	Nil	1·7	Nil	0 29	Nil	0·40	0·03	Matabhanga.		
...	...	...	...	...	...	...	...	1	3·0	0·01	0·92	0·01	1·29	2·04	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·23	Nil	0·31	1·05	Siliguri.		
...	...	...	...	...	...	...	...	1	3·8	0·01	1·14	0·01	0·41	1·83	Darjeeling.		
...	...	...	...	...	...	...	...	Nil	3·5	Nil	0·65	Nil	0 79	1·89	Kalimpong.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	1·98	?	Kurseong.		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·44	Nil	1·30	1·06	Kissengunge...	Purneah ...	NORTH BEHAR.
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·53	Nil	0·14	1·04	Airareah.		
...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·55	Nil	0·02	1·02	Purneah.		
...	...	...	...	...	0·02	...	...	1	?	0·02	?	0·02	0·02	?	*Gondwara.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Balarampore*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	Nil	?	*Matiari.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·20	?	*Kaliaganj.*		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·56	Nil	Nil	1·03	Maddapore	North Bhagul-pore	
...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·39	Nil	Nil	0·89	Soopool.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	0·31	?	*Protabganj.*		

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
North Behar —*contd.*	Durbhunga ...	Tajpore ...																				
		Durbhunga ...																				
		Madhubani ...																				
		Bahera ...																				
		Roshera ...																				
	Mozufferpore	Sitamarhi ...																				
		Mozufferpore																				
		Hajipore ...																				
		Paru ...																				
		Mahua ...																				
		Sirhar ...																				
		Pupri ...																				
	Chumparun ...	Motihari ...																				
		Bettiah ...																				
		Bagaha ...																				
		Barhurwa ...																				
	Sarun ...	Gopalgunge ...																				
		Sewan ...																				
		Chupra ...																				
South Behar	Shahabad ...	Buxar ...																				
		Dehree ...																				
		Bhubooah ...																				
		Sasseram ...																				
		Arrah ...																				
		Mohaniah ...																				
	Gya ...	Aurungabad ...																				
		Gya ...																				
		Nowadah ...																				
		Jehanabad ...																				
		Arwal ...																				
		Daudnagar ...																				
		Sheerghati ...																				
		Rajauli ...																				
		Pakri 'Barawan.																				
	Patna ...	Patna ...																				
		Dinapore ...																				
		Behar ...																				
		Barrh ...																				
		Bickram ...																				
		Hilsa ...																				
	Monghyr ...	Begoosarai ...																				
		Monghyr ...																				
		Jamui ...																				
		Gogri ...																				
		Sheikpura ...																				
	South Bhagulpore.	Bhagulpore ...																				
		Banka ...																				
		Kalgong ...																				
		Bangaon ...																				
	Southal Pergunnahs.	Rajmehal ...																				
		Godda ...																				
		Pakour ...																				
		Nya Doomka																				
		Deoghur ...																				
		Jamtara ...																				
		Mohagama ...																				
		Nanihat ...																				
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).																				
		Hazaribagh ...																				
		Somtagurrah ...																				
		Mahudi Hills ...																				
		Jhoomrah Hills ...																				
		Barki ...																				
		Chatra ...																				
		Karagdeha ...																				
		Ramghar ...																				
	Lohardugga ...	*Lohardugga* ...																				
		Ranchi ...																				
		Palamow ...																				
		Silli ...																				
		Balumat ...																				
		Hossinabad ...																				
		Garwah ...																				
	Singbhoom ...	Chyebassa ...																				
		Chakradharpore.																				
		Ghatsila ...																				
		Baharagura ...																				
	Manbhoom ...	Purulia ...																				
		Gobindpore ...																				
		Raghunathpore.																				
		Barrabhoom ...																				
		Jhalda ...																				
		Chas ...																				

Bengal for the month of February 1890—*concluded.*

21	22	23	24	25	26	27	28	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 28th Feb. 1890.	Average rainfall from 1st January up to 28th February.	Station.	District.	Meteorological division.
					0·01			1	1·1	0·01	0·38	0·01	0·14	1·02	Tajpore ...	Durbhunga ...	North Behar—*concld.*
								Nil	1·5	Nil	0·43	Nil	0·33	0·95	Durbhunga.		
								Nil	1·1	Nil	0·41	Nil	0·45	1·15	Madhubani.		
								Nil	?	Nil	?	Nil	Nil	?	*Bahera.*		
								Nil	?	Nil	?	Nil	Nil	?	*Reshera.*		
								Nil	1·3	Nil	0·30	Nil	0·39	0·83	Sitamarhi	Muzufferpore.	
								Nil	1·4	Nil	0·50	Nil	0·06	1·39	Muzufferpore		
					0·05			1	1·3	0·05	0·46	0·05	0·10	1·11	Hajipore.		
								Nil	?	Nil	?	Nil	Nil	?	*Paru.*		
								Nil	?	Nil	?	Nil	Nil	?	*Mahua.*		
								Nil	?	Nil	?	Nil	0·40	?	*Sirhar.*		
								Nil	?	Nil	?	Nil	0·56	?	*Pupri.*		
								Nil	1·3	Nil	0·38	Nil	0·54	0·75	Motihari ...	Chumparun.	
								Nil	1·1	Nil	0·41	Nil	0·28	1·10	Bettiah.		
					0·09			1	?	0·09	?	0·09	0·46	?	*Bagaha.*		
								Nil	?	Nil	?	Nil	Nil	?	*Burhurwa.*		
								Nil	1·5	Nil	0·49	Nil	Nil	1·26	Gopalgunge...	Sarun.	
					0·09			1	1·8	0·09	0·48	0·09	0·09	1·23	Sewan.		
								Nil	1·1	Nil	0·43	Nil	Nil	1·14	Chuprah.		
								Nil	1·6	Nil	0·32	Nil	Nil	1·11	Buxar ...	Shahabad ...	South Behar.
								Nil	1·9	Nil	0·30	Nil	Nil	0·82	Dehree.		
								Nil	1·2	Nil	0·49	Nil	Nil	1·17	Bhubooah.		
				0·05				1	1·3	0·05	0·48	0·05	0·05	0·98	Sasseram.		
					0·04			1	1·3	0·04	0·34	0·04	0·04	1·37	Arrah.		
								Nil	?	Nil	?	Nil	Nil	?	*Mohaniah.*		
								Nil	1·4	Nil	0·34	Nil	Nil	0·95	Aurungabad ..	Gya.	
								Nil	1·3	Nil	0·30	Nil	Nil	1·23	Gya.		
								Nil	1·1	Nil	0·46	Nil	Nil	1·16	Nowadah.		
					0·07			1	1·1	0·07	0·40	0·07	0·07	1·12	Jehanabad.		
								Nil	?	Nil	?	Nil	Nil	?	*Arwal.*		
								Nil	?	Nil	?	Nil	Nil	?	*Daudnagar.*		
								Nil	?	Nil	?	Nil	Nil	?	*Sheerghati.*		
								Nil	?	Nil	?	Nil	Nil	?	*Rajauli.*		
								Nil	?	Nil	?	Nil	Nil	?	*Pakri Barawan.*		
					0·03			1	1·3	0·03	0·47	0·03	0·03	1·16	Patna ...	Patna.	
								Nil	0·8	Nil	0·30	Nil	Nil	0·39	Dinapore.		
					0·02			1	1·3	0·02	0·33	0·02	0·02	1·10	Behar.		
								Nil	1·3	Nil	0·43	Nil	Nil	0·90	Barrh.		
								Nil	?	Nil	?	Nil	Nil	?	*Bickram.*		
					0·05			1	?	0·05	?	0·05	0·05	?	*Hilsa.*		
					0·06			1	1·3	0·06	0·38	0·06	0·06	1·09	Begoosarai ...	Monghyr	
					0·10			1	1·6	0·10	0·64	0·10	0·10	1·09	Monghyr.		
								Nil	1·3	Nil	0·40	Nil	Nil	1·31	Jamui.		
								Nil	?	Nil	?	Nil	Nil	?	*Gogri.*		
								Nil	?	Nil	?	Nil	Nil	?	*Sheikpura*		
					0·02			1	1·7	0·02	0·34	0·02	0·02	1·14	Bhagulpore ...	South Bhagulpore.	
								Nil	1·3	Nil	0·30	Nil	Nil	1·09	Banka.		
								Nil	?	Nil	?	Nil	Nil	?	*Kolgong.*		
								Nil	?	Nil	?	Nil	Nil	?	*Bangaon.*		
								Nil	0·9	Nil	0·46	Nil	Nil	0·65	Rajmehal ...	Sonthal Pergunnahs.	
								Nil	1·3	Nil	0·34	Nil	Nil	0·89	Godda.		
								Nil	1·2	Nil	0·67	Nil	Nil	1·30	Pakour.		
								Nil	2·1	Nil	0·63	Nil	0·02	1·23	Nya Doomka.		
								Nil	1·6	Nil	0·53	Nil	Nil	1·06	Deoghur.		
								Nil	1·1	Nil	0·50	Nil	Nil	0·96	Jamtara		
								Nil	?	Nil	?	Nil	Nil	?	*Mohagama.*		
								Nil	?	Nil	?	Nil	Nil	?	*Nahabat.*		
								Nil	1·9	Nil	0·69	Nil	Nil	1·08	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
								Nil	2·5	Nil	0·74	Nil	Nil	1·39	Hazaribagh.		
								Nil	1·3	Nil	0·38	Nil	Nil	1·03	Somtagurah.		
								Nil	1·3	Nil	0·53	Nil	Nil	1·30	Mahudi Hills.		
								Nil	1·4	Nil	0·36	Nil	Nil	0·85	Jhoomrah Hills		
								Nil	?	Nil	?	Nil	Nil	?	*Barhi.*		
								Nil	?	Nil	?	Nil	Nil	?	*Chatra.*		
								Nil	?	Nil	?	Nil	Nil	?	*Karaggola.*		
								Nil	?	Nil	?	Nil	Nil	?	*Ramghar.*		
								Nil	1·8	Nil	0·49	Nil	Nil	1·33	Lohardugga ...	Lohardugga.	
								Nil	2·7	Nil	1·02	Nil	Nil	1·81	Ranchi.		
								Nil	1·7	Nil	0·50	Nil	Nil	1·27	Palamow.		
								Nil	?	Nil	?	Nil	Nil	?	*Silli.*		
								Nil	?	Nil	?	Nil	Nil	?	*Balumat.*		
								Nil	?	Nil	?	Nil	Nil	?	*Hossmabad.*		
								Nil	?	Nil	?	Nil	Nil	?	*Garwah.*		
								Nil	2·3	Nil	0·84	Nil	Nil	1·57	Chyebassa ...	Singbhoom.	
								Nil	?	Nil	?	Nil	Nil	?	*Chakradharpore.*		
								Nil	?	Nil	?	Nil	Nil	?	*Ghatsila.*		
								Nil	?	Nil	?	Nil	Nil	?	*Baharagora.*		
								Nil	2·5	Nil	0·94	Nil	0·06	1·36	Purulia ...	Manbhoom.	
								Nil	2·0	Nil	0·88	Nil	Nil	1·39	Gobindpore.		
								Nil	?	Nil	?	Nil	Nil	?	*Raghunathpore.*		
								Nil	?	Nil	?	Nil	Nil	?	*Barrabhoom.*		
								Nil	?	Nil	?	Nil	Nil	?	*Jhalda.*		
								Nil	?	Nil	?	Nil	Nil	?	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF FEBRUARY 1890.

THE normal meteorological conditions obtaining in Bengal during February are to a considerable extent similar to those of January; but during February, and particularly towards its close, the transition period between the cold and hot season commences to make itself felt. One of the most important features of February is undoubtedly the rather rapid increase of temperature which commences in this month and which continues during the following two or three months. This increase is due to the rapidly increasing elevation of the sun, and this heating effect is much more pronounced over the land area than over the sea, so that the dry northerly winds at the southern stations commence to be replaced by moist southerly winds blowing from the sea. The normal conditions in February are therefore comparatively simple. Winds continue generally northerly and north-westerly, except at the southern stations. The sky is clear, and unless conditions are changed by the occurrence of storms, no rain falls. Pressure remains high, while temperature steadily rises, though the night temperatures usually remain fairly low. Humidity also continues low over the greater part of the province except at the southern stations, where the southerly winds set in when rapid and large changes in humidity occur. These normal conditions are, however, liable to be disturbed by the formation or advance of barometric depressions or storms over Northern and Central India which drift eastwards and southwards, giving heavily-clouded skies, a moist atmosphere and rain to Bengal and Behar, the rainfall during such storms being generally fairly well distributed. Occasionally also by the interaction of the moist sea winds with the dry land breezes local storms, called nor'-westers, are produced which give rainfall, which is only local and very irregularly distributed. Such storms are, however, generally confined to the close of the month, and when they do occur they are sometimes rather violent and attended with more or less severe hailstorms.

The whole of the rainfall in February is therefore brought about by these abnormal conditions, and it is generally small in amount and somewhat irregularly distributed, though usually larger than in January. The normal fall averages from about an inch in East and South-West Bengal and Orissa, and rather more than half an inch in North Bengal and Chutia Nagpur, to about four-tenths of an inch in Behar.

Meteorology of the month.—The important features in the meteorology of February 1890 in Bengal have been—

1*st.*—Pressure has been in defect of the normal in all districts, the usual defect averaging about two-hundredths of an inch, and being decidedly larger in East Bengal and parts of Assam than it has been elsewhere, and the defects being smallest in the western districts of Behar.

2*nd.*—Temperature has varied very largely during the month. It was considerably below the normal in the first week, about normal in the second week, and about three or four degrees above it for the remainder of the month.

3*rd.*—The variations of humidity from the normal have been considerable but about equal numbers of stations have shown defective and excessive humidity, so that the general average is not very far from normal. Cloud proportion has in all districts been very considerably below the normal, the defects in several cases ranging up to about twenty per cent.

4*th.*—There has been a singular absence of influential barometric depressions or storms visiting the province during February, and though two such depressions have affected the weather slightly, in no case have these depressions been of sufficient importance to be classed as storms, and in no case have they given any general heavy rainfall to any large districts.

5*th.*—The rainfall of February has been therefore confined to a few local showers of little or no importance, and in no district have the falls averaged more than three or four-hundredths of an inch; while South-West Bengal, North Bengal, and Chutia Nagpur have been rainless.

At the close of January two barometric depressions or disturbances had passed through the province, and had given fairly general rain to most of the stations in the plains, while along the line of the hills to the north and north-west of the province snow had fallen. A cold wave of northerly winds then set in over Bengal, and the general weather conditions during the early part of February became those of the north-east monsoon or cold weather in a pronounced form. These conditions lasted throughout the whole of the first week of February, during which skies were almost cloudless, temperature and humidity were decidedly low, while pressure was high, and there was a complete absence of rain. During the second week of the month there were no very large changes in the meteorological conditions from day to day, but there was a steady but slow tendency for the disappearance of the north-east monsoon or cold-weather conditions, and towards the gradual establishment of the conditions which accompany or immediately precede the transition conditions between the hot and cold seasons. There was therefore during this period a steady increase of temperature accompanied by rather high humidity at the southern stations, while also gradually southerly winds commenced to establish themselves over the province. In the third week the general result of the meteorological changes was to entirely efface the conditions which obtain during the cold season and to almost bring about the hot weather conditions. During this week

there was a slight break in the gradual establishment of the hot season conditions during the passage of a barometric depression through the province. This depression was first observed at Jacobabad on the morning of the 15th, and it gradually moved in an easterly direction and passed through Bengal on the 17th and 18th instants. In front of the depression, as usual, temperature was very high, but after it had passed away in an easterly direction, temperature in Bengal fell very decidedly. The effect was, however, only very temporary, and temperature rapidly again became above the normal. Though this depression was a decidedly influential one, as judged by the fall of pressure, yet it was practically of little importance, as it was unaccompanied by rain. Up to the 25th hot weather conditions again commenced to re-establish themselves, but on this date, owing to certain barometric changes which had been taking place, a distinct but feeble low-pressure area was formed over North Bengal and part of Behar. This slight disturbance appears to have been sufficiently influential to produce a few local storms with light rain, and from the 26th to the end of the month a few more or less isolated showers were reported in Behar, North Bengal, and Orissa. Before the close of the month, however, the slight depression had practically entirely filled up, and conditions were those which usually accompany the gradual setting in of the hot weather. The month, therefore, has been characterised by the almost complete absence of any influential storms, and thus rainfall has been almost entirely absent in all districts.

Pressure.—Was during the first week of the month decidedly in excess of the normal, the average excess ranging from four to seven-hundredths of an inch. In the second week this excess had decreased considerably, and it only amounted to between two and four-hundredths of an inch. In the third week conditions had become entirely reversed, and there was a defect which in different districts varied from nine to twelve-hundredths of an inch; while in the fourth week pressure was still in defect, but the defect had decreased usually to between three and four-hundredths of an inch; though in North Bengal and North Behar, owing to the formation of the slight depression above alluded to, the defect equalled from four to six-hundredths of an inch. For the whole month the mean average pressure has been in distinct defect of the normal, the usual defect equalling about two or three-hundredths of an inch; the defects being comparatively large in East Bengal and parts of Assam, and decidedly small in the western parts of Behar.

Temperature.—The average mean temperature for the first week in February was 1·6° in defect of the normal. In the second week temperature had become almost normal. In the third week a general rise in the mean temperature of from four to six degrees took place, and temperature became from four to five degrees above the normal of the period; and in the fourth week there was again a general rise in the mean temperature of the province by about one and-a-half to three degrees, though in this period the actual temperatures were only about three degrees in excess of the normal. For the whole month, therefore, the mean temperature of the province has been about 1·6° in excess of the normal, the excess being largest in such districts as North Bengal, South Behar, and Chutia Nagpur, where it ranged from two to three degrees. In Assam also the mean excess was 2·7°.

The following table shows generally the variation of the mean temperature at nine typical stations in different districts in Bengal, week by week, for the normal temperature:—

Stations.	Week ending 7th February 1890.			Week ending 14th February 1890.			Week ending 21st February 1890.			Week ending 28th February 1890.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack	−2·4	−1·1	−1·7	+0·6	+0·2	+0·5	+3·6	+1·4	+2·5	+2·6	+1·3	+2·0
Calcutta	−1·9	−3·3	−2·5	+1·3	−3·6	−1·1	+3·4	+4·3	+3·8	+3·0	+0·6	+1·9
Dacca	−1·9	−4·2	−3·0	+1·2	−2·2	−0·4	+4·2	+4·7	+4·4	+2·3	+2·0	+2·1
Burdwan	−1·2	−4·3	−2·7	+2·7	−4·0	−0·6	+7·0	+4·0	+5·5	+4·1	+1·0	+2·6
Patna	0	−3·1	−1·6	+4·2	+0·5	+2·4	+6·0	+4·1	+5·0	+3·4	+3·7	+3·6
Gya	−1·2	−1·3	−1·3	+3·3	+0·3	+1·8	+5·1	+3·3	+4·4	+1·6	+3·8	+2·7
Purneah	−1·4	−4·6	−3·0	+2·4	−1·9	+0·3	+3·3	+0·3	+2·0	+2·2	+1·5	+1·9
Hazaribagh	+0·4	−1·2	−0·5	+3·3	+2·3	+3·1	+5·9	+5·1	+5·4	+3·0	+2·0	+2·6
Darjeeling	+10·7?	+3·5	+7·1?	+6·4	+6·8	+6·8	+5·8	+5·7	+5·8	+5·6	+2·7	+4·2

Rainfall.—Except for a few light showers in the Chittagong Hill Tracts and in a few districts in Behar and Orissa, the whole province of Bengal has been practically rainless for the month. In Assam, however, a few showers have been reported at Sibsagar, which registered 0·96 inch, and at Silchar, which has received 0·11 inch of rain.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of February 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa*	98·4	48·4	85·8	64·1	74·9	+0·2	0·05	0·91	−0·86	0·3	2·0	−0·7	62·15	54·87
South-West Bengal	96·3	44·9	86·1	58·3	71·7	+1·2	Nil	1·05	−1·05	0·0	2·1	−2·1	52·81	53·00
East Bengal	90·6	47·0	82·4	57·6	70·0	+1·1	0·04	1·03	−0·99	0·1	2·2	−2·1	76·60	75·31
North Bengal*	94·5	42·7	82·6	52·6	67·7	+2·5	Nil	0·57	−0·57	0·0	1·6	−1·6	73·54	71·00
North Behar*	88·3	41·9	80·6	50·4	65·5	+1·6	0·01	0·43	−0·42	0·1	1·3	−1·2	57·90	49·28
South Behar	92·6	42·6	83·2	54·2	68·7	+2·7	0·02	0·44	−0·42	0·3	1·4	−1·1	44·18	44·30
Chutia Nagpur	87·2°	46·6°	81·3°	55·6°	68·4°	+2·3°	Nil	0·67	−0·67	0·0	1·9	−1·9	43·98	50·24
Assam	89·4	42·6	80·2	55·8	68·0	+3·7								

* Pooree, Julpigoree, Durbhanga, and Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL,
The 11th March 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of February 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	30·036	
	°	
The mean temperature at 10 A.M. during the month	75·8	
The highest temperature during the month	92·0	26th
The lowest temperature during the month	52·4	2nd and 3rd.
The absolute range of temperature during the month	39·6	
The mean daily range of temperature during the month ...	24 2	
The greatest range of temperature in one day during the month ...	29·0	12th.
	%	
The mean 10 A.M. humidity during the month	55	
	Inches.	
The mean 10 A.M. vapour tension during the month	·486	
The total rainfall of the month	Nil.	
The greatest fall in 24 hours	Nil.	
	Days.	
The number of rainy days in the month	Nil.	

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,
The 10th March 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th March 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Mar 1890 ...	2nd ...	30 019	76·2	83·9	15·5	68·4	73·6	66·6	·560	62·2	67	0·04
,, ,, ...	3rd ...	·049	77·5	89·0	23 1	65·9	80·6	72 4	·686	68·0	65	.....
,, ,, ...	4th ...	·044	79 6	90·0	20 9	69·1	82·6	74·5	·747	70·5	67	.. ..
,, ,, ..	5th ...	·077	77·8	85 1	14 7	70·4	79·1	66·0	·465	56·9	47	.....
,, ,, ...	6th ...	·027	77·1	87·7	21·3	66·4	79·8	69·6	·588	63·5	58	... ..
,, ,, ...	7th ...	29 995	77·6	87 8	20·5	67·3	79·3	67·6	·520	60·1	52	.....
,, ,, ...	8th ...	·964	77·2	90 0	25·6	64·4	82·0	72·6	·675	67·6	61	.....

	Inches.
The mean 10 A.M. pressure of the seven days	30·025
	°
The mean temperature of the seven days	77·6
The extreme variation of temperature	25·6
The maximum temperature	90·0
	%
The mean 10 A.M. relative humidity of the seven days	60
	Inches.
The total fall of rain from 2nd to 8th March 1890	0·04

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 10th March 1890.

Meteorological Report of the Province of Beng

Meteorological Division.	District.	Representative station.	Station Observations.														
			Air pressure.			Wind.		Temperature.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree ...	30·001	30·018	—	Variable	237	87·2	1st Mar.	?	?	86·1	?	?	?	76·
		Gopalpore ...	29·986	30·008	+·006	sW & NW	326	85·7	7th ,,	70·4	2nd Mar.	84·7	73·6	79 1	+1·4	78·
		False Point ...	29·991	30·013	+·034	SW	206	80·5	3rd ,,	66·5	3rd, 6th,,	85 6	68·5	77·1	—0 9	75·
	Cuttack	Cuttack ...	29·940	30·023	+·036	Calm	54·7	96·4	2nd, 6th,,	60·8	3rd ,,	93·8	70 8	82·1	—1·1	74·
	Balasore	Balasore ..	29·966	30·027	+·054	NNW	94·4	91·4	5th ,,	61·6	3rd ,,	87·5	66·5	77 0	—1·8	76·
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·909	30 024	+·056	NW & SW	261	86 2	6th ,,	71·5	3rd ,,	84 3	74 2	79·2	+0·1	76·
	Midnapore	Midnapore ..	29·870	30 025	+·054	Variable	119·1	94·3	5th ,,	63 6	1st ,,	91·3	66 7	79·0	—1·2	72·
	24-Pergunnahs ... .. / Howrah ... .. / Hooghly	Calcutta	30·002	30·024	+·055	Westerly	82	88 5	5th ,,	63·8	1st ,,	86·1	66 6	76·4	—1·0	71
	Burdwan ...	Burdwan	29 905	30 009	+ 038	Calm	54·4	92·8	5th ,,	58·4	1st ,,	89 6	64 0	77 2	—0·1	70
	Bankoora	Bankoora ...	29·883	29·996	+·037	Calm	80·4	92·1	4th ,,	61·3	1st ,,	80·3	64·6	76·9	0	69
	Beerbhoom ... .. / West Hurdwan	Banecgunge	29·991	30·037	+·062	South-westerly.	66·7	92 8	4th ,,	59 8	7th ,,	80·6	64·0	76·8	—0·3	69
	Moorshedabad	Berhampore...	29·930	30·000	+ 036	South-westerly	84·0	89·6	2nd, 4th, 5th Mar	55 7	1st ,,	86·5	63 6	74·5	—1·3	69·1
	Nuddea	Krishnaghur...	29·966	30·034	+·007	Variable	104·9	91·9	4th ,,	54 8	1st ,,	80·2	63 3	75·7	+0·7	71 6
	Jessore ... .. / Khoolna	Jessore ...	29·980	30 015	+·062	Calm	55·3	91·8	4th, 5th ,,	61 8	1st ,,	88 1	65 4	76·8	—0·9	70·1
East Bengal.	Chittagong	Chittagong	29 931	30·024	+·028	Calm & Westerly.	51·6	89·6	5th, 6th,,	65·0	4th, 7th,,	88 2	66 3	77·2	+2·4	72·8
	Chittagong Hill Tracts	Demagiri ..	Observations not received.													
	Backergunge	Barrisal ...	30·013	30·026	+·072	Calm	55·9	88·3	4th Mar.	62·6	1st ,,	24·6	67·7	76·1	—0 5	73·6
	Noakholly	Noakholly ...	29·990	30·035	+·002	Northerly	92·0	87·0	5th ,,	61·0	3rd ,,	85·5	65·7	75·6	+0·5	74·4
	Furreedpore	Furreedpore..	29·996	30·036	+·008	South-westerly.	64·1	85 5	2nd, 6th,,	51·5	1st ,,	84·9	62·4	73·6	—0·7	71·9
	Dacca	Dacca ..	29·980	30 003	+·037	Westerly	75 3	91·1	5th ,,	61·3	1st ,,	87·0	64 3	75·7	—0·9	69·5
	Commillah	Commillah ..	29·983	30·020	+·048	Southerly	48·3	89·4	4th, 5th ,,	63·9	4th ,,	84·7	65·6	75·1	+0·2	71·3
	Mymensingh	Mymensingh	29·950	30·019	+ 041	ENE	70 7	86 6	5th ,,	55 7	7th ,,	84·5	61·9	73·8	+0 8	67·9
North Bengal.	Bogra	Bogra ..	29·915	29·981	+·048	Calm	50·8	89·3	5th ,,	54 9	1st ,,	87·3	59·7	73·5	+0·6	66·1
	Pubna	Serajgunge ..	29·950	29·998	+·047	SW	46 1	90·1	5th ,,	54·9	1st ,,	86·6	59·6	73·1	—1·0	67··
	Rajshahye	Rampore Beauleah.	29 925	29·998	+ 050	SW	96 9	86·3	2nd & 5th Mar.	55 7	1st ,,	85 7	60 3	73·0	—0·3	67·
	Maldah	Maldah ...	29·922	30·006	+·106	SW	71·5	80·8	4th ,,	52·6	1st ,,	87·6	56·2	71·9	—0·2	69·9
	Dinagepore	Dinagepore ..	29·878	30·005	+·028	NW & bW	98·9	87·1	2nd—4th Mar.	50 2	1st ,,	80 0	57·8	71 9	+0·1	65·8
	Rungpore	Rungpore ...	29·889	30 019	+ 070	Easterly	73·6	85 3	3rd ,,	48 0	1st ,,	85·0	56·4	70·7	—0·6	64 7
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·703	30·003	+·048	NE & NW	94·6	85·6	1st & 7th Mar.	48·9	4th & 7th Mar.	82·9	54·5	68·4	—1·9	64·8
	Darjeeling Hill Tracts ..	Darjeeling ..	22·970	—	—	Variable	16s·0	55·6	4th ,,	37·1	7th ,,	53 5	38·6	46·1	—3·1	44·0
North Behar.	Purneah ... ... / North Bhagulpore ...	Purneah ...	29 806	29·999	+·049	Variable	81·9	80·7	3rd ,,	49·0	1st ,,	84 1	58·2	69·1	—2·0	64·5
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ...	29·883	30 009	+·060	Westerly	93·0	87·2	4th Mar.	?	?	83·2	?	?	?	64·3
	Chumparun	Motihari ...	29·774	30·015	+·074	WSW	159·6	86·2	4th ,,	49·9	3rd ,,	81·9	53·6	67·8	—1·7	60·2
	Sarun	Chupra .	29·796	29·999	+·061	WSW	81·9	85·5	7th ,,	52·0	3rd ,,	80·9	57·1	69·0	—2·3	67·2
South Behar.	Shahabad	Dehree ..	29·868	30·189	+·061	SW	152 6	90·8	4th ,,	57·0	2nd ,,	85·0	62·2	73·6	+1·4	66 9
		Buxar ..	29·782	30 037	+·088	Westerly	116·0	91 4	4th ,,	59 4	1st & 7th,,	85·1	61·2	73·6	+0·3	65·6
		Arrah ..	29·815	30·019	+·072	Variable	97 9	91·4	4th ,,	50·2	1st ,,	86·7	59·6	73·1	0	66 8
	Gya	Gya ..	29 821	30·017	+·033	S	124·3	91·0	4th ,,	60·8	2nd ,,	85·8	52·9	74·3	—1·8	67·4
	Patna	Bankipore ..	29 828	30 020	+·030	Westerly	68·9	89 6	4th ,,	57·8	1st ,,	83 3	60·6	72·0	—0·5	69 2
	South Bhagulpore / Mongnyr	Bhagulpore ..	29·821	29·990	+·042	Calm	26·4	89·5	4th ,,	57 0	3rd ,,	80·1	60·8	73·4	+0·2	69 2
	Sonthal Pergunnahs ...	Doomka ..	29·407	30 0.5	+0·53	SW	72·7	90·7	4th ,,	55·8	1st ,,	87·6	61·1	74·3	—1·0	69·0
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·971	30·036	+·040	Westerly.	100·2	87·2	4th ,,	57·0	7th ,,	82 5	59·8	71·1	—1·3	66·4
	Lohardugga ... ... / Manbhoom	Ranchee ..	27·840	30 031	+·043	North-westerly.	125·0	88·4	1st ,,	57·5	1st ,,	81·7	59·0	70·4	—1·4	67 0
	Singbhoom	Chyebassa ...	29·237	30 026	+0·08	South-westerly.	45·4	94·2	5th ,,	60·8	1st ,,	80·4	63·9	70·8	—0·7	69·4

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 7th of March 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing stations.	Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for district.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
83	8·7	Nil	0·06	0·17	0·06	0·17	−0·11	75·00	56·63	+18·37	0·3	0·5	Pooree	Pooree	Orissa.
75	1·0	Nil											Gopalpore		
85	6·3	0·24											False Point		
75	5·4	Nil	0 01	0·22	0·01	0·22	−0·21	66·42	53 01	+13·41	0·2	0·5	Cuttack	Cuttack	
86	0·4	0 42	0·07	0·17	0·07	0·17	−0·10	50·14	54·54	−4·40	0·3	0·5	Balasore	Balasore	
79	6·7	Nil	Nil	0·33	Nil	0·33	−0·33	58·64	64·08	−5·44	0·0	0·6	Saugor Island	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
67	3·1	0·20	0·08	0·49	0·08	0·49	−0·41	46·47	53 06	−6·59	0·3	0·7	Midnapore	Midnapore	
80	4·1	0·03	0·22	0·44	0·22	0 44	−0·22	54·31	53 35	+0·97	0·5	1·0	Calcutta	24-Pergunnahs	
														Howrah	
														Hooghly	
59	5·6	Nil	Nil	0·39	Nil	0·39	−0 39	43 89	48 13	−4·24	0·0	0·8	Burdwan	Burdwan	
66	4 0	0·46	0·15	0·23	0·15	0·23	−0·08	56·08	53·24	+2·84	1·0	0·6	Bankoora	Bankoora	
59	3·1	0·03	0·19	0·14	0·19	0·14	+0·05	52 65	52·74	−0 09	1·3	0 5	Ranegunge	Beerbhoom	
														West Burdwan	
78	7·4	0·15	0·12	0·16	0·12	0·16	−0·04	51·29	51·50	−0·21	1·3	0·5	Berhampore	Moorshedabad	
62	5·6	Nil	0·07	0·39	0·07	0·39	−0·32	51·68	50 57	+1·11	0·8	0·8	Krishnaghur	Nuddea	
84	6·0	Nil	0·04	0·52	0·04	0·52	−0·48	54 79	54 85	−0·06	0·2	1·0	Jessore	Jessore	
														Khoolna	
84	5·6	0·07	0 05	0·76	0·05	0·76	−0·71	100 40	115·27	−14·87	0 5	1·2	Chittagong	Chittagong	East Bengal.
			Nil	1 03	Nil	1 03	−1·02	65·61	83·51	−17·90	0·0	1 3	Demagiri	Chittagong Hill Tracts	
88	3·3	Nil	Nil	0 69	Nil	0·69	−0·69	78·41	78·75	−0·34	0·0	0·8	Barrisal	Backergunge	
80	0·3	Nil	0·15	1·27	0 15	1·27	−1·12	91·04	109 43	−18·39	0·5	1·5	Noakholly	Noakholly	
75	3 6	Nil	Nil	0·64	Nil	0 64	−0·64	61·22	57·56	+4·66	0·0	1·2	Furreedpore	Furreedpore	
84	6·4	0·01	0·03	0·50	0 03	0 50	−0·47	76·22	61·30	+14·92	0·3	0 9	Dacca	Dacca	
84	2·0	Nil	0·11	0·66	0·11	0·66	−0·55	56·73	70·99	−14·26	0·5	1·1	Commillah	Tipperah	
81	5·1	drops	0 02	0·47	0·02	0·47	−0·45	88·80	68·70	+20·10	0 2	0 9	Mymensingh	Mymensingh	
71	2·9	0·09	0·05	0 29	0·05	0·29	−0 24	65·07	58·20	+7·37	0·8	0·5	Bogra	Bogra	North Bengal.
75	4·1	0·08	0·16	0·33	0·16	0·33	−0·17	55·53	54·73	+0 80	2·0	0 7	Serajgunge	Pubna	
71	1·9	0·03	0·03	0·24	0·03	0·24	−0·21	54·39	54·83	−0·44	0·3	0 5	Rampore Beauleah	Rajshahye	
64	0·9	0·15	0·08	0·10	0·08	0·10	−0·02	39·87	54·91	−15·04	0 5	0·4	Maldah	Maldah	
69	2·4	Nil	0·02	0 13	0·02	0·13	−0·11	57·51	58·01	−0 50	0·2	0·4	Dinagepore	Dinagepore	
72	0·4	Nil	Nil	0·24	Nil	0 24	−0·24	85 87	74·50	+11·37	0·0	0·4	Rungpore	Rungpore	
73	1·9	Nil	Nil	0·14	Nil	0·14	−0·14	117·73	111·78	+5 95	0·0	0·5	Julpigoree	Julpigoree	
														Cooch Behar	
78	3·0	Nil	Nil	0·12	Nil	0·12	−0·12	133·46	122 16	+11 30	0·0	0·6	Darjeeling	Darjeeling Hill Tracts	
72	1·7	0·05	0·05	0·12	0 05	0·12	−0·07	75·05	59·30	+15·75	0·6	0·4	Purneah	Purneah	South Bengal.
			0·07	0·21	0·07	0·21	−0·14	48·92	44 14	+4·78	1 0	0 5	Mozufferpore	North Bhagulpore	
														Mozufferpore	
67	2·7	0·13	0·06	0·09	0·06	0·09	−0·03	52·17	45 21	+6 96	0·7	0·4	Durbhunga	Durbhunga	
78	3·6	0·21	0·15	0·21	0·15	0·21	−0·06	64·11	47·38	+16·73	1·0	0·4	Motihari	Chumparun	
63	2·0	0·11	0·17	0·09	0·17	0·09	+0·08	40·30	43·52	−3 22	1 3	0 5	Chupra	Sarun	
61	4·0	0·29											Dehree	Shahabad	
62	3·0	0·23	0·38	0·18	0·38	0·18	+0·20	40·47	40·66	−0·19	1·6	0·4	Buxar		
61	4·4	0·08											Arrah		
56	3·1	0·20	0·17	0 11	0·17	0·11	+0·06	37·26	42 15	−4·89	1·8	0·4	Gya	Gya	South Behar.
62	2·9	0·04	0·11	0·09	0·11	0·09	+0·02	43·61	41·82	+1·79	0·8	0·4	Bankipore	Patna	
59	2·9	Nil	0·06	0·11	0·06	0·11	−0 05	42·53	43·80	−1·27	0·6	0·4	Bhagulpore	South Bhagulpore	
														Monghyr	
55	2·0	0·16	0·26	0·17	0·26	0·17	+0·09	54·41	51·43	+2·98	1·5	0·5	Doomka	Sonthal Pergunnahs	
54	4·1	0·38	0 34	0·20	0·34	0·20	+0·15	43 37	51·25	−7·88	1·2	0·5	Hazaribagh	Hazaribagh	Chutia Nag'pur.
63	3·4	1·24	1·19	0·17	1·19	0 17	+1·02	45·53	50·02	−4·49	3·0	0·5	Ranchi	Lohardugga	
			0 45	0·23	0·45	0·23	+0·22	38 51	48·09	−9·28	2·0	0·6		Manbhoom	
64	4·9	0·13	0·10	0·27	0 10	0·27	−0·17	43·80	52 09	−8·83	1·0	0·6	Chyebassa	Singbhoom	

ton years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ecroting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 1st March.	Sunday, 2nd March.	Monday, 3rd March.	Tuesday, 4th March.	Wednesday, 5th March.	Thursday, 6th March.	Friday, 7th March.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	*Pooree* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	30·71	53·41
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	70·57	57·25
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	65·50	50·12
		False Point ...	.....	.....	.....	.....	.....	.....	0·24	1	0·24	0·24	0·24	77·00	64·93
		Gop ...											?		?
		Pipli ...											?		?
	Cuttack ..	*Jagatsingpore*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	74·49	47·95
		Banki ...	.....	.....	.....	.....	.....	0·03	.....	1	0·03	0·03	0·07	52·55	50·30
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	75·18	57·39
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	72·24	54·11
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	57·64	55·00
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·25	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·47	?
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	55·04	53·69
		Bhuddruck ...	.....	.....	.....	.....	.....	0·08	.....	1	0·08	0·08	0·19	58·04	53·21
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	46·06	52·15
		Balasore ...	.....	0·32	.....	.....	.....	.....	.....	1	0·32	0·32	0·10	47·13	50·49
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	30·74	55·08
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	54·79	54·65
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	55·27	62·80
		Sangor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	56·85	68·45
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	49·60	53·22
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·56	46·26	50·36
		Ghattal ...	.....	0·23	.....	.....	.....	.....	.....	1	0·23	0·23	0·10	43·53	53·35
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·84	?
		Garbetta ...	.....	1·88	.....	.....	.....	.....	.....	1	1·88	1·88	?	48·17	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	63·79	60·79
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·55	?
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·60	52·87	57·02
		Barrackpore...	.....	0·13	.....	.....	.....	.....	.....	1	0·13	0·13	0 61	52 26	51·74
		Dum-Dum ...	.....	0 09	.....	.....	.....	.....	.....	1	0·09	0·09	0·61	65·53	53·44
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	58·71	51·80
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	62·41	50·13
	Howrah ...	Howrah ...	.....	0·18	.....	.....	.....	.....	.....	1	0·18	0·18	0·59	60·82	53·59
		Mohesreka ... (*Ooloberiah.*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	55·04	53·58
	Hooghly ..	Serampore ...	.....	0·16	.....	.....	.....	.....	.....	1	0·16	0·16	0·22	55·79	51·59
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	57·53	49·75
		Jehanabad ...	.....	1·63	.....	.....	.....	.....	.....	1	1·63	1·63	0 21	43·24	56·53
	Burdwan ..	Culna ..	.....	.. ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	41·32	45·77
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	47·25	49·13
		Cutwa ...	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	0·39	43·11	49·34
		Raneegunge ..	.....	.....	.....	.....	.....	0·03	.....	1	0·03	0 03	0·25	55·93	50·44
		Mankur ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	?	53·80	?
	Bankoora ...	Bankoora ...	.....	0·08	.....	.....	.....	0·44	.....	2	0·47	0·47	0·44	51·33	52·80
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	57·49	53·06
		Maliara ...	.....	.....	.....	.....	0·03	.....	.....	1	0·03	0·03	0·nil		52·02
		Khatra ...	.....	0·10	.....	.....	.....	.....	.....	1	0·10	0·10	0·13	66·01	55·90
		Indas ...	.....	.....	.....	.....	.....	0·09	.....	1	0·09	0·09	?	45·23	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·40	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·44	?
		Gangajalghati	.....	.....	.....	.....	.....	0·11	.....	1	0·11	0·11	?	59 29	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·38	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·44	?
	Beerbhoom	Bh. Soory ...	.....	.....	.....	.....	0·19	0·16	.....	2	0·35	0·35	0·18	59·41	54·80
		Hetampore ...	.....	.....	.....	.....	0·31	.....	.....	1	0·31	0·31	0·06	47·33	55·33
		Rampore Haut	.....	.....	.....	.....	.....	0·07	.....	1	0·07	0·07	0·09	47·35	52·45
		Bolpore ...	.....	.....	.....	.....	.....	0·07	.....	1	0·07	0·07	?	55·11	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·19	?
	Nuddea .	Ranaghat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	50·10	46·30
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	43·95	47·37
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 38	49·66	52·46
		Meherpore ...	.....	.....	.....	.....	0·04	0·03	.....	2	0·07	0·07	0·56	55·23	49·07
		Kooshtea ..	.....	.....	.....	.....	0·10	0·05	.....	2	0·15	0·15	0·45	56·21	53·95
	Khoolna ..	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·78	54·54	50·37
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	55·45	53·12
		Khoolna ...	.....	.....	.....	.....	0 25	.....	.....	1	0·25	0·25	0·63	57·07	55·57
		Nabipur ...											?	?	?
		Rampal ...	.....	.....	.....	0·28	.....	.....	.....	1	0·28	0·28	?	?	?
	Jessore ...	Narail ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	52·01	47·50
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	53·90	55·96
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	50·74	55·55
		Magoorah ...	.....	.....	.....	.....	.....	0·04	.....	1	0·04	0·04	0·39	56·94	50·61
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	47·64	53·25
	Moorshedabad	Kandi ...	.....	.....	.....	.....	0·15	0·10	.....	2	0·25	0·25	0·10	55·63	52·07
		Berhampore ...	.....	.....	.....	.....	.....	0·15	.....	1	0·15	0·15	0 25	46·43	53·54
		Lalbagh ...	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·05	0·18	47·18	51·23
		Azimgunge ...											0·18		52·14
		Jungipore ...	.....	.....	.....	.....	0·14	.....	.....	1	0·14	0·14	0·18	55·15	49·97
		Lalgola ...	.....	.....	.....	.....	.....	0·04	.....	1	0·04	0·04	0·16	59·05	51·75
		Jiagunge ...	.....	.....	.....	.....	0·06	0·04	.....	2	0·10	0·10	?	45·39	?
		Akhergunj ...	.....	.....	.....	.....	0·06	.....	.....	1	0·06	0·06	?	45·13	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·84	123·59	137·14
		Chittagong ...	.....	.....	.....	.....	.....	.....	0·09	1	0·09	0·09	0·68	77·08	96·06
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·09	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·66	?
	Chittagong Hill Tracts.	Rangamati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	64·00	55·81
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	67·20	82·24
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	87·66	89·35
		Perosepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	72·54	71·75
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·88	73·21	69·63
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·90	80·09	83·78

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890 —contd.

eorological Division.	District.	Station.	Rainfall.							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 1st March.	Sunday, 2nd March.	Monday, 3rd March.	Tuesday, 4th March.	Wednesday, 5th March.	Thursday, 6th March.	Friday, 7th March.	Number of rainy days.	Rainfall of week.				
F BENGAL		*Gourseddi* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·31	?
ponsid.		*Bauphal* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	95·13	?
	Noakholly ...	Noakholly ..	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	1·11	102·58	109·93
		Fanny ...	0·29	.....	.....	.....	.....	.....	.....	1	0·29	0·29	1·42	79·45	109 33
		Harishpore ...	.....	.....	.....	.....	... .	.....	.....	Nil	Nil	Nil	?	83·32	?
		Ramganj ...	.....	.....	.....	.....	.....	.. ...	.....	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	62·98	57·50
		Furreedpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·54	65·60	58·21
		Goalundo ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	56·05	54·56
	Dacca ..	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	77·51	71·56
		Dacca ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	76·45	69·96
		Narainguge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	81·14	61·11
		Manickgunge	.....	.....	.....	.....	0·13	.....	.....	1	0·13	0·25	69·80	[61·40	
		Joydebpore ...	.....	.....	.....	.....	0·15	.....	.....	1	0·15	0·15	?	68·70	?
	Hill Tipperah. Tipperah ...	Agartola ...	.....	.....	.....	.....	0·31	.....	.....	1	0·31	0·31	0·60	64·69	63 18
		Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·94	62·97	77·09
		Chandpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	65·97	77·01
		Brahmunberia	... ..	.....	.....	.....	.....	0·12	.....	1	0·12	0·12	0·77	53·24	63·78
		Ramchandra-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·83	?
		Nasirnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·39	?
		Daudkandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·73	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62 44	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	69·48	?
	Mymensingh...	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	70·80	71·43
		Atia (*Tangail*)	.....	0·08	.....	.....	.....	.....	.....	1	0·08	0 08	0 57	62·77	57·16
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	57·93	75·41
		Jamalpore ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·45	86·01	65·68
		Netrokona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	136·47	73·05
		Subornakhali	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	150·28	?
		SheroporeTown	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	86·17	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·08	?
NORTH BENGAL.	Pubna ...	Pubna ...	.....	.....	.....	.....	0·16	0·07	.....	2	0·23	0·23	0·30	50·43	55·63
		Serajgunge ...	.....	0·02	.....	.....	.....	0·00	.....	2	0·02	0·02	0·30	60·59	54·25
	Bogra ...	Sheropore ...	.....	.....	.....	0·03	.....	.....	.....	1	0·03	0·03	0·33	62·70	58·65
		Nowkhilla ...	.....	.....	.....	.....	.....	.. ...	. ....	Nil	Nil	Nil	0·35	62·44	58·40
		Bogra ...	.....	.....	.....	.....	0·08	.....	.....	1	0·08	0·08	0·29	71·41	61·73
		Panchbibi ..	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·19	66·05	56·43
	Rajshahye ...	Seaulsah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	46·34	53·89
		Nattore ...	.....	.....	.....	.....	0·08	.....	.....	1	0·08	0·08	0·16	55·93	55 97
		Naogaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	57·87	52·19
		Lalpore ...	.....	.....	.....	0·03	.....	.....	.....	1	0·03	0·03	?	36·75	?
		Mande ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	0·15	.....	.....	1	0·15	0·15	0·14	50·74	52·38
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	28·98	57·42
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	.....	.....	.....	0·25	.....	.....	.....	1	0·25	0·25	?	52·03	?
	Dinagepore ...	Mohadebpore	.....	.....	.....	0·03	.....	.....	.....	1	0·03	0·03	0·03	53·71	57 11
		Churamon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	51·85	53·16
		Raigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	52·37	58·41
		Dinagepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	65·33	64·17
		Balcorghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	61·29	51·96
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·51	?
	Rungpore ...	Bhawanigunge (*Gyabanda*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	58·39	62·51
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	74·98	75·31
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	91·34	73·99
		Bagdogra (*Nilphamari*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	88·49	85·85
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·10	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 29	123·45	117·57
		Alipore Door	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	128·23	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	90·94	?
		Bhagatpore (*Nagrakatta*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	139·22	?
	Cooch Behar..	Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	96·83	96·93
		Cooch Behar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	125·89	118·65
		Mickilgunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	122·40	106·36
		Mataibhanga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	118·03	113·21
	Darjeeling Hill.	Buxa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	199·38	193·88
		Silliguri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	131·03	105·73
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	128·38	109·77
		Kalimpong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	92·15	94·76
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	170·23	
ORTH BEHAR	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	103·67	·70·96
		Arrareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	79·75	64·40
		Purneah ...	.....	.....	.....	0·03	.....	.....	.....	1	0 05	0·05	0·07	63·58	61·33
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Kalaganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..	.....	.....	.....	.....	0·10	.....	.....	1	0·10	0·10	0·11	60·95	50·23
		Soopool ...	.....	.....	.....	.....	0·10	.....	.....	1	0·10	0·10	0·12	67·36	48·99
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	88·16	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·07	42·65	43·09
		Durbhunga ...	.....	.....	.....	... ..	0·13	.....	.....	1	0·13	0·13	0·13	50·37	46·42
		Madhubani ...	.....	.....	.....	.....	0·05	.....	.....	1	0·05	0·05	0·37	63·61	49·56
		Bahera ...	.....	.....	.....	.....	0·13	.....	.....	1	0·13	0·13	?	70·09	?
		Rashera ...	.....	.....	.....	.....	0·05	.....	.....	1	0·05	0·05	?	65·89	?
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	0·04	.....	.....	1	0·04	0·04	0·36	55·49	43·78
		Mozufferpore	.....	.....	.....	.....	0·11	.....	.....	1	0·11	0 11	0·15	46·58	6
		Hajipore ...	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·11	46·69	46·68
		Para ...	.....	.....	.....	.....	0 20	.....	.....	1	0·20	0·20	?	57·89	?
		Mahna ...											?	—	?
		Sishar ...	.....	.....	.....	0·05	0·20	0·05	.....	3	0·30	0 30	?	?	?
		Puppri ...	.....	.....	.....	.....	0·30	0·04	.....	2	0·34	0·34	?	48·48	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. 1st Saturday, March.	2nd Sunday, March.	3rd Monday, March.	4th Tuesday, March.	Wednesday, 5th March.	Thursday, 6th March.	7th Friday, March.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1th May 1889.	Avera rainfa from 1 Ma date
North Behar —concluded.	Chumparan...	Motihari ...	.....	.....	.....	.....	0·19	.....	.....	1	0·19	0·19	0·23	75·53	
		Bettiah ...	.....	.....	.....	.....	0 12	.....	.....	1	0·12	0·12	0·21	52·89	
		Bagaha ...	.....	.....	.....	.....	0·11	.....	.....	1	0·11	0·11	?	70·44	
		Burhurwa ...	.....	.....	.....	.....	0·21	0·02	.....	2	0·23	0·23	?	51·95	
	Saran ...	Gopalgunge ...	.....	.....	.....	0·10	0·15	.....	.....	2	0·25	0·25	0·04	38·73	
		Sewan ..	.....	.....	.....	0·14	.....	.....	.....	1	0·14	0·14	0·08	44·43	
		Chuprah ...	.....	.....	.....	0·11	.....	.....	.....	1	0·11	0·11	0·16	40·85	
South Behar	Shahabad	Buxar ..	.....	.....	.....	0·02	0·28	.....	.....	2	0·30	0 30	0·09	47·74	
		Dehree ...	.....	.....	.....	.....	0·20	0 09	.....	2	0·29	0·29	0·34	42 95	
		Bhaboosh ...	.....	.....	.....	.....	0·40	.....	.....	1	0·40	0·40	0·32	38·56	
		Sasseram ...	.....	.....	.....	.....	0·76	0·09	.....	2	0·85	0·85	0·05	31·31	
		Arrah ...	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·10	43·80	
		Mohaniah ...	.....	.....	.....	0 23	.....	.....	.....	1	0·23	0·23	?		
	Gya ..	Aurungabad...	.....	.....	.....	.....	0·08	0·12	.....	2	0·20	0·20	0·08	35·02	
		Gya ...											0·10		
		Nowadah ...	.....	.....	.....	0·06	.....	.....	.....	1	0·06	0·06	0·13	30·05	
		Jehanabad ...	.....	.....	.....	.....	0·20	0·01	.....	2	0·21	0·21	0·12	33·08	
		Arwal ...	.....	.....	.....	.....	0·15	.....	.....	1	0·15	0·15	?	34·49	
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·69	
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·29	
		Rajauli ...	.....	.....	.....	.....	0·02	.....	.....	1	0·02	0·02	?	17·94	
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·99	
	Patna ...	Patna ...	.....	.....	.....	.....	0·04	.....	.....	1	0·04	0 04	0·08	51·56	
		Dinapore ..											0·05		
		Behar ...	.....	.....	.....	.....	.....	0·19	.....	1	0·19	0·19	0·10	41·29	
		Barrh ...	.....	.....	.....	.....	0·20	.....	.....	1	0·20	0·20	0·13	30·03	
		Bickram ...	.....	.....	.....	.....	0·20	.....	.....	1	0·20	0·20		41·48	
		Hilsa ...	.....	.....	.....	.....	0·38	.....	.....	1	0 38	0·38	?	35·04	
	Monghyr ...	Begoosrai ...	.....	.....	.....	.....	0·05	.....	.....	1	0·05	0·05	0·09	47·75	
		Monghyr .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	41·77	
		Jamui ...	.....	.....	.....	.....	0·16	.....	.....	1	0·16	0·16	0·13	39·58	
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·33	
	South Bhagulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	45 08	
		Banka ...	.....	.....	.....	.....	0 14	.....	.....	1	0·14	0·14	0·14	38·48	
		Kalgaug ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	0·07	.....	.....	1	0·07	0·07	0·14	59·97	
		Godda ...	.....	.....	.....	.....	0·30	.....	.....	1	0·30	0·30	0·13	49·34	
		Pakour ...	.....	.....	.....	.....	0·15	.....	.....	1	0·15	0·15	0·12	73·74	
		Nya Doomka	.....	.....	.....	.....	0·06	0·10	.....	2	0·16	0·16	0·12	56·03	
		Deorbur ...	.....	.....	.....	.....	0·24	0·13	.....	2	0·37	0·37	0·22	40·77	
		Jamtara ...	.....	.....	.....	.....	0 15	0·35	.....	2	0·51	0·51	0·27	45·72	
		Mohagama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·41	
		Nanihat ...	.....	.....	.....	.....	1·00	.....	.....	1	1·00	1·00	?	56·87	
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*). ...	.....	.....	.....	.....	0·11	0·06	.....	2	0·17	0·17	0·19	39·07	
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	49·10	
		Semtagurah ..	.....	.....	.....	.....	0·24	.....	.....	1	0·24	0·24	0·30	36·48	
		Mahudi Hills											0·17		
		Jhoomra Hills											0 16		
		Barhi ...	.....	.....	.....	.....	.....	0·60	.....	1	0·60	0·60	?	31·96	
		Chatra ...	.....	.....	.....	.....	0·25	0·45	.....	2	0·70	0·70	?	46·74	
		Karagdeha ...	.....	.....	.....	.....	0·25	0·34	.....	2	0 59	0·59	?	39·94	
		Kamghar ...							.....				?		
	Lohardugga...	Lohardugga ...	.....	0·18	.....	0·41	.....	0·55	.....	3	1·09	1·09	0·04	46·83	
		Ranchi ...	.....	0·30	.....	0·12	0·87	0·54	.....	4	1·83	1·84	0·36	55·44	
		Palamow ..	.....	.....	.....	.....	0·42	0·22	.....	2	0·64	0·62	0·11	54·80	
		Silli ...											?		
		Balumat ...	.....	.....	.....	0·02	0·01	.....	.....	2	0·03	0·03	?		
		Hossinabad ..	.....	.....	.....	.....	.....	0·20	.....	1	0·20	0·20	?	44·69	
		Garwah ...	.....	.....	.....	0·45	.....	.....	.....	1	0·45	0 45	?	29 22	
	Singbhoom	Chyebassa ...	.....	0·10	.....	.....	.....	.....	.....	1	0·10	0·10	0·27	48·86	
		Chakradhar-pore.	.....	0·15	.....	.....	.....	.....	.....	1	0·15	0·15	?	40·95	
		Ghatsilla ...											?		
		Baharagora...											?		
	Manbhoom ...	Purulia ...	.....	0·06	.....	0 02	.....	0·30	.....	3	0·38	0·38	0·28	42·90	
		Gobindpore ...	.....	.....	.....	.....	.....	0·53	.....	1	0·53	0·53	0·17	33·73	
		Raghunath-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·91	
		Barrabhoom	.....	.....	.....	0·16	.....	.....	.....	1	0·16	0·16	?	44·48	
		Jhalda ...											?		
		Chas ...	.....	.....	.....	.....	0·07	0·33	.....	2	0·40	0·40	?	58·90	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the rain are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 11th March* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 7TH OF MARCH 1890.

On March 1st, or the first day of the present week, the pressure changes over Bengal were of a decidedly variable nature, for a considerable rise had occurred over the whole of North Behar and part of North Bengal, while pressure was falling elsewhere; the fall, too, was by distinctly irregular amounts, showing that conditions were becoming a little disturbed. Over the southern half of the province on this day winds were southerly, at some of the northern stations they were northerly, while at some of the central stations decidedly irregular winds prevailed. The changes of temperature were also marked, a rapid fall taking place in all districts except Behar and Chutia Nagpur, where, on the other hand, there was a decided increase of temperature. These conditions were apparently sufficiently abnormal to produce a small series of nor'-westers, and several stations in South-West Bengal and the neighbouring districts reported rain on the morning of the 2nd. A rapid rise of pressure also took place on the 2nd, the increase averaging about six or seven-hundredths of an inch, and pressure became rather largely above the normal. On this day also an exceedingly rapid rise of temperature took place, the rise at several stations exceeding 7°. Wind directions became rather more westerly at the southern and more easterly at the northern stations, but the local storms practically ceased. On the 3rd there was a local fall of pressure over Orissa and part of South-West Bengal, but elsewhere pressure continued to rise moderately. On this day also a very rapid fall of temperature set in over the greater part of the province except in the extreme west, the fall in many cases ranging from 4° to 6°; the westerly element in the wind directions also rather strengthened, and though conditions on this day continued a little disturbed, there were practically no local storms. On the 4th the pressure changes were smaller than they had been for some days, though of a distinctly variable nature, and again rather large and variable temperature changes were reported. On the 4th there had also been a very decided change in the wind directions, and winds over the southern half of the province were blowing from almost opposite directions from those over the northern half of the province, damp southerly and south-westerly winds blowing at the southern and more or less northerly winds at the northern stations. This apparently at once set up disturbed conditions over the province and produced a series of local storms with rain, and on the morning of the 5th, rain was reported from almost all stations in Behar, while numerous local falls occurred in North Bengal, South-West Bengal, East Bengal, and Chutia Nagpur On the 5th there had been a rather rapid fall of pressure over the greater part of the province, accompanied by a complete change in the wind systems blowing over the province, and on this day north-westerly winds were generally reported. A few local storms, however, again occurred on the evening of the 5th, and rain was reported on the morning of the 6th at several stations in South-West Bengal, South Behar, and Chutia Nagpur. The northerly wind current had again been driven back by the morning of the 6th, when westerly and south-westerly winds generally prevailed, but the pressure changes on this day were small, though there had been an extremely rapid fall of temperature, the fall ranging up to nearly 9° at some stations. On the 7th, pressure continued to fall moderately to rapidly, but temperature, on the other hand, began to increase. Winds were also generally more or less westerly over the whole province. During the last two days, however, conditions were more settled than they had been, and practically no local storms occurred. It will therefore be seen that the meteorological changes during the week have been of a rather large and rapid description, particularly in the matter of temperature. The conditions during the week have also been rather more important than for some weeks past, from the fact that light rain has been fairly general over the whole province, and in South Behar and Chutia Nagpur in particular considerable amounts of rain have been received.

Pressure.—The mean pressure has been above the normal in all districts, the excess usually ranging from about four to seven-hundredths of an inch. This excess pressure has been also fairly equally distributed over the whole province.

Temperature.—The changes of temperature during the week have been very rapid, but the mean average temperature has been slightly below the normal, the defect for the whole province equalling about 0·7°. The largest defects have been registered in North Behar and Chutia Nagpur, where they equal from one to two degrees The highest maximum temperature registered during the week was 96·4° at Cuttack on the 2nd and 6th instants.

The actual temperatures during the week, the range from day to night, and their variation from their normal values, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province

are given, together with their normal values. It will be seen that the day temperatures have been very distinctly in defect, while the night or minimum temperatures have been almost normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 7th March 1890.

	Normal mean maximum temperature for the week ending 7th March.	Actual mean maximum temperature for the week ending 7th March 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 7th March.	Actual mean minimum temperature for the week ending 7th March 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 7th March.	Actual mean daily temperature for the week ending 7th March 1890.	Variation of actual mean from the normal.
Cuttack	96·6	93·8	—2·8	70·3	70·3	0	83·4	82·1	—1·3
Calcutta	89·0	86·1	—2·9	66·8	66·6	—0·2	77·9	76·4	—1·5
Dacca	88·4	87·0	—1·4	65·3	64·3	—1·0	76·8	75·7	—1·1
Burdwan	90·8	89·6	—1·2	64·2	64·9	+0·7	77·5	77·2	—0·3
Patna	85·9	83·3	—2·6	59·1	60·6	+1·5	72·5	72·0	—0·5
Gya	89·8	85·8	—4·0	62·4	62·9	+0·5	76·1	74·3	—1·8
Purneah	86·6	84·1	—2·5	57·5	55·2	—2·3	72·0	69·6	—2·4
Hazaribagh	85·0	82·5	—2·5	60·0	59·8	—0·2	72·5	71·1	—1·4
Darjeeling	55·0	53·5	—1·4	42·3	38·6	—3·7	49·1	46·1	—3·0

Rainfall—Has occurred in every district of the province; the falls have been very small in Orissa, East Bengal, and South Bengal, where they only average a few hundredths of an inch. They have been rather larger in South-West Bengal and North Behar, where they average a tenth of an inch. In South Behar the falls have been decidedly more general and heavier than in the other districts mentioned, and they average a fifth of an inch, the falls being generally largest in the Shahabad district. The largest falls have occurred in Chutia Nagpur, which has received an average amount of 0·57 inch, and in this division the falls have been heaviest in the Lohardugga and Manbhoom districts.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 7th of March 1890:—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	96·4	61·6	87·9	69·7	78·8	—0·6	0·05	0·19	—0·14	0·3	0·6	—0·3	0·05	0·19	62·20	54·56
South-West Bengal ...	94·3	54·8	83·2	65·7	76·9	—0·4	0·10	0·36	—0·26	0·6	0·7	—0·1	0·10	0·36	52·91	53·36
East Bengal	91·1	51·5	85·6	64·7	75·2	+0·3	0·04	0·08	—0·04	0·2	1·0	—0·8	0·04	0·08	70·84	75·99
North Bengal	90·1	45·0	85·7	57·8	71·8	—0·5	0·03	0·20	—0·17	0·4	0·5	—0·1	0·03	0·20	73·57	71·20
North Behar	87·2	49·0*	82·3*	55·3*	68·8*	—2·0*	0·10	0·14	—0·04	0·9	0·5	+0·4	0·10	0·14	58·00	49·36
South Behar	91·4	55·8	85·2	61·2	73·2	—0·2	0·20	0·14	+0·06	1·3	0·4	+0·9	0·20	0·14	44·38	44·44
Chutia Nagpur	87·2*	57·0*	82·1*	59·4*	70·8*	—1·4*	0·57	0·20	+0·37	1·8	0·5	+1·3	0·57	0·20	43·65	50·44

* Dumbhanga and Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 11th March 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
March	2nd	137·8	0·7	29·956	75·9	83·6	15·3	68·3	68·6	0·602	64·2	68	NNW and variable	121	0·03	Chiefly cloudy, o, d.
,,	3rd	140·5	9·1	·961	75·8	87·5	23·7	63·8	69·4	·634	65·7	73	SSW and SW by W	65	Nil	Partially cloudy, ⌓, ≡.
,,	4th	144·0	5·8	·963	78·3	88·7	19·8	68·9	70·8	·656	66·7	70	SW by W, SW and SSW.	99	,,	Chiefly cloudy, ⌓, ≡.
,,	5th	141·5	5·0	·961	76·8	84·5	14·3	70·2	67·8	·561	62·2	62	W by S and variable	101	,,	Chiefly cloudy.
,,	6th	142·4	9·4	·939	76·6	85·5	18·9	66·6	66·9	·531	60·6	60	NNW and WNW ...	95	,,	Partially cloudy.
,,	7th	143·5	6·5	·902	75·9	85·9	20·3	65·6	65·5	·496	58·7	59	WSW and WNW ..	59	,,	Chiefly cloudy, ⌓, ≡.
,,	8th	146·5	7·9	·893	75·9	88·6	25·3	63·3	68·0	·602	64·2	68	SSW and SW ...	123	,,	Partially cloudy ⌓.

	Inches.
The mean pressure of the seven days	29·939
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·845
	Hours
The total number of hours of bright sunshine	44·4
The maximum possible number of hours of sunshine	82·2
	°
The mean temperature of the seven days	76·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office	77·9
The extreme variation of temperature	25·4
The maximum temperature	88·7
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	66
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	68
	Inches.
The total fall of rain from 2nd to 8th March 1890	0·03
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·69
The total fall from 1st January to 8th March 1890	0·80
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·18

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain gauge is one foot above the ground.

o overcast, d drizzling rain, ⌓ dew, ≡ fog.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 10th March 1890.

MEMORANDUM.

THE chief incidents in connection with the vital statistics of the principal Municipalities in Bengal for the week ending 22nd February 1890, are the following:—

1. The ratio of births during the period above mentioned stood at 20·6, and that of deaths at 22·2 per 1,000 of population, the record of the preceding week ending 15th February presenting 21·7 and 24·1 per 1,000, respectively, indicating a diminution in the registration of both the events.

2. The highest proportions of births and deaths were returned from the following Municipalities:—

Births.	Ratio per *mille.*	*Deaths.*	Ratio per *mille.*
Rampore Boaulcah	47·3	Poori	119·6
Durbhanga	38·5	Comillah	53·9
Serampore	35·3	Jessore	42·8
Comillah	34·7	Gya	40·3
		Serampore	35·3

3. In comparison with the results of the preceding week, there were no marked differences in the casualty-rates from any of the diseases specified in the table appended to this memorandum—*vide* figures given below:—

	Ratio per *mille* during the weeks ending—	
	22nd February 1890.	15th February 1890.
Cholera	2·6	3·1
Small-pox	1·1	·8
Fever	9·1	9·1
Bowel-complaints	2·9	3·4
Injury	·2	·5
Other causes	6·3	7·2

4. Of the death-causes named above, cholera, fever, bowel-complaints and the maladies coming under the head of "Other causes" proved conspicuously fatal in the following Municipalities, and small-pox continued to rage with virulence only in the Poori town, yielding a death-rate of as much as 35·6 per 1,000 of population:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Poori ...	25·2	Jessore ...	42·8	Serampore ..	13·7	Poori ...	29·4
Comillah ...	19·3	Comillah ...	23·1	Poori ...	12·6	Serampore ...	15·7
Narainganj ...	16·6					Bhagulpore ...	14·5
Gya ...	7·5					Gya ...	11·6
Monghyr ...	3·6						
Howrah ...	3·4						
Durbhanga ...	3·1						

5. The death-rates under the heads of *Sex*, *Class* and *Age* stood as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·6	Christians	14·9	Under 1 year ...	129·1
Females	19·7	Hindus	23·3	1 and under 5 years ...	24·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	125	Mahomedans ...	19·8	5 „ 10 „ ...	9·9
				10 „ 15 „ ...	8·6
				15 „ 20 „ ...	12·8
				20 „ 30 „ ...	15·0
				30 „ 40 „ ...	16·9
				40 „ 50 „ ...	18·3
				50 „ 60 „ ...	26·2
				60 years and upwards ...	71·2

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 10th March 1890.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
DISTRICTS.	NAMES OF MUNICIPALITIES.				NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	2	9	11	3·1	13·7	16·8	22	...	...	9	4	...	6	19	...	...	13·7	6·1	...	9·2	29·0	35·1	13	6	37·4	19·5	192
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	5	11	9·3	7·7	17·0	120	...	...	3	3	...	4	10	...	...	4·6	4·6	...	6·2	15·5	23·2	6	4	18·4	12·5	147
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	4	14	16·4	6·6	23·0	250	...	...	9	3	...	2	14	...	...	14·8	4·9	...	3·3	23·0	27·9	11	3	36·1	9·9	364
Serampore ...	Serampore ...	13,559	12,937	26,496	7	11	18	13·7	21·6	35·3	63	...	...	3	7	...	8	18	...	...	5·9	13·7	...	15·7	35·3	37·3	8	10	30·7	40·2	76
	Utterpara	3,046	2,464	5,510	2	...	2	15·9	...	15·9	No female birth	...	...	...	...	...	1	1	...	...	...	...	...	9·4	9·4	37·7	1	...	17·1	..	No female death.
Howrah ...	Howrah	53,153	37,660	90,813	19	22	41	10·9	12·6	23·5	86	6	2	12	12	...	6	38	3·4	1·1	6·9	6·9	...	3·4	21·8	20·8	23	15	22·5	20·7	108
	Bali	7,836	6,979	14,815	2	3	5	7·0	10·5	17·5	66	...	...	2	...	...	1	3	...	...	7·0	...	...	3·5	10·5	21·1	2	1	13·3	7·5	177
Nuddea ...	Kishnaghur ...	13,263	14,214	27,477	7	6	13	13·2	11·4	24·6	116	...	1	7	...	1	1	10	...	1·9	13·2	...	1·9	1·9	18·9	30·3	4	6	15·7	23·0	70
	Ranaghat	4,928	4,655	8,583	1	1	2	6·0	6·0	12·0	100	...	...	1	...	...	1	2	...	...	6·0	...	...	6·0	12·0	6·0	1	1	12·9	11·2	115
	Santipore	13,708	13,979	29,687	1	3	4	1·7	5·3	7·0	33	...	...	4	...	...	...	4	...	...	7·0	...	...	...	7·0	8·8	3	1	11·4	3·3	345
Jessore ...	Jessore	4,830	3,665	8,495	...	1	1	...	6·1	6·1	No male birth	...	...	7	...	...	...	7	...	...	42·8	...	...	...	42·8	42·8	4	3	43·1	42·6	101
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	14	4	18	36·8	10·5	47·3	350	...	...	7	...	...	2	9	...	...	18·4	...	...	5·2	23·6	31·5	4	5	19·3	28·8	67
Darjiling ...	Darjiling	4,579	2,439	7,018	2	2	4	14·8	14·8	29·6	100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44·5	...	...	...	...	.....
Dacca ...	Dacca	42,782	37,379	80,161	16	11	27	10·4	7·1	17·5	145	3	...	12	3	1	13	32	1·9	...	7·8	1·9	·6	8·4	20·7	11·7	18	14	21·9	19·5	112
	Naraingunj ...	7,605	4,956	12,561	4	3	7	16·6	12·4	29·0	133	4	...	...	...	...	1	5	16·6	...	...	...	...	4·1	20·7	58·0	3	2	29·5	21·0	97
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	2	3	2·3	4·7	7·0	50	...	...	2	...	...	...	2	...	...	4·7	...	...	...	4·7	21·1	2	...	7·8	...	No female death.
Tipperah ...	Comillah	8,153	5,353	13,506	4	5	9	15·4	19·3	34·7	80	5	...	6	...	...	3	14	19·3	...	25·1	...	...	11·5	53·9	19·3	7	7	44·6	63·0	65
Patna	Patna City ...	78,762	81,475	160,237	15	8	23	4·9	2·5	7·5	187	3	2	11	6	...	10	32	1·0	·6	3·6	1·9	...	3·2	10·4	16·9	21	11	13·9	7·0	198
Gya	Gya	38,290	37,831	76,121	16	15	31	10·9	10·2	21·2	106	11	...	28	2	1	17	59	7·5	...	19·1	1·4	·7	11·6	40·3	41·7	33	23	44·8	35·7	125
Shahabad ...	Arrah	20,960	22,505	43,465	9	10	19	16·8	11·9	23·7	90	...	...	3	1	1	1	6	...	...	3·6	1·2	1·2	1·2	7·2	14·4	4	2	9·9	4·6	215
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	13	8	21	15·3	9·7	25·5	162	1	...	2	2	1	3	9	1·2	...	2·4	2·4	1·2	3·6	10·9	9·7	3	6	6·8	15·9	42
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	24	25	49	18·2	19·6	38·5	96	4	1	18	1	...	9	33	3·1	·8	14·2	·8	...	7·1	26·0	18·1	17	16	26·2	25·7	102
Sarun	Chupra	25,116	26,454	51,570	14	9	23	14·1	9·0	23·1	155	...	...	5	2	...	5	12	...	...	5·0	2·0	...	5·0	12·1	5·0	7	5	14·5	9·8	182
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	13	11	24	11·8	9·9	21·7	118	...	...	13	3	...	16	32	...	...	11·8	2·7	...	14·5	29·0	19·9	21	11	36·8	20·6	178
Monghyr ..	Monghyr	28,154	29,366	57,520	13	15	28	11·8	13·5	25·3	86	4	...	8	2	...	5	19	3·6	...	7·2	1·8	...	4·5	17·2	28·9	10	9	18·5	15·9	116
Purneah ..	Purneah	8,463	6,553	15,016	3	3	6	10·4	10·4	20·8	100	...	...	5	2	...	...	7	...	...	17·3	6·9	...	...	24·2	27·7	2	5	12·3	39·7	31
Poori	Poori	13,247	11,537	24,784	4	3	7	8·4	6·3	14·7	133	12	17	8	6	...	14	57	25·2	35·6	16·8	12·6	....	20·4	119·6	117·5	33	24	129·5	108·2	119
	Total ...	550,986	510,588	1,061,574	222	190	421	10·9	9·7	20·6	111	53	23	155	59	5	129	424													

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	12	7	...	...	...	26·3	35·5	...	...	1	...	2	..	...	3	4	4	4	1	73·8	...	44·6	...	...	19·7	30·2	47·1	84·7	38·1
Midnapore ..	Midnapore ..	...	8	2	...	...	...	10·0	14·4	...	.	...	1	...	1	...	1	3	1	1	2	...	22·1	...	17·1	...	7·1	28·1	14·0	25·2	86·8
Hooghly ..	Hooghly and Chinsurah	...	12	2	...	...	...	24·7	16·9	...	...	2	1	1	.	1	1	1	1	1	5	129·5	23·4	18·0	...	20·7	8·4	9·1	12·5	20·0	125·4
Serampore ..	Serampore ..	...	18	...	...	...	...	37·1	..	...	...	4	...	1	...	...	1	3	1	4	4	293·0	...	20·7	...	...	9·7	31·4	15·4	108·6	149·5
	Utterpara .. .	...	1	...	...	...	..	9·8	...	...	..	1	..	..	..	...	...	...	...	..	...	333·0	...	..	...	...	...	...	...	..	...
Howrah ..	Howrah	2	26	10	...	...	54·9	19·8	25·3	...	..	1	7	3	4	4	9	3	2	3	2	25·2	65·7	24·8	31·6	23·4	20·6	8·1	8·8	23·4	27·7
	Bali	...	3	...	...	...	...	11·6	..	...	...	...	1	1	...	...	...	1	...	...	..	...	52·1	46·8	...	...	...	18·6	...	...	...
Nuddea ...	Kushtiaghur ...	...	6	4	...	...	...	16·7	25·1	...	...	1	1	...	...	...	1	1	1	1	4	104·8	21·1	..	...	...	10·8	12·1	13·9	24·7	120·4
	Ranaghat	...	2	...	...	...	...	14·2	...	...	.	...	...	1	...	...	...	...	1	...	...	...	...	46·6	...	...	...	...	51·8	...	...
	Santipore	...	3	1	...	...	...	7·5	5·8	...	...	1	...	...	...	1	.	...	1	1	...	61·5	...	...	...	23·4	...	...	14·8	22·6	...
Jessore ...	Jessore	...	4	3	...	...	...	46·1	40·8	...	...	..	2	...	1	...	1	...	1	2	...	..	210·5	...	78·2	...	25·8	...	49·5	184·7	...
Rajshahye ...	Rampore Beauleah	...	2	7	...	...	...	10·5	37·1	...	...	2	1	...	...	...	1	2	2	1	...	256·2	36·7	...	...	...	12·5	28·9	42·4	41·9	...
Darjiling ...	Darjiling	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	Dacca	...	13	14	...	...	...	23·2	18·5	...	...	4	1	1	1	3	7	2	1	1	11	109·6	7·1	5·2	6·5	21·4	23·8	8·9	6·2	11·0	102·6
	Narainganj ...	...	4	1	...	...	...	32·9	8·4	...	...	...	1	...	1	...	...	3	...	...	...	...	45·6	...	45·8	...	...	72·9	...	...	...
Chittagong	Chittagong ..	...	...	2	...	...	...	...	6·8	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	11·2	15·6	...	...	...
Tipperah ...	Comillah	...	4	10	...	...	...	35·0	70·4	...	...	3	...	1	1	2	1	3	1	...	2	525·3	...	31·9	35·6	82·7	18·8	78·2	39·6	...	153·4
Patna	Patna City ..	...	23	9	...	...	...	10·1	11·4	...	...	3	...	2	...	1	9	2	5	...	5	96·5	...	6·2	...	4·7	16·2	4·3	13·8	...	18·8
Gya ...	Gya	...	53	7	...	...	...	45·1	22·6	..	...	5	7	1	...	1	6	5	11	7	16	145·3	57·3	7·4	...	9·9	21·2	20·4	58·5	55·4	161·6
Shahabad ...	Arrah	...	5	1	...	...	...	8·4	4·3	...	...	1	...	1	1	...	1	...	...	...	2	40·4	...	10·1	11·8	...	6·6	...	...	...	36·1
Mozufferpore ..	Mozufferpore ...	...	7	2	...	...	...	12·1	8·3	...	...	4	...	...	1	...	1	1	1	...	1	217·8	..	...	13·1	...	6·1	7·5	10·4	...	21·4
Durbhanga ...	Durbhanga ...	...	23	11	...	...	...	23·6	32·6	...	...	5	5	...	1	...	4	1	...	2	15	167·0	34·2	...	9·4	...	15·6	4·7	...	23·7	244·2
Sarun	Chupra	...	9	3	...	...	...	11·6	13·1	...	...	1	...	3	...	...	...	1	1	3	3	36·9	...	26·2	...	...	...	6·7	8·6	37·7	45·9
Bhagulpore ...	Bhagulpore ...	...	24	8	...	...	...	31·4	24·1	...	...	5	1	...	3	...	4	3	3	2	6	217·6	9·6	...	24·8	...	19·0	44·9	24·8	24·4	86·6
Monghyr ...	Monghyr	...	16	3	...	...	...	18·6	12·4	...	...	4	2	...	...	1	5	3	...	...	4	140·1	16·7	...	...	13·8	25·1	17·5	...	...	58·0
Purneah ...	Purneah	...	3	4	...	...	...	17·0	36·7	...	...	2	...	...	...	1	...	1	2	1	...	367·5	...	...	...	88·3	...	18·2	56·1	55·5	...
Poori ...	Poori	...	56	1	...	...	...	118·7	247·6	...	...	8	12	3	1	5	4	8	4	5	7	1372·9	347·2	69·6	27·7	139·9	39·4	102·6	63·6	116·5	301·6
	TOTAL ...	2	340	112	...	...	14·9	23·3	19·8	...	...	63	43	21	16	20	61	57	44	39	90	129·1	24·1	9·9	8·6	13·8	15·0	16·9	18·3	26·2	71·2

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of December 1889.

CIRCLE	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1889-90.		Rainfall, 1888-89.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.						During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.	Grand Total.					
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st reach	1,342	.....	.....	10,483	9,832	.....	10,483	.....	384	12	.....	.....	396	10,879	0·13	72·22	.....	69·48	
		Ditto, 2nd „	566	55													.....	65·45	... ..	48·52	
		Machgong	776	.....	.....	27,748	27,021	.....	27,748	.....	222	14	.....	.....	236	27,984	0·25	75·56	.....	44·83	
		Kendrapara	1,067	202·88	3·63	48,090	47,815	.....	51,379	42	3,983	36	.....	.....	4,061	55,440	0·31	63·38	.....	37·02	
		Gobri	372·82	17·56	8·41	1,876	1,717	.....	2,321	.....	215	3	.....	... ...	218	2,539	0·26	71·19	... ..	46·55	
		Do. extension	648	29 35	4·24	1,840	2,345	.....	2,024	.....	7	.....	.....	.....	7	2,031	No gauge fixed.				
		Patamoondi	885	42·90	9·55	7,616	9,203	.....	10,335	80	543	.....	.....	.....	623	10,958	.....	... ...	.....	.....	
		High Level, Range I	608	94	.....	14,343	18,448	.....	18,399	.....	480	3	.....	.....	483	18,882	.....	72·68	.....	36·45	
		Ditto, ditto II	727·16	223·12	.....	2,370	2,444	.....	2,381	.....	61	.....	.....	... ..	61	2,442	.....	.....	.....	..	
		Ditto, ditto III	727·16	. ....	.....	35,749	24,898	... ..	34,399	... ..	.....	88	.....	.....	88	34,487	.....	49·98	.....	51 13	
	Balasore	Total	.....	.....	.....	154,115	139,723	.... .	159,469	122	5,895	156	.....	.....	6,173	165,642	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	135,013	124	2,773	171	.....	.....	3,068	138,080	.....	.....	.....	...	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	58	.....	61,732	49,769	.....	60,958	.....	11	.....	.....	.....	11	60,969	.....	46·91	.....	61·58	30 days discharging.
	Howrah	Panchkoorah	523	11	.....	3,493	4,619	.....	4,388	.....	437	.....	.....	.....	437	4,825	.....	51·21	.....	55·32	5 days discharging.
		Tidal reaches, Ranges I-II	... .	.....	.....	357	389	.....	318	... ..	.....	.....	.....	.....	.....	318	.....	.....	... ..	...	
		Total	.....	.....	.....	65,582	54,777	... ..	65,664	.....	448	.....	.....	.....	448	66,112	.....	.....	.. .	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	57,072	44	1,164	.....	.....	.....	1,208	58,280	.....	.....	.....	...	
SONE	Shahabad	Western Main	4,342	1,483	54	20,188	26,010	15,194*	.....	2,904	2,571	160	38	284	5,957	21,151	...	47·36	.....	39·73	* Less than last month, owing to leases cancelled during month.
		Buxar	1,226	249	147	77,906	83,549	51,241	.....	19,665	1,833	2,041	859	3,340	27,778	79,019	.....	41·30	.....	37·07	
		Arrah	2,090	980	787	132,915	156,124	94,189	.....	19,896	6,039	2,220	211	8,373	36,739	130,923	.....	45·97	.....	41·83	
	Patna and Gya.	Eastern main	1,466	425	576	1,461	1,466	1,091	.....	702	18	13	2	.....	735	1,826	.....				
		Patna				60,085	62,335	39,397	.....	19,463	2,354	300	287	.....	22,409	61,806					
		Total	.....	... .	.....	299,555	329,711	201,112	.....	62,635	12,815	4,734	1,397	12,037	93,618	294,730	.....	.....	.....	.. .	
		Total of the corresponding period of last year	.....	.....	.....	.....	.. ..	194,611	.....	67,283	43,961	3,157	331	9,054	123,786	318,397	.....	.....	.....	.... .	
		Grand Total	.....	.....	.	519,252	524,211	201,112	225,133	62,757	19,158	4,890	1,397	12,037	100,239	586,484	.....	.....	.. ...	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	194,611	192,084	67,451	47,898	3,328	331	9,054	128,062	514,757	.....	... ..	.....	.....	

CALCUTTA,
The 10*th March* 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 8th March 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 8th March 1890.			Week ending Saturday, the 9th March 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds	Rs.	No.	Mds.	Rs.
Rice and paddy	1,586	3,30,809	5,550	888	2,20,550	4,020
Jute	1'0	80,150	1,400	78	57,200	1,005
Firewood	123	71,685	982	130	51,785	720
Other articles	1,084	2,79,496	4 337	1,106	2,88,540	4,527
Total ...	2,893	7,62,131	12,269	2,202	6,27,075	10,272

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 1,525½ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-Miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P	Rs. A. P.			
Total traffic for the week ...	258,221*	2,93,928 1 0*	20,06,204 10	6,84,961 1 0	21,189 14 0	10,00,079 0 0	66,247	98,634½	164,881½
Or per mile of railway ..	.....	192 10 10	.....	449 0 1	13 14 3	655 9 2	.....	.....	....
For previous 8 weeks of half-year	2,006,611	22,06,365 13 0	1,98,27,130 10	45,64,903 12 0	1,84,924 11 0	70,15,594 4 0	514,723	690,145½	1,204,867½
Total for 9 weeks ..	2,264,832	25,00,293 14 0	2,27,33,424 20	52,49,864 13 0	1,75,514 9 0	80,15,673 4 0	580,969	788,780	1,369,749
Comparison.									
Total for corresponding week of previous year ..	306,464	3,58,988 5 9	28,36,161 10	6,30,229 2 0	16,910 2 11	10,06,127 10 8	67,549	97,762	165,311
Per mile of railway corresponding week of previous year ..	.....	235 5 3	.....	413 2 1	11 1 4	659 8 8	.....	.....	.....
Total to corresponding date of previous year	2,293,442½	26,88,676 2 1	2,48,40,117 0	54,16,163 4 0	1,36,306 4 2	82,43,165 10 3	582,902	863,526	1,446,428

* The decrease in coaching traffic is due to earnings for the corresponding period of 1889 having included receipts on account of "Sheba Ratti mela."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd March 1890			Receipts for week ending 1st March 1890			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	10,06,128	660	1,525½	10,00,079	656	1,525½	4,07,82,891	557	1,525½	4,05,32,150	554	.....	2,50,735

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 1st March 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,345	6,301 13 0	36,735 0	2,564 15 0	43 11 0	8,970 7 0	1,806	650	2,456
Or per mile of railway ...	216	111 3 6	642 10	44 13 6	0 13 5	156 13 3	.....	.....	.....
For previous 8 weeks of half-year	96,768	52,779 0 0	2,78,744 0	18,539 9 0	382 9 0	71,701 11 0	13,599	5,302	18,901
Total for 9 weeks ...	109,113	59,141 6 0	3,15,479 0	21,104 8 0	426 4 0	80,672 2 0	15,405	5,953	21,357
Comparison.									
Total for corresponding week of previous year ...	10,491	9,407 2 0	24,795 30	1,592 1 0	38 5 9	11,147 8 9	1,965	429	2,394
Per mile of railway corresponding week of previous year .	288½	166 0 6	433 20	27 13 4	1 0 4	194 14 2	... ..	... .	.....
Total to corresponding date of previous year	115,767	62,714 1 8	3,86,815 20	15,732 2 0	334 14 9	78,781 2 5	16,788	4,762	21,550

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd March 1889.			Receipts for week ending 1st March 1890.			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1890	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,148	195	57½	8,970	157	57½	4,47,540	103	57½	4,62,764	160	15,224	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week .	20,030	5,130 12 0	16,084 30	587 12 0	7 0 0	5,734 8 0	874	222	1,096
Or per mile of railway	... ..	241 0 0	.....	26 6 8	0 5 0	257 11 8	... .	.....	.....
For previous 8 weeks of half-year	162,626	40,212 15 0	1,03,248 0	3,574 2 0	55 1 0	43,842 2 0	6,997	565	7,562
Total for 9 weeks ...	182,656	45,352 11 0	1,19,332 30	4,161 14 0	62 1 0	49,576 10 0	7,871	787	8,658
Comparison.									
Total for corresponding week of previous year .	35,705½	10,140 13 0	11,150 20	406 15 0	6 3 0	10,553 14 0	1,162	70	1,232
Per mile of railway corresponding week of previous year ..	.....	455 12 3	.. ...	18 4 8	0 4 5	474 5 4	.....	.....	.....
Total to corresponding date of previous year	196,408	51,000 0 9	85,063 20	3,002 12 0	58 3 9	54,061 0 6	8,107	883	8,990

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd March 1889.			Receipts for week ending 1st March 1890.			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
22½	10,554	474	22½	5,735	258	22½	2,60,943	244	22½	2,53,250	237	.....	7,693

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 22nd February 1890, on 747 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	141,650	79,740 0 0	5,68,390 0	99,150 0 0	12,570 0 0	1,91,460 0 0	23,178	26,575	49,748
Or per mile of railway ...	190	107 0 0	761 0	133 0 0	*1 0 0	261 0 0	... ..	..	.....
For previous 7 weeks of half-year	1,060,160	5,34,570 9 0	41,46,980 0	8,70,110 0 0	1,19,660 0 0	15,24,340 0 0	151,411	221,940	373,351
Total for 8 weeks .	1,201,810	6,14,310 9 0	47,15,370 0	9,69,260 0 0	1,32,230 0 0	17,15,800 0 0	174,584	248 515	423,099
COMPARISON.									
Total for corresponding week of previous year	a154,634	1,11,859 0 0	5,24,033 0	80,933 0 0	17,529 0 0	2,10,320 0 0	23,460	23,622	46,082
Per mile of railway corresponding period of previous year ..	230	166 0 0	779 0	120 0 0	*1 0 0	287 0 0	.....	.... .	. ..
Total to corresponding date of previous year	1,141,890	6,26,307 0 0	38,55,220 0	7,46,482 0 0	1,28,571 0 0	15,01,360 0 0	170,620	205,554	376,174

* Excluding steamer earnings.
a Due to Mohotshob at Noboddip and development of fish traffic.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1889-90	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,10,220	312	747	1,91,460	256	673	97,43,740	308	627	*1,04,80,880	307	7,37,131	...

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 22nd February 1890, on 125 miles open.

	Coaching Traffic.*		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs A. P.	Rs. A. P	Rs. A. P.			
Total traffic for the week ...	26,360	9,880 0 0	61,080 0	3,560 0 0	80 0 0	13,120 0 0	3,736	1,950	5,686
Or per mile of railway	215	79 0 0	489 0	28 0 0	1 0 0	105 0 0	.. ...	.....	.....
For previous 7 weeks of half-year	180,290	70,570 0 0	2,12,660 0	18 370 0 0	520 0 0	89,460 0 0	24,550	12,724	37,274
Total for 8 weeks ...	213,150	80,450 0 0	2,73,940 0	22,130 0 0	600 0 0	1,03,180 0 0	28,286	14,674	42,960
COMPARISON.									
Total for corresponding week of previous year	28,614	12,150 0 0	62,705 0	2,970 0 0	35 0 0	15,155 0 0	3,763	1,937	5,700
Per mile of railway corresponding period of previous year ..	229	97 0 0	502 0	24 0 0	.. .	121 0 0	.....	....	.. ...
Total to corresponding date of previous year	215,080	77,213 0 0	3,99,807 0	19,247 0 0	3,859 0 0	1,00,319 0 0	28,330	14,949	43 339

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	15,155	121	125	13,520	108	125	6,46,474	110	125	*0,62,031	113	16,157	...

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd February 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,560	7,520 0 0	23,000 0	2,310 0 0	190 0 0	10,020 0 0	2,490	704	3,194
Or per mile of railway ..	103	87 0 0	274 0	27 0 0	2 0 0	116 0 0	.....	.....	..
For previous 7 weeks of half-year	100,080	41,120 0 0	2,09,650 0	21,050 0 0	1,390 0 0	63,560 0 0	16,298	5,704	22,002
Total for 8 weeks ...	126,490	48,640 0 0	2,33,250 0	23,360 0 0	1,580 0 0	73,580 0 0	18,778	6,408	25,186
Comparison.									
Total for corresponding period of previous year . .	15,570	5,345 0 0	11,086 0	872 0 0	120 0 0	6,343 0 0	2,490	879	3,369
Per mile of railway corresponding period of previous year . .	181	62 0 0	130 0	10 0 0	2 0 0	74 0 0	.....	.....	.....
Total to corresponding date of previous year	119,061	36,920 0 0	92,069 0	9,606 0 0	1,302 0 0	47,888 0 0	13,181	5,191	24,372

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 23rd February 1889.			Receipts for week ending 22nd February 1890.			Total receipts from 1st April 1888 to 23rd February 1889.			Total receipts from 1st April 1889 to 22nd February 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,343	74	86	10,020	116	86	2,71,302	67	86	*3,58,833	80	87,476	.....

* Audited up to week ending 31st December 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st March 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,502	1,248 0 0	13,244 0	725 0 0	53 0 0	2,076 0 0	509	254	763
Or per mile of railway	130	46 0 0	486 0	26 0 0	1 0 0	76 0 0	.....	.....	.....
For previous 7 weeks of half-year	24,080	8,898 0 0	1,02,612 0	6,537 0 0	380 0 0	15,815 0 0	3,854	3,064	7,518
Total for 8 weeks ...	28,200	10,146 0 0	1,15,886 0	7,332 0 0	413 0 0	17,891 0 0	4,363	4,218	8,581
Comparison.									
Total for corresponding week of previous year	4,003	1,631 0 0	10,334 0	575 0 0	29 0 0	2,235 0 0	509	472	981
Per mile of railway corresponding week of previous year ...	171	60 0 0	379 0	21 0 0	1 0 0	82 0 0	.....	.....	.....
Total to corresponding date of previous year	29,903	11,135 0 0	1,21,484 0	7,331 0 0	151 0 0	18,627 0 0	4,435	4,744	9,179

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 2nd March 1889.			Receipts for week ending 1st March 1890.			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,235	82	27¼	2,076	76	27¼	93,363	75	27¼	93,909	75	84	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 1st March 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	47,310	18,644 0 0	2,88,477 0	31,204 0 0	3,518 0 0	53,456 0 0	5,924	9,421	15,345
Or per mile of railway ...	173	68 0 0	1,057 0	115 0 0	13 0 0	196 0 0*	.....	.....	...
For previous 7 weeks of half-year	375,840	1,63,706 0 0	20,39,858 0	2,34,234 0 0	31,034 0 0	4,20,024 0 0	43,628	73,910	117,543
Total for 8 weeks ...	423,159	1,82,350 0 0	23,28,335 0	2,65,328 0 0	34,602 0 0	4,83,480 0 0	49,557	83,331	132,888
Comparison.									
Total for corresponding week of previous year	40,707	15,186 0 0	1,88,193 0	13,288 0 0	2,897 0 0	31,371 0 0	3,541	6,279	11,820
Per mile of railway corresponding week of previous year ..	149	55 0 0	806 0	49 0 0	1 0 0	105 0 0*	.....	.....	.....
Total to corresponding date of previous year	355,268	1,38,149 0 0	12,12,804 0	1,13,262 0 0	27,183 0 0	2,78,593 0 0	42,270	56,693	99,963

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 2nd March 1889.			Receipts for week ending 1st March 1890.			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	31,371	115	273	53,456	196	265·36	15,28,066	125	273	19,09,416	157	*4,41,350	.....

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WEDNESDAY, MARCH 19, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 173A.

GENERAL.—*The 10th March* 1890.—Babu Gati Krishna Neogy, Officiating Deputy Collector, is appointed to perform the functions of a Collector under section 4 of Act VII (B.C.) of 1880 in Bankura.

The 12th March 1890.—Mr. M. Finucane, Director of Land Records, Bengal, is appointed to act, until further orders, in the first grade of Magistrates and Collectors, with effect from the 4th instant.

Mr. W. Fiddian, Magistrate and Collector, Pubna, is appointed to act, until further orders, in the first grade of Magistrates and Collectors, with effect from the 4th instant, *vice* Mr. A A. Wace, on furlough.

Mr. J. G. Ritchie, Officiating Magistrate and Collector, Moorshedabad, is appointed to act, until further orders, in the second grade of Magistrates and Collectors, with effect from the 4th instant, *vice* Mr. W. Fiddian.

The 14th March 1890.—Lieutenant D. Easton, Dacca Volunteer Rifles, is allowed leave of absence for six months, with effect from the 25th February 1890.

Babu Hira Lal Sen, Sub-Deputy Collector, in charge of the Russa distillery, 24-Pergunnahs, was on leave for twelve days, under article 291 of the Civil Service Regulations, from the 16th to 27th December 1889, both days inclusive.

The services of Mr. W. H. Lee, Assistant Magistrate and Collector, Cuttack, are placed at the disposal of the Government of India in the Home Department.

The services of Mr. R. F. Rampini, District and Sessions Judge, Burdwan, are placed temporarily at the disposal of the Government of India in the Home Department.

Mr. B. L. Gupta, Officiating District and Sessions Judge, Furreedpore, is appointed to act as District and Sessions Judge of Cuttack, during the absence, on deputation, of Mr. J. B Worgan, or until further orders.

Mr. H. Cox, Joint-Magistrate and Deputy Collector, is appointed to act, until further orders, as District and Sessions Judge of Furreedpore.

Mr. F. H. Harding, Officiating District and Sessions Judge, Chittagong, is allowed furlough for eighteen months, under article 340 of the Civil Service Regulations, with effect from the 15th May 1890, or such subsequent date as he may avail himself of it.

Mr. R. H. Anderson, Officiating District and Sessions Judge, Moorshedabad, is appointed to act, until further orders, as District and Sessions Judge of Chittagong.

Mr. D. B. Allen, C.S., reported his departure from India on furlough on the 28th February 1890.

The 15th March 1890.—Moulvie Dilwar Hossein Ahmed, Deputy Magistrate and Deputy Collector, Gya, is allowed leave for one month, under article 370 of the Civil Service Regulations.

The services of Mr. H. W. Gordon, District and Sessions Judge, Sarun, are placed temporarily at the disposal of the Government of India in the Home Department.

Mr. R. C. Sterndale, substantive *pro tempore* Cantonment Magistrate, Dum-Dum, and Judge of the Small Cause Court in that Cantonment, is appointed to act temporarily, in addition to his own duties, as Cantonment Magistrate of Barrackpore and Judge of the Small Cause Court in that Cantonment, *vice* Colonel W. Hopkinson, on furlough.

The 17th March 1890.—The services of Mr. C. Cuthbertson, Under-Secretary to the Government of Bengal, in the Financial and Municipal Departments, are placed temporarily at the disposal of the Government of India in the Home Department.

Mr. M. E. Bradford, Assistant Magistrate and Collector, 24-Pergunnahs, is appointed to act as Under-Secretary to the Government of Bengal, in the Financial and Municipal Departments, during the absence, on deputation, of Mr. C. Cuthbertson, or until further orders.

Mr. H. F. Matthews, Officiating District and Sessions Judge, Jessore, is appointed to act as District and Sessions Judge of Burdwan, during the absence, on deputation, of Mr. R. F. Rampini, or until further orders.

Babu Taruk Chunder Ganguly, Temporary Sub-Deputy Collector, Chittagong, is transferred to Munshigunge, Dacca.

Mr. E. G. Colvin, C.S., is appointed to act, until further orders, as Private Secretary to the Lieutenant-Governor of Bengal, with effect from the 22nd instant, *vice* Mr. P. C Lyon, on deputation.

Mr. A. C. Tute, Magistrate and Collector, Cuttack, is allowed furlough for seven months, under article 340 of the Civil Service Regulations, with effect from the 1st April next, or such subsequent date as he may avail himself of it.

Mr. G. E. Manisty, Joint-Magistrate and Deputy Collector, Monghyr, is appointed to act as Magistrate and Collector, Cuttack, during the absence, on leave, of Mr. A. C. Tute, or until further orders.

The Hon'ble J. F. Norris is appointed to act as President to the Board of Examiners to conduct the examination of candidates for admission as pleaders and mooktears, during the absence, on leave, of the Hon'ble E. J. Trevelyan.

The 18th March 1890.—Mr. H. Holmwood, substantive *pro tempore* Joint-Magistrate and Deputy Collector, acted in the first grade of Joint-Magistrates and Deputy Collectors from the forenoon of the 10th February to the afternoon of the 15th instant, and was employed in the Sudder station of the district of the 24-Pergunnahs.

The services of Mr. H. W. C. Carnduff, Under-Secretary to the Government of Bengal, in the General, Revenue, and Statistical Departments, are placed temporarily at the disposal of the Hon'ble the Chief Justice.

Mr. H. S. Beadon, Magistrate and Collector, Durbhunga, is appointed to act as Magistrate and Collector of Shahabad, during the absence, on furlough, of Mr. A. W. B. Power, or until further orders.

Mr. F. R. S. Collier; Officiating Magistrate and Collector, Shahabad, is appointed to act as Magistrate and Collector of Durbhunga, during the absence, on deputation, of Mr. H. S. Beadon, or until further orders.

Babu Mohendro Nath Mookerjee, Deputy Magistrate and Deputy Collector, Howrah, is transferred to Manbhoom, and is appointed to have charge of the Govindpore sub-division of that district.

Mr. W. H. Mackenzie, Deputy Magistrate and Deputy Collector, Govindpore, Manbhoom, is transferred to Lohardugga, and is posted to the Sudder station of that district.

Mr. C. R. Marriott, Officiating Magistrate and Collector, Noakholly, is appointed to act as Magistrate and Collector of Midnapore, during the absence, on furlough, of Mr. C. H. Vowell, or until further orders.

Mr. L. P. Shirres, Officiating Joint-Magistrate and Deputy Collector, Lohardugga, is appointed to act as Magistrate and Collector of Noakholly, during the absence, on deputation, of Mr. R. M. Waller, or until further orders.

Babu Sree Nath Chatterjee, Special Deputy Collector on butwara work, Durbhunga, is allowed leave for three months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Babu Benode Behari Sircar, Sub-Deputy Collector, on leave, is appointed to act as Special Deputy Collector for employment on butwara work, in the district of Durbhunga, during the absence, on leave, of Babu Sree Nath Chatterjee, or until further orders.

POLICE.—*The 18th March* 1890.—Mr. J. Patch, District Superintendent of Police, Lohardugga, is allowed leave for two months and thirty days, under article 291 of the Civil Service Regulations, with effect from the 5th April 1890.

The 15th March 1890.—Mr. R. H. G. Irvine, District Superintendent of Police, on leave, is appointed to act as District Superintendent of Police, 24-Pergunnahs, during the absence, on leave, of Mr. H. W. J. Bamber, or until further orders.

The 18*th March* 1890.—The following substantive and acting promotions of Police Officers are sanctioned :—

With effect from 16th February 1890, consequent on the retirement of Mr. H. A. Coombs, first grade District Superintendent—

Mr. J. Masters, Officiating first grade District Superintendent, is confirmed in that grade.

Mr. W. J. Kilby, Officiating second grade District Superintendent, is confirmed in that grade.

Mr. R. F. H Pughe, Officiating third grade District Superintendent, is confirmed in that grade.

Mr. L. E. Fabre-Tonnerre, Officiating fourth grade District Superintendent, is confirmed in that grade.

Mr. G. A. Patten, first grade Assistant District Superintendent, is promoted to fifth grade of District Superintendents.

Mr. E. C. S. Baker, Officiating first grade Assistant Superintendent, is confirmed in that grade.

Mr. H B. St.Leger, Officiating second grade Assistant Superintendent, is confirmed in that grade.

Mr. H. C. L. Bamber, Officiating Assistant Superintendent, who has passed his examination completely, is promoted to the third grade of Assistant Superintendents and to act in the second grade.

With effect from the 16th February 1890—

Mr. W. H. Cornish, second grade District Superintendent, to Officiating first grade, *vice* Mr. J. Masters, promoted to first grade.

Mr. A. E. C. Bolst, third grade District Superintendent, to Officiating second grade, *vice* Mr. W. H. Cornish.

Mr. C. A. Fisher, fourth grade District Superintendent, to Officiating third grade, *vice* Mr. A. E. C. Bolst.

Mr. I. H. W. Dalrymple Clark, fifth grade District Superintendent on privilege leave, and Mr. R. F. Guise, fifth grade District Superintendent, to Officiating fourth grade.

Mr. A. Shuttleworth, second grade Assistant Superintendent, to Officiating first grade.

ECCLESIASTICAL.—*The* 17*th March* 1890.—The Rev. Charles H. Walker is appointed to act as Chaplain of Kidderpore, during the absence, on leave, of the Ven'ble F. R. Michell, or until further orders.

The 18*th March* 1890.—The Ven'ble F. R. Michell, Archdeacon of Calcutta and Chaplain of Kidderpore, is allowed leave for three months, under article 656 of the Civil Service Regulations, with effect from the 10th proximo, or such subsequent date as he may avail himself of it.

REGISTRATION.—*The* 17*th March* 1890.—Babu Bhuban Mohun Raha, Deputy Magistrate and Deputy Collector of Bankura, is appointed Sudder Sub-Registrar of Bankura, with effect from the 4th February 1890, *vice* Babu Pratap Narayan Singh, retired.

The 18*th March* 1890.—Mr. H. Holmwood, who was, under the order of the 28th February 1890, appointed to act as Inspector-General of Registration, is also appointed, under section 7 of Act XV of 1872, to act, until further orders, as Senior Marriage Registrar of Calcutta, and, under section 7 of Act XV of 1865, to act as Registrar of Parsee Marriages beyond the local limits of the Ordinary Civil Jurisdiction of the High Court.

MEDICAL.—*The* 14*th March* 1890 —The services of Assistant Apothecary W. Marchant, Assistant to the Superintendent, Presidency General Hospital, are placed at the disposal of the Government of India in the Home Department.

The 18*th March* 1890.—Surgeon-Major C. J. W. Meadows, Civil Surgeon of Backergunge, is appointed to act as Civil Surgeon, Moorshedabad, during the absence, on furlough, of Surgeon-Major E. Sanders, or until further orders.

Brigade-Surgeon H. B. Purves, Civil Surgeon, Patna, is appointed to be Civil Surgeon of Howrah.

Surgeon-Major E. G. Russell, Officiating Civil Surgeon of Rajshahye, is appointed to be Civil Surgeon of Patna, *vice* Brigade-Surgeon H. B. Purves.

Surgeon J. ffrench-Mullen, First Resident Surgeon, Presidency General Hospital, is appointed to be Civil Surgeon of Nuddea, and to act as Civil Surgeon of Rajshahye, during the absence, on furlough, of Surgeon-Major L. Cameron, or until further orders.

Surgeon J. Clarke, Second Resident Surgeon, Presidency General Hospital, is appointed to be First Resident Surgeon of that institution, *vice* Surgeon J. ffrench-Mullen.

Surgeon J. H. T. Walsh, Officiating Civil Surgeon, Puri, is appointed to be Second Resident Surgeon, Presidency General Hospital, *vice* Surgeon J. Clarke.

Surgeon-Major R. D. Murray, Officiating Civil Surgeon of Gya, is confirmed in that appointment.

Surgeon G. Jameson, Resident Surgeon, Medical College Hospital, is appointed to be Civil Surgeon, Tipperah, and to act as Civil Surgeon of Puri, during the absence, on furlough, of Surgeon-Major B. Gupta, or until further orders.

Surgeon J. R. Adie, Resident Surgeon, Eden Hospital, Calcutta, is appointed to be Resident Surgeon, Medical College Hospital, *vice* Surgeon G. Jameson.

Surgeon W. R. Edwards, Officiating Civil Surgeon, Nuddea, is appointed to be Resident Surgeon, Eden Hospital, Calcutta, *vice* Surgeon J. R. Adie.

Surgeon D. G. Crawford, Civil Surgeon of Jessore, is appointed to act as Civil Surgeon of Purneah, during the absence, on deputation, of Surgeon-Major R. L. Dutt, or until further orders.

Surgeon-Major J. O'Brien, Officiating Civil Surgeon of Darjeeling, is confirmed in that appointment.

Surgeon-Major G. Price, Officiating Civil Surgeon of Burdwan, is confirmed in that appointment.

Assistant Surgeon Nil Kanta Chatterjee, in charge of the Krishnaghur Charitable Dispensary, is appointed, until further orders, to have medical charge of the civil station of Nuddea in addition to his own duties.

Assistant Surgeon Behari Lal Pal, in charge of the Jessore Charitable Dispensary, is appointed, until further orders, to have medical charge of the civil station of Jessore in addition to his duties.

The following notifications are republished from the *Assam Gazette* :—

No. 1530*G.*—*The 1st March* 1890.—Furlough for one year, under article 340 of the Civil Service Regulations, is granted to Mr. H. C. Williams, C.S., Deputy Commissioner, first grade, and Inspector-General of Police and Jails, Superintendent of Stamps and Registration, and Commissioner of Excise, with effect from the 6th March 1890, or the subsequent date on which he may avail himself of it.

No. 1667*G.*—*The 8th March* 1890.—Mr. R. S. Greenshields, C.S., on being relieved of his duties as Officiating Deputy Commissioner, Kamrup, is posted to the Kamrup district.

No. 10.—*The 5th March* 1890.—Babu Jogendra Nath Deb, Munsif of the First Court of Maulvi Bazar, reported his departure on leave on medical certificate in the afternoon of the 29th January 1890.

No. 18.—Mr. H. C. Williams, C.S., made over charge of the office of the Inspector-General of Police, Jails, and Registration, &c., Assam, to Mr. J. J. S. Driberg, and availed himself of subsidiary leave preparatory to furlough out of India in the forenoon of the 24th February 1890.

No. 16.—Babu Madhav Chandra Bardalai, Extra Assistant Commissioner, made over the executive charge of the Darrang Treasury to Mr. F. C. French, C.S., in the forenoon of the 1st March 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 14th March, 1890.—Under the powers conferred upon him by section 101, sub-section 2, clause (*d*) of the Bengal Tenancy Act VIII of 1885, the Lieutenant-Governor is pleased to order that a survey shall be made and a record of rights prepared in respect of all lands included within the boundaries of estates No. 5256, Chur Umed; No. 5281, Chur Bhoirab; No 5302, Chur Price; No. 5245, Chur Lal Mohan; No. 6384, new chur contiguous to Chur Koralmara; No. 5216, Chur Boiragia; No. 5249, Chur Lord Hardinge; No. 5257, Chur Krishna Prasad; No. 5251, Chur Kali; No. 5221, Chur Goneshpura; No. 6431, Chur Fasson; No. 5305, Chur Drummond; No. 5262, Chur Uday Kali; and No. 5243, Chur Lakhi, in the district of Backergunge. The particulars to be recorded in the survey and record of rights shall be the following :—

(*a*) The name of each tenant.
(*b*) The class to which he belongs, viz, whether he is a tenure-holder, raiyat holding at fixed rates, occupancy raiyat, non-occupancy raiyat or under-raiyat, and if he is a tenure-holder, whether he is a permanent tenure-holder or not, and whether his rent is liable to enhancement during the continuance of his tenure.
(*c*) The situation, quantity, and boundaries of the land held by him.
(*d*) The name of his landlord.
(*e*) The rent payable.
(*f*) The mode in which that rent has been fixed, whether by contract, by order of a Court or otherwise.
(*g*) If the rent is a gradually increasing rent, the time at which, and the steps by which, it increases.
(*h*) The special conditions and incidents, if any, of the tenancy.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th March, 1890.—Under Rule 2, Chapter VI of the Rules made by Government under the Bengal Tenancy Act, Mr. J. McHatton, Surveyor, fourth grade, is appointed to be a Revenue Officer, and is hereby vested with the powers of an Assistant Superintendent of Survey of the Government estates in the Backergunge district.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th March, 1890.—With reference to the notification of this date, published in the *Calcutta Gazette*, ordering that a survey shall be made and a record of rights prepared under section 101 of the Bengal Tenancy Act VIII of 1885 in respect of all lands included within the boundaries of estates—

No. 5256, Chur Umed,	No 5257, Chur Krishna Prasad,
„ 5281 „ Bhoirab,	„ 5251 „ Kali,
„ 5302 „ Price,	„ 5221 „ Goneshpura.
„ 5245 „ Lal Mohan,	„ 6431 „ Fasson,
„ 6384, new chur contiguous to Chur Koralmara,	„ 5305 „ Drummond,
„ 5216, Chur Boiragia,	„ 5262 „ Uday Kali,
„ 5249 „ Lord Hardinge,	„ 5243 „ Lakhi,

in the district of Backergunge, Baboo Pyari Mohan Bose is appointed, under Rule 1, Chapter VI of the Rules made by Government under the said Act, to be Settlement Officer of those estates.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th March, 1890.—In continuation of the notification, dated 24th September, 1889; published in the *Calcutta Gazette* of the 25th idem, the Lieutenant-Governor is pleased, under section 3 of the Bengal Survey Act V of 1875, to direct that a survey shall be made of all lands included within the boundaries of the undermentioned mehals belonging to the Burdwan Raj Estate, which are situated in the district of Bankoora—

Putni Lot Goluckpore, pergunnah Bishnupore, towji No. 1.
Ditto Bhebra, pergunnah Bishnupore, towji No. 1.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 14th March, 1890.—In continuation of the notification, dated 24th September, 1889, published in the *Calcutta Gazette* of the 25th idem, the Lieutenant-Governor is pleased, under the powers conferred upon him under section 101 (2) (*c*) of the Bengal Tenancy Act VIII of 1885, to order that a survey shall be made and a record of rights prepared in respect of all lands included within the boundaries of the undermentioned mehals belonging to the Burdwan Raj Estate, which are situated in the district of Bankoora.

Putni Lot Goluckpore, pergunnah Bishnupore, towji No. 1.
Ditto Bhebra, pergunnah Bishnupore, towji No. 1.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 17th March, 1890.—Under section 3 of Act V (B.C.) of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made in respect of all lands comprised in the pergunnahs of Lembai, Kot Rohang, and Kotdesh, in the district of Pooree, and that the boundaries of estates, tenures, mouzahs, and fields in the said pergunnahs be demarcated on the lands to be surveyed.

2. For the purposes of such survey, the Collector of Pooree is appointed to be the Superintendent of Survey, and Mr. A. K. Ray is appointed to be the Assistant Superintendent of Survey, under section 4 of the said Act.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 17th March, 1890.—Under section 3 of Act V (B.C.) of 1875, the Lieutenant-Governor is pleased to order that a survey shall be made of the lands situated in the tract specified below, in the district of Cuttack, and that the boundaries of estates, tenures, mouzahs, and fields be demarcated on the lands to be surveyed.

The tract commencing on the north at the bifurcation of the Daib and Katjuri rivers (Sankarisai) and bounded on the—

North—By the Katjuri river.
East—By the Alanka river to the crossing of the Machhgaon district road, and the Machhgaon district road to Machhgaon and the Daib river.
West—By the Daib river to boundary of Deogaon pergunnahs, then a line extending west, the southern boundary of Sailo pergunnah to the Pooree district.
South—By the Pooree district.

For the purposes of such survey, the Collector of Cuttack is appointed to be the Superintendent of Survey, and Mr. R. B. Smart to be the Assistant Superintendent of Survey, under section 4 of the said Act.

P. NOLAN,
Secretary to the Govt of Bengal.

DECLARATION.

The 17th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of a new distillery building at Hooghly, in the village of Balagar (town Hooghly), pergunnah Arsha, zillah Hooghly, it is hereby declared that for the above purpose a piece of land measuring, more or less, four bigahs of standard measurement, bounded on the North by the garden of Kartik Boral; East and South by the Balagar Road, Fringipara; and West by the land belonging to the Bandel Church, the garden of Chandra Prasanna Dutt, and the garden of *Jany Shahib*, is required within the aforesaid village of Balagar (town Hooghly).

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery, in which spirituous liquors may be manufactured after the native process, having been established at Balasore, in the district of Balasore, it is hereby notified that from and after the 1st April 1890, within the following limits which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said sudder distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary—Southern boundary of Midnapur district.
Western boundary—The Gurjat territories of Mourbhunj, Nilgiri and Keonjhar.
Southern boundary—Northern boundary of Cuttack district.
Eastern boundary—Bay of Bengal.

W. CORNISH,
Collector.

NOTIFICATION.

The 17th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process having been established at Cuttack Town, in the district of Cuttack, it is hereby notified that from and after the 1st April 1890, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said distillery, shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.—Balasore district and Gurjat State of Keonjhur.
Western boundary.—Gurjat States of Dhenkanal, Atgur, Tigria, Baramba, and Khundpara.
Southern boundary.—District of Pooree.
Eastern boundary.—Bay of Bengal.

A. C. SEN,
For Collector.

NOTIFICATION.

The 17th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery, in which spirituous liquors may be manufactured after the native process, will be established at Nobinabag, in the district of Midnapur, from the 1st April 1890. It is hereby notified that from and after that date, within the following limits which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said sudder distillery, shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern Boundary—District of Bankura.
Eastern Boundary—Districts Hooghly and Howrah and river Hooghly.
Southern Boundary—Bay of Bengal and district of Balasore.
Western Boundary—Tributary State of Mourbhunj and districts of Singbhoom and Manbhoom.

G. W. PLACE,
For Collector.

NOTIFICATION.

The 17th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery, in which spirituous liquors may be manufactured after the native process, will be established at Mahangunj, in kismat Bejpara, in the district of Jessore, from the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured

at the said sudder distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery—

Northern boundary.—Nuddea and Furreedpore districts.
Western boundary.—Nuddea district.
Southern boundary—24-Pergunnahs and Khulna districts.
Eastern boundary.—Gorai river and Furreedpore district.

C. J. O'DONNELL,
Collector.

NOTIFICATION.

The 17th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process having been established at Faridabad, in the town of Dacca, it is hereby notified that from and after the 1st April 1890, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sudder distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery—

Northern boundary.—The northern boundary of zillah Dacca shall be as defined and shown on the revenue survey maps of 1858 to 1860 from the village of Bachamora on the west to the village of Dhamloe on the east, whence it shall pass along the Bunkheroo river to its junction with the Banar, and thence along the Banar to the village of Ooloohurra; then it shall agree with the revenue survey definition to the village of Lukheepore Chur, thence along the Brahmaputra river to its junction with the Megna river.

Whence the eastern boundary shall be as defined on the revenue survey maps of 1858 to 1860.

Southern boundary.—The southern boundary shall be the south or west bank of the most westerly and most southerly open channel of the stream of the Kirteenassa.

Western boundary.—The western boundary shall also agree with the revenue survey definitions of 1858 to 1860 from the village of Chur Chundra on the south to that of Bachamora on the north

L. HARE,
Offg. Collector.

NOTIFICATION.

The 18th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process having been established at Pooree, in the district of Pooree, it is hereby notified that from and after the 1st April 1890, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sudder distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery:—

Northern boundary.—Southern boundaries of the Tributary States of Nayagur and Khandapara, and boundaries of Banki and Pattia estates and of the Cuttack district.

Western boundary.—Eastern boundaries of the Tributary States of Nayagur, Runpoor, and Gumsur, and district of Ganjam in the Madras Presidency.

Southern boundary.—Bay of Bengal.

Eastern boundary.—Boundaries of Cuttack district.

F. W. DUKE,
Offg. Collector.

NOTIFICATION.

The 18th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Khoolna, in the district of Khoolna, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said Sudder distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery—

Northern boundary—Districts of Jessore and Furreedpore.
Western boundary—District of 24-Pergunnahs.
Southern boundary—The Sunderbuns and the Bay of Bengal.
Eastern boundary—Districts of Furreedpore and Backergunge.

BHOOBUNESHWAR SINGH,
For Collector.

NOTIFICATION.

The 18th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at $\frac{\text{Alipore}}{\text{Furreedpore}}$ in the district of Furreedpore, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said central distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

The north and north-eastern boundary.—The river Ganges or Padma from the village of Pubpara on the west to that of Char Titabooniah, &c., on the east.

The eastern boundary.—Thence passes along the river Megna to the village of Ditiakhand Khaliachar ; thence commencing from the river Megna on the east.

The southern boundary—Runs from the Nawabhaugnea river from its junction with the Megna river at Jazeera Char, Sonapore Tazpore, commonly called Char Ditiakhand Khalia, to the village of Dakhinbasgaree, Char Mudunia, which is situated in the bed of the river Nawabhaugnee being excluded ; then it runs down the Arial Kha river to its junction with the Tarkee or Pangasia nadi at Char Ramjampur; then running up the Tarkee or Pangasia nadi to the junction of the said nadi with the Ameengunge khal, which is called in its upper course Gopalpore khal so far as to include the village Puchim Khundulia ; it then includes the following villages on the border of the Backergunge district, viz. :—Dasar, Betbari, Poorbo-Nobogram, Domerkandi, Ramsil Zohorerkandi, Rajbari, Ooturkotalia, Modhurnagar, Horiniahati, Sonagram, Narainkhana, again Sonagram, Kandi ; then following the Jhanjania khal to its junction with the Saldah river, its runs up the Saldah river to its junction with Bageanadi ; then up the Bageanadi so far as to include the village Patgati ; then it follows the Katakhali khal to its junction with the Madhumati river so as to include the village Ghoperdanga.

The south-western and western boundaries—Coincide with the eastern boundary of zillah Jessore (as defined in the notification of the 13th July 1863) from the village Ghoperdanga on the Modhumati river to that of Lakhipore on the Gorai river, whence the western boundary passes along and includes in the following villages, viz. :—Lakhipore, Bhattichalla, Maleeat, Koleemohur, Khoord Bysa, Koostiah, Raghunathpore, Garal, Lakhandia, Ramchandrapore, Khamarpara, Majpara, Beelgazooria, Bulrampore, Singram, Khayradunga, Pubpara up to the Ganges or Padma.

N. K. BOSE,
Offg. Collector.

NOTIFICATION.

The 18th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Bankoora, in the district of Bankoora, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors, unless manufactured at the said distillery, shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery—

Northern boundary.—Limits of Burdwan district.

Western boundary.—Limits of Manbhoom district.

Southern boundary.—Limits of Midnapore district.

Eastern boundary.—Limits of Burdwan and Hooghly districts.

W. V. G. TAYLER,
Collector, Bankoora.

JUDICIAL DEPARTMENT.

No. 174A.

The 18th March 1890. —Babu Radha Kant Banerjee, Deputy Magistrate and Deputy Collector, Manbhum, is vested with the power to try summarily the offences mentioned in section 260 of the Code of Criminal Procedure.

The 14th March 1890.—The Lieutenant-Governor accepts the resignation tendered by Babu Wooma Churn Biswas of his appointment as an Honorary Magistrate of the Cuttack Sudder Bench.

The Lieutenant-Governor accepts the resignations tendered by the undermentioned gentlemen of their appointments as Honorary Magistrates of the Beguserai Bench, in the district of Monghyr—

(1). Munshi Gur Sahai Singh. | (2). Babu Hari Prosad.

The undermentioned gentlemen are appointed to be Honorary Magistrates of the Beguserai Bench, in the district of Monghyr, and are vested with the powers of a Magistrate of the third class—

(1). Babu Isri Prosad. | (2). Babu Ajodhya Prosad.

The 18th March 1890.—Babu Raj Chandra Sanyal, Subordinate Judge of Moorshedabad and Judge of the Court of Small Causes at Berhampore, is allowed leave for one month, under article 306 (*b*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

Babu Ananta Ram Ghose, Munsif of Gya, is appointed to act as Subordinate Judge of Moorshedabad and Judge of the Court of Small Causes at Berhampore, during the absence, on leave, of Babu Raj Chandra Sanyal, or until further orders.

Babu Hara Govind Mookerjee, Officiating Subordinate Judge of Dinagepore, was on leave for one month, under article 306 (*b*) of the Civil Service Regulations, from the 12th February 1890.

Babu Debendra Lal Shome, Additional Munsif of Serampore, in the district of Hooghly, at present Officiating Subordinate Judge of Rungpore, is appointed to be a substantive *pro tempore* Subordinate Judge in the district of Patna, but to continue in his present appointment at Rungpore, during the absence, on leave, of Babu Nil Madhub Banerjee, or until further orders.

Babu Purno Chandra Shome, Subordinate Judge of Mymensingh, is appointed to act as Additional Subordinate Judge of Patna, during the absence, on deputation, of Babu Debendra Lal Shome, or until further orders.

Babu Kali Nath Dhar, Munsif of Azimgunge, in the district of Moorshedabad, is appointed to be a substantive *pro tempore* Munsif of the first grade.

Babu Har Mohan Bose, Munsif of Kasba, in the district of Tipperah, is appointed to be a substantive *pro tempore* Munsif of the second grade.

Babu Tarak Chandra Das, Additional Munsif of Kissengunge, in the district of Purneah, is appointed to be a substantive *pro tempore* Munsif of the third grade.

GRANT OF LEAVE TO MUNSIFS.—*The 11th March* 1890.—Babu Janoki Nath Dutt, Munsif of Burdwan, is allowed leave for one month and nine days, under article 306(*b*) of the Civil Service Regulations, with effect from the 14th February 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—The Lieutenant-Governor sanctions the undermentioned changes in the jurisdictions of thanas Naopara and Daulatpur, in the Kooshtea subdivision of the district of Nuddea—

First.—The villages Khalisakhundi (thakbust No. 157) of pergunnah Sahaujal, Pearpur (thakbust No. 306) of pergunnah Sherpur-Barreah, and Satbarea-Nitarpole or Bittipara Chuk (thakbust No. 289) of pergunnah Ladaoni, which were situated partly in thanas Naopara and Daulatpur, are now wholly included within the jurisdiction of Daulatpur.

Second.—The villages Barobaria (thakbust No. 156), Chuk Jagarnathpur or Katlamari (thakbust No. 170), and Sadarpur (thakbust No. 171) of pergunnah Bhandardoho, Lakhybardia (thakbust No. 298) of pergunnah Taragunia, and Hariballabpur (thakbust No. 307) of pergunnah Sahaujal, which were situated partly in thanas Daulatpur and Naopara, are now wholly included within the jurisdiction of Naopara.

In consequence of the above alterations, the following are declared to be the revised boundaries of thanas Naopara and Daulatpur, in modification of the boundaries defined by the notification dated the 30th September 1879, published at page 995 of Part I of the *Calcutta Gazette*, dated the 1st October 1879.

THANA NAOPARA.

On the north, east, south, and south-west—The boundary remains unchanged.

On the west—Commencing from the village of Rajpur on the left bank of the Matabhanga river, the boundary runs northward along the boundaries of the following villages which are all included within the thana of Naopara, viz, Rajpur, Avuri, Barobaria, Chuk Jagarnathpur or Katlamari, Sadarpur, Bil-Amlah, Hariballabpur, Mohishakona, Maflimpur, Barrea, Nilgram, Lakhybardea, and Satbaria; from the village of Satbaria to Chukla-Binodepur the boundary remains the same as previously defined.

THANA DAULATPUR.

On the north—The boundary remains unchanged.

On the east and south-east—The boundary agrees with the western boundary of thana Naopara as above described.

On the south and west—The boundary remains unchanged.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—The Lieutenant-Governor sanctions, with effect from the 1st April 1890, the establishment of an outpost at Madarihat, subordinate to thana Salbari, in the Alipore sub-division of the district of Julpigoree.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 17th March 1890.

No. 95.—Mr. R. E. Carter, Executive Engineer (temporary rank), attached to the Northern Drainage and Embankment Division, is granted furlough for seven months and fifteen days, with effect from the 15th April 1890.

IRRIGATION.

The 18th March 1890.

No. 97.—*Notification.*—It is hereby notified for general information that the undermentioned canals in the Orissa Circle will be closed for annual repairs from 1st May 1890 to 5th June 1890, both days inclusive.

2. It is also notified that, in consequence of the closure of the canals, the steamer traffic between Cuttack and Albha, Cuttack and False Point, and Cuttack and Bhuddruck, will be stopped during the abovementioned period—

1. Kendrapara Canal with its extension to Jumboo.
2. Gobri Canal with its extension to Albha.
3. Pattamoondy Canal.
4. Taldundah Canal.
5. Machgong Canal.
6. High Level Canal, Range I.
7. Ditto, Range II.
8. Ditto, Range III.
9. Branch canal to Bhuddruck.
10. Jajepore Canal.

No. 98.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for a retired line of embankment from 65½ to 67½ miles of Chumparun-Gundak embankment, in the villages of Manglapur, Masanthan, Puchariya, and Sangrampur, pergunnah Mujhowa, zillah Chumparun, it is hereby declared that for the above purpose a piece of land measuring, more or less, 16 bighas 12 cottahs and 6 chittacks of local measurement, with a rod of 7½ cubits, 10,857 feet long and 2,465 feet broad, running from south to north, is required within the aforesaid villages of Manglapur, Masanthan, Puchariya, and Sangrampur.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

ESTABLISHMENT.

The 18th March 1890.

No. 101.—Mr. C. W. Odling, Superintending Engineer on special duty in the Office of the Chief Engineer and Secretary to the Government of Bengal, Public Works Department, is granted furlough for eight months and fifteen days, with effect from the 15th April 1890.

No. 102.—Mr. J. H. Toogood, Executive Engineer, has been granted by Her Majesty's Secretary of State for India an extension of three months' leave on medical certificate.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

ESTABLISHMENT.

The 17th March 1890.

No. 96.—The following notifications, issued by the Government of India, Public Works Department, are republished for information :—

No. 119.—*The 11th March* 1890.—Mr. T. W. Bartlett, Executive Engineer, first grade, *sub. pro tem.*, State Railways, is transferred from the Establishment under the Government of Madras to that under the Government of Bengal for employment on the Eastern Bengal State Railway.

No. 126.—*The 11th March* 1890.—Mr. W. B. Gray, Examiner of Accounts, attached to the Office of the Examiner of Accounts, Eastern Bengal State Railway, is granted leave out of India on medical certificate for ten months under article 369 of the Civil Service Regulations

No. 126.—*The 11th March* 1890.—Mr. F. F. Hensley, Examiner of Accounts, attached to the Office of the Examiner of Accounts, North-Western Railway, is transferred to the Office of the Examiner of Accounts, Eastern Bengal State Railway.

LOCAL COMMUNICATIONS.

The 18th March 1890.

No. 99.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for a diversion road on the north approach of the Victoria Bridge on the 9th mile of the road from Burdwan to Katwa, in the village of Karjonah, pergunnah Burdwan, zillah Burdwan, it is hereby declared that for the above purpose two plots of land measuring, more or less, 12 cottahs and 9 chittacks of standard measurement, and bounded as follows, is required within the aforesaid village of Karjonah :—

Plot A.—Bounded on the north by Imdad Sheik's land; and on the east, south, and west by the ghaskar land of Gayuram Manji.

Plot B.—Bounded on the north and south by Behari Hari's chakran land; on the west by the Ishandra Tank; and on the east by Nabin Nauji's land.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

CIVIL BUILDINGS.

The 18th March 1890.

No. 100.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the public expense for a public purpose, viz., for the construction of an embankment along the right bank of the Ichamutty river, in mouzah Gopalpur, in the Pubna Municipality, for the protection of the civil station of Pubna, it is hereby declared that for the above purpose a strip of land measuring, more or less, 28 bighas 11 cottahs and 7 chittacks of standard measurement, and passing through the above mouzah, is required.

	B.	C.	CH.
The first plot is bounded on the north by Banamali Ray's land; on the south by Government land; on the west by Lalgola Zemindar's khas land; and on the east by the public road	1	0	10
The second plot is bounded on the north by Lalgola Zemindar's khas land; on the south by Lalgola Zemindar's khas land; on the west by Lalgola Zemindar's khas land and the Ichamutty river; and on the east by the Government Public Works godown, Banamali Ray's land, the Jail garden, the Police lines, and the parade ground	12	19	6
The third plot is bounded on the north by the Police lines, the Judge's kachari compound, the circuit-house compound, the Magistrate's compound, the ferry road, and the Judge's compound; on the south by Lalgola Zemindar's khas land and the Ichamutty river; on the east by Tagore Baboo's land; and on the west by Lalgola Zemindar's khas land and the Ichamutty river	11	18	14
The fourth plot is bounded on the north by the Strand Road; on the south by the Ichamutty river; on the east by Tagore Baboo's land; and on the west by the Judge's compound ...	2	12	9
	28	11	7

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

E. J. MARTIN,
Joint-Secretary to the Government of Bengal.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

NOTIFICATION No. 62Mne.

The 14th March 1890.—Mr. W. G. Hannay, Assistant Shipping Master, Calcutta, is allowed leave for six months, under article 370 of the Civil Service Regulations, with effect from the 19th March 1890.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No. 63Mne.

The 14th March 1890.—Mr. L. Namey is appointed to act as Assistant Shipping Master, Calcutta, during the absence, on leave, of Mr. W. G. Hannay.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No 64Mne.

The 17th March 1890.—The following draft of rules which it is proposed to issue under section 6, sub-section 1, clause (*p*) of Act X of 1889 (the Indian Ports Act), is published for general information.

These rules will be taken into consideration on the expiry of a month from the date of their first publication in the *Calcutta Gazette*, and the Lieutenant-Governor will receive, and give due attention to, any objections or suggestions which may be made by any interested person within that period.

Rules.

1. On the occurrence of a case of cholera, small-pox, or other dangerously communicable disease on board any ship lying in the port, the master shall, as early as possible, send the affected person to hospital, and shall cause the flag R to be hoisted at the fore as a signal to the Health Officer of the Port, and such signal shall not be lowered until the Health Officer has visited the ship

2. The master shall afford such information in regard to the occurrence of the disease as the Health Officer may require, and shall carry out such reasonable instructions regarding the cleansing and disinfection of the vessel and the disposal of polluted clothing, bedding, &c., as that officer may consider necessary to give.

3. If, by reason of the prevalence of any dangerously communicable disease on board any ship, the Health Officer considers it absolutely necessary, for the safety of the crew of other vessels, that such vessel should be segregated, and furnishes the master with a certificate to that effect, the master shall without delay give notice accordingly to the Harbour Master, and the vessel shall be removed to Meteabrooj, or such other place as the Port Commissioners may direct.

4. On the occurrence of a death on board, the master shall without delay inform the River Police, whose permission shall be obtained before the corpse is removed.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No. 66Mne.

The 18th March 1890.—The Lieutenant-Governor accepts the resignation tendered by Colonel C. H. Luard, R.E., of his appointment as a Commissioner for making Improvements in the Port of Calcutta.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No 67Mne.

The 18th March 1890.—Lieutenant-Colonel H. W. Clarke, R.E., Officiating Consulting Engineer to the Government of India for Railways, is appointed, under the provisions of section 7 of Act III (B. C.) of 1887, to be a Commissioner for making Improvements in the Port of Calcutta, *vice* Colonel C. H. Luard, R.E., resigned.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No. 68Mne.

The 18th March 1890.—It is hereby notified that, under section 3 of Act V (B.C.) of 1870, as amended by section 13 of Act III (B.C.) of 1887, and under sections 5 and 10 of the latter Act, the Hon'ble Sir H. Harrison has been re-elected by the Commissioners of the Town of Calcutta to be a Commissioner for making Improvements in the Port of Calcutta.

J. M. McNEILE, *Col.* R.E.,
Secretary to the Government of Bengal.

[First Publication.]

NOTIFICATION No. 65Mne.

The 18th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 32).

BAY OF BENGAL.

BURMA COAST.

Sandoway Buoy Adrift.

A TELEGRAPHIC communication has been received from the Port Officer, Akyab, that the Master of the *Euphrates* has reported that Sandoway buoy has gone adrift.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 17th March* 1890.

[Second Publication.]

NOTIFICATION No. 60Mne.

The 11th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 31).

INDIA—SOUTH.

CEYLON—SOUTH-WEST AND SOUTH COASTS.

Flashing light on Barberyn island—Delay in exhibition.

WITH reference to Notice to Mariners No. 97, dated 14th October last, issued by this Office, the British Admiralty has given notice (No. 73 of 1890) that further information has been received through the Board of Trade, that owing to unavoidable delay, the light has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every minute*, elevated 150 feet above the sea.

Position, lat. 6° 27¾′ N.; long. 79° 57¾′ E.

Flashing light on Dondra head—Delay in exhibition.

That this light also has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every twenty seconds*, elevated 150 feet above the sea.

Approximate position, lat. 5° 55½′ N.; long. 80° 35½′ E.

By direction of the Government of Bengal,

EATON. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th March* 1890.

[Third Publication.]

NOTIFICATION No. 52Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 25).

INDIA—SOUTH.

CEYLON—SOUTH COAST.

Unsuccessful search for shoal ground south-westward of Great Basses.

THE following Notice to Mariners (No. 42 of 1890) issued by the British Admiralty is republished :—

Information having been received from Lieutenant A. Channer, R.N., that during the strength of the S.-W. monsoon in 1889 the light-keeper at Great Basses had reported that he saw the sea break about 6 miles distant, on a S.-W. or S.-W. by W. bearing, from Great Basses light-house, south coast of Ceylon; also that the Master of the steam-vessel *Clan Drummond* had reported that in the S.-W. monsoon of 1888 he had seen the sea break near that position, or about where a depth of 14 fathoms is marked on the Admiralty Chart.

An examination of the locality has been made by Commander R. F. Hoskyn, R.N., in charge of the Marine Survey of India, in I G.S.S. *Investigator*, with the following result :—

Depths of 29 to 31 fathoms were obtained between the bearings of S.-W. ½ S. and S.-W. by W., and distances of from 4 to 8 miles, from Great Basses light-house. No indications of shoal water were found, the bottom being mostly sand or coral; but enough soundings were not taken to disprove the possible existence of a rock. The whole of that neighbourhood is covered with swirls and eddies, caused apparently by the current sweeping past Great Basses, and Commander Hoskyn has no doubt that in a moderate breeze the sea would break in many places.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication.]

NOTIFICATION No. 53Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 26).

AUSTRALIA—NORTH COAST.

BATHURST ISLAND—WEST COAST.

Sunken rock westward of Cape Helvetius.

THE British Admiralty has given notice (No. 43 of 1890) of the existence of a sunken rock off Cape Helvetius, west coast of Bathurst island, on which the schooner *Wanganui* recently struck :—

The position given for the rock (*Wanganui rock*) is with Cape Helvetius bearing E. by S. distant 3 miles. The depth on the rock is probably less than 6 feet. As the distance of this rock from the land depends upon estimation, its position is very doubtful.

Position, approximate, lat. 11° 40′ S.; long. 129° 56′ E.

NOTE.—The attention of Mariners is directed to the cautionary Note on the Chart in this neighbourhood, and they are recommended not to approach the coast between Cape Fourcroy and Cape Helvetius within a distance of 8 miles, until further examination shall have been made.

(*Variation 2° Easterly in* 1890.)

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication.]

NOTIFICATION No. 54Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 27).

RED SEA—WESTERN SHORE.

MUSAWWA CHANNEL NORTH.

Fixed light on Difneïn Island.

THE British Admiralty has given notice (No. 49 of 1890) that on 26th December 1889, a light was exhibited from a light-house recently erected on the north-east point of Difneïn island :—

The light is a *fixed white* light, visible through an arc of 295°, or between the bearings of N. 46° W., through east, and S. 69° W. It is elevated 62 feet above the sea, and should be seen in clear weather from a distance of 6 miles.

The light-house, 33 feet high, is the shape of a truncated pyramid with a quadrangular base, constructed of wood, and painted white.

Position, lat. 16° 37′ 10″ N.; long 39° 18′ 45″ E.

(*Variation 4° Westerly in* 1890).

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication.]

NOTIFICATION No. 55Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 28).

JAVA—NORTH-EASTERN COAST.

MADURA STRAIT.

Alterations in light on Zwantyes (Koko) reef.

THE British Admiralty has given notice (No. 55 of 1890) that the following alterations have been made in the light exhibited from Zwantyes (Koko) reef, Madura strait, eastern coast of Java :—

The light is a *flashing white* light, showing a *flash* every *thirty seconds.*
The illuminating apparatus is of the fourth order.
In other respects this light is unchanged.
Position, lat. 7° 28′ S.; long. 113° 7′ E.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication.]

NOTIFICATION No. 56Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 29).

JAPAN.

SIKOK, SOUTH COAST.

Foul ground southward of Kogi Saki-Nomi Harbour.

THE British Admiralty has given notice (No. 56 of 1890) that foul rocky ground extends for a distance of 1½ cables in a S. by E. direction from Kogi Saki, northern side of entrance to Nomi harbour :—

A rock with 5 feet on it at low water spring tides, lies at the southern extreme of this foul ground, with the following bearings :—

Nomi Saki	... E.N.E.
Kadoya Saki in line with Maru Saki ...	... W. by N. ¾ N.
Kogi Saki	... N. ½ W.

NOTE.—The western point on the northern side of the entrance to the harbour is named Maru Saki; the point 2 cables eastward, Kogi Saki; and the point southward of Nomi village, Nomi Saki. On the south side of the harbour, the point about 4 cables north-eastward of Hey Sima is named Onaga Sima; and the point 4 cables further north-eastward, Konaga Sima.

(*Variation 4° Westerly in* 1890.)

By direction of the Government of Bengal,

EATON. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

[Third Publication]

NOTIFICATION No. 57Mne.

The 4th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 30).

BAY OF BENGAL.

BRITISH BURMA—PEGU.

Regarding the approach to the Bassein River.

THE following information has been received from the Officer in charge of the party surveying the approach to the Bassein river :—

2¼ fathoms rock were found 1·3 miles S. ¼ W. of Alguada light-house.
Also 5 fathoms 1·8 miles S. *b* W. of the light-house.
Currents strong and water much discoloured.
Pending the completion of the survey, he recommends vessels to keep at least 2½ miles to southward of the light-house, as there may be less water in the latter position—
Bearings Magnetic.
Variation 2° 50′ E.
Charts affected hereby No. C137 and 152.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 3rd March* 1890.

EASTERN BENGAL STATE RAILWAY.

NOTIFICATION.

No. 4.—Mr. M. J. Chabrel. Executive Engineer, third grade, has been granted six months' leave on medical certificate under Article 369 of the Civil Service Regulations, with effect from 6th March 1890, with subsidiary leave from 12th February 1890 to 5th March 1890, under Articles 199, 355, and 378 of the said Regulations, as sanctioned by the Government of Bengal.

The 17th March 1890. G. F. O. BOUGHEY, *Lieut.-Col., Manager.*

JAIL DEPARTMENT.

No. 2536, *dated the 13th March* 1890.—Surgeon-Major E. G. Russell made over charge of the Rajshahye Central Jail to Surgeon J. ffrench Mullen on the forenoon of the 7th March 1890.

A. D. LARYMORE,
For Inspector-General of Jails, Bengal.

HIGH COURT NOTICE.

NOTIFICATION.

THE security deposited by the undermentioned mukhtar having been attached and withdrawn, and he having failed to deposit a fresh security, has ceased to be mukhtar of the High Court on its Appellate Side. His certificate has been cancelled and his name removed from the roll—

NAME.	No. in list.	No. in register.
Bisheshur Bhuttacharjee	15	90 of 1883.

By order of the High Court,
C. M. W. BRETT,
Registrar.

HIGH COURT, *the 14th March* 1890.

Sheriff's Office, the 19th March 1890.

NOTICE is hereby given that the Second Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal, for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the twenty-eighth day of April next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ১৯শে, মার্চ্চ।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার ফোর্ট উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তি জন্য আগামী সন ১৮৯০ সালের ২৮শে, এপ্রেল সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিকাতার হাই কোর্টের আপন আদালত ঘরে সন ১৮৯০ সালের দ্বিতীয় ক্রমিসেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন কয়েদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচঃ বিঃ এইচঃ টারনার, শরিফ।

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 11th March 1890.—Babu Tripura Charan Banerjea, B A., Third Master of the Bhagulpore Zillah School, on leave, (class VI), is allowed leave of absence for ten days under Article 372 of the Civil Service Regulations, in extension of that granted to him under orders of the 21st January 1890.

In modification of the orders of the 30th January 1890, Babu Dwarka Nath Bose, B A., Second Master of the Furreedpore Zillah School (class VI), is allowed leave of absence for one month and eighteen days under Article 306(*b*) of the Civil Service Regulations, with effect from the 23rd December 1889.

A. CROFT, *Director of Public Instruction.*

Pleadership and Mookhtarship Examinations.

THE following is a list of the candidates who have passed the Pleadership Examination held on the 19th and 20th February last :—

Roll number.	Name.	Roll number.	Name.
1	Indra Chandra Sur.	37	Mahamed Noor.
4	Rai Pada Sinha.	42	Krishna Sundar Sarkar.
7	Sital Prasad Misra.	46	Ambica Pershad.
23	Hari Prasanna Bose.	47	Devakar Pershad.
24	Srish Chundra Sen.	52	Ramdari Sahoy.
24A	Mahendra Chandra Sen.	60	Kisory Mohan Pal.
25	Rames Chandra Sasmal.	63	Hari Das Bakshi.
30	Kailash Chandra Neogi.	67	Bireswar Chatterji.
35	Surya Kumar.	69	Abdur Rahim.
36	Sambhu Nath Sinha.	73	Kunja Behari Dutt.

Pleaders admitted under the proviso to paragraph 1, Rule 4, and restricted to practising in the districts comprised within the Chief Commissionership of Assam—

Roll number.	Name.	Roll number.	Name.
75	Chandra Kumar Surma.	77	Braja Sundur Surma.
76	Pyari Lal Shome.	79	Harendra Chandra Sinha.

HENRY T. HYDE,
Secretary to the Board of Examiners for Pleadership and Mookhtarship.

NOTICE

Is hereby given that for the next Half-yearly Departmental Examination of Assistants and others, commencing on Monday, the 21st April 1890, two local centres will be formed in the Bhagulpore Division, viz., one at Purneah for examinees employed in the district of Purneah, and the other at Bhagulpore for those employed in all the other districts of the Bhagulpore Division.

C. C. STEVENS, *Offg. Commissioner.*

COMMR.'S OFFICE, BHAGULPORE, *the 14th March* 1890.

NOTIFICATION OF THE BOARD OF REVENUE.

No. 304B.

NOTICE is hereby given that the Fourth Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Wednesday, the 2nd April 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

		Chests.
Opium manufactured at the Patna Factory ..	...	2,250
Ditto at the Ghazeepore Factory ...	...	2,500
Total	...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 7th and 17th April 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 3-30 P.M. of Monday, the 7th April 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Thursday, the 7th April 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale up to December next about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so :—

DATES.		Manufactured at the Patna Factory, about chests.	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Thursday, 1st May	1890 ...	2,250	2,500	4,750
On or about Monday, 2nd June	,, ...	2,250	2 500	4,750
On or about Wednesday, 2nd July	,, ...	2,250	2,500	4,750
On or about Monday, 4th August	,, ...	2,250	2,500	4,750
On or about Monday, 1st September	,, ...	2,250	2,500	4,750
On or about Wednesday, 1st October	,, ...	2,250	2,500	4,750
On or about Monday, 3rd November	,, ...	2,250	2,500	4 750
On or about Monday, 1st December	,, ...	2,250	2,500	4,750
TOTAL	...	18,000	20,000	38,000

By order of the Board of Revenue, L. P.,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 25th February* 1890.

Notification under Section 30 *of Act XII of* 1882 (*The Indian Salt Act*).

IN exercise of the powers conferred by the 2nd paragraph of Notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67—72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari, and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorizes the person named below to exercise the powers of a Salt Revenue Officer :—

Locality.	Name.	Rank.	Powers to be conferred.	REMARKS.
Chandbally Circle...	Sheik Bhikan ...	Peon, 3rd grade	Salt Revenue Officer.	*Vice* Bhaigo Parira, who has forfeited his appointment through absence without leave.

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), MADRAS, *the 3rd March* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that at an election held under section 27, Act III (B.C.) of 1884, on Monday, the 10th February 1890, Baboo Sita Prasanna Mukherjee was duly elected a Commissioner for Ward No. II of the Dainhat Municipality, in the district of Burdwan, *vice* Baboo Jogendra Chandra Chatterjee, resigned.

G. TOYNBEE, *Offg. Commissioner.*

BURDWAN COMMR.'S OFFICE, *the 11th March* 1890.

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 24th ultimo, Baboo Ram Urjhoon Pandey and Shaikh Abdur Rahman were elected Commissioners of the Sewan Municipality, *vice* Baboo Ramphul Saho and Shaikh Atta Hossain.

JOHN BOXWELL, *Offg. Commissioner.*

PATNA COMMR.'S OFFICE, BANKIPORE, *the 5th March* 1890.

NOTIFICATION.

The 10th March 1890.—It is hereby notified, under Rule 21 of the Revised Election Rules, for general information, that an election will be held on Saturday, the 3rd May 1890, under section 27 of Act III (B.C.) of 1884, in Ward No. II of the Sherepur Municipality, in the district of Mymensingh, for the election of a Commissioner to fill the vacancy caused by Baboo Bhairab Chandra Ghose ceasing to be a Commissioner under section 20 of the Act.

A. L. CLAY, *Offg. Commissioner, Dacca Division.*

NOTIFICATION.

IT is hereby notified for general information that at the bye-election held on the 15th ultimo in Ward No. VIII of the Baduria Municipality, in the district of the 24-Pergunnahs, Baboo Shama Churn Chowdhury has been duly elected a Commissioner for that Ward in the place of Baboo Sita Nath Banerjee, who has ceased to be a Commissioner under section 20 of the Municipal Act.

A. SMITH, *Commissioner.*

COMMR.'S OFFICE, PRESY., DIVN., CALCUTTA, *the 12th March* 1890.

NOTIFICATION.

IT is hereby notified for general information that an election will be held, under section 27 of Act III (B.C.) of 1884, on 24th of April 1890, in Ward No. VII (Alaipore), in the Nattore Municipality, in the district of Rajshahye, for the purpose of electing a Commissioner in the place of Baboo Behary Lal Sanyal, resigned.

HARI MOHAN CHANDRA, *Personal Asst., for Commr., Rajshahye Divn.*

COMMR.'S OFFICE, RAJSHAHYE DIVN., JULPIGOREE, *the 15th March* 1890.

NOTIFICATION.

The 14th March 1890.—In supersession of the notification, dated the 22nd ultimo, it is hereby notified for general information that at a bye-election held, under section 27, Act III (B.C.) of 1884, on the 9th ultimo at English Bazar, in the district of Maldah, the undermentioned gentlemen were elected to be Commissioners of the Municipality at that station—

Ward No. I.

Baboo Sita Nath Choudhery, *vice* Baboo Gopal Krishna Roy, resigned.

Ward No. IV.

Baboo Koilash Chandra Audhikari, *vice* Baboo Krishna Lal Dass, deceased.

C. C. STEVENS, *Offg. Commissioner.*

NOTIFICATION.

IT is hereby notified for general information that a bye-election, under section 27, Act III (B. C.) of 1884, will be held on the 8th May next in Ward No. III of the Naihatti Municipality, in the district of the 24-Pergunnahs, for the purpose of electing a Commissioner for that Ward in the place of Baboo Trailukhya Nath Pal, who has ceased to be a Commissioner by being absent from six consecutive meetings.

A. SMITH, *Commissioner.*

COMMR's. OFFICE, PRESY. DIVN., CALCUTTA, *the 13th March* 1890.

NOTIFICATION.

IT is hereby notified for general information that, under Rule 22C of the Revised Dispensary Manual, Baboo Nirmul Chunder Ghosh, zemindar, is appointed a member of the Taki Dispensary Committee, *vice* Baboo Surendra Nath Roy Chowdhury, deceased.

A. SMITH, *Commissioner.*

COMMR.'s OFFICE, PRESY. DIVN., CALCUTTA, *the 12th March* 1890.

The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

The following orders, issued by the Government of India in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS.—MEDICAL.

The 14th March 1890.

No 171.—Kumar Bhupendra Narayan is admitted temporarily into the Uncovenanted Medical Service in the Bengal Presidency. His services are placed at the disposal of the Government of Bengal.

JUDICIAL.

The 12th March 1890.

No. 329.—Under the provisions of the Act of Parliament, 24 and 25 Vict., Cap. 104, section 7, the Governor-General in Council is pleased to appoint Mr. R. F. Rampini, Bengal Civil Service, District and Sessions Judge, Burdwan, to officiate as a Judge of the High Court of Judicature at Fort William in Bengal, during the absence, on furlough, of the Hon'ble Mr. Justice Beverley, or until further orders.

No. 332.—Under the provisions of the Act of Parliament, 24 and 25 Vict., Cap. 104, section 7, the Governor-General in Council is pleased to appoint Mr. Charles H. Hill, Barrister-at-Law, Public Prosecutor to the Government of the North-Western Provinces and Oudh, to officiate as a Judge of the High Court of Judicature at Fort William in Bengal, during the absence, on furlough, of the Hon'ble Mr. Justice Trevelyan, or until further orders.

No. 336.—The Hon'ble the Chief Justice has granted Mr. C. M. W. Brett, Registrar of the High Court of Judicature at Fort William in Bengal, furlough for seven and a half months, with effect from the 3rd April 1890, or any subsequent date on which he may avail himself of it, together with the necessary subsidary leave.

The 13th March 1890.

No. 339.—The Hon'ble L. R. Tottenham, a Judge of the High Court of Judicature at Fort William in Bengal, has obtained furlough for five months, with effect from the 17th April 1890, together with the necessary subsidiary leave.

No. 341.—Under the provisions of the Act of Parliment, 24 and 25 Vict., Cap. 104, section 7, the Governor-General in Council is pleased to appoint Mr. H. W. Gordon, Bengal Civil Service, District and Sessions Judge, Sarun, to officiate as a Judge of the High Court of Judicature at Fort William in Bengal, during the absence, on furlough, of the Hon'ble Mr. Justice Tottenham, or until further orders.

The 14th March 1890.

No. 346.—Mr. A. Phillips, Barrister-at-Law, Standing Counsel for the Presidency of Fort William in Bengal, is granted leave under Article 727A of the Civil Service Regulations from the date on which he may avail himself of it to the 27th November 1890, both days inclusive.

Home Department Notification No. 280, dated 1st March 1890, is hereby cancelled.

No 348.—Mr. L. P. Pugh, Barrister-at-Law, is appointed to officiate as Standing Counsel for the Presidency of Fort William in Bengal, during the absence, on leave, of Mr. A. Phillips, or until further orders.

C. J. LYALL,
Offg. Secy. to the Govt. of India.

The following order, issued by the Government of India in the Foreign Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th March 1890.

No. 411*G.*—Consequent on the return from privilege leave of Captain H. L. Ramsay, Political Agent of the 3rd class, the following reversions are made in the graded list of the Political Department, with effect from the 21st February 1890 :—

Mr. E. G. Colvin, from Officiating Political Agent of the 3rd, to Officiating Political Assistant of the 1st class.

* * * * * * * *

W. J. CUNNINGHAM,
Offg. Secy. to the Govt. of India.

The following orders, issued by the Government of India in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 14th March 1890.

MEDICAL DEPARTMENT.

The 29th March 1890.

To be Deputy Surgeon-General.

Brigade-Surgeon Jesse Griggs Pilcher, F.R.C.S., *vice* Deputy Surgeon-General Rice, promoted.

RETIREMENTS.

No. 248.—The undermentioned officers are permitted to retire from the service, with effect from the dates specified, subject to Her Majesty's approval—

Colonel William Leycester Samuells, Bengal Staff Corps—3rd April 1890.

* * * * * *

E. H. H. COLLEN,
Secretary to the Govt. of India.

The following order, issued by the Government of India in the Public Works Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

Calcutta, the 11th March 1890.

No. 124.—The services of Mr. O. Oertel, Assistant Engineer, first grade, North-Western Provinces and Oudh, are placed temporarily at the disposal of the Government of Bengal for employment as Professor in the Civil Engineering College at Seebpore, Howrah, with effect from the 18th February 1890.

R. C. B. PEMBERTON, *Col*, R.E,
Secretary to the Government of India.

The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 13th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Madan Chundra Sanyal to be a Commissioner of the Kumarkhally Municipality, in the district of Nuddea, *vice* Baboo Fatick Chundra Mozoomdar.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th March 1890.—It is hereby notified that, under section 17, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint the following gentlemen to be Commissioners of the Netrokona Municipality, in the district of Mymensingh:—

Baboo Jagat Chandra Bose.
„ Kali Kumar Ukil.
Munshi Faizuddin Ahammad.
„ Jahiruddin Ahammad.
„ Golam Hosein.
„ Mohammad Hashmatt.
Baboo Gagan Charan Chatterjea.
„ Ishan Chandra Biswas.
Baboo Kali Sankar Chacravarti.
„ Dvarka Nath Lahiri.
„ Rajani Kantha Bhuttacharjea.
Munshi Mahamed Nazim.
Baboo Abhoy Chandro Chakrabatty.
„ Broja Nath Goswami.
Moulvie Muhammed Mufazzel Hosein.
Baboo Ram Narasingh Bhowmick.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 13th March 1890.—It is hereby notified for general information that, in exercise of the power conferred on him by section 86 of the Bengal Municipal Act III (B.C) of 1884, and in accordance with the recommendation of the Commissioners of the Naihatty Municipality, made at a meeting, the Lieutenant-Governor intends to sanction the levy by the Commissioners, under section 131 of the Act, of a tax on carriages and on horses and other animals mentioned in the fifth schedule of the Act, at rates not exceeding those mentioned in the said schedule, unless good reasons are shown to the contrary within one month from the date of publication of this notification within the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 15th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Nibaran Chundra Mukerjea to be a Commissioner of the Bhagulpore Municipality, *vice* Mr. A. A. Wace, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 15th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Munshi Tuslimuddeen Ahmed to be a Commissioner of the Rungpore Municipality, *vice* Moulvie Abdul Khalique, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—It is hereby notified that the Lieutenant-Governor is pleased to approve the election by the members of the Tajpur Local Board, in the district of Durbhunga, under section 25 of Act III (B.C.) of 1885, of Mr. L. S. Maddox, C.S., to be their Chairman, *vice* Mr. W. Maude.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—It is hereby notified that, under section 33, Act II (B.C.) of 1888, the Lieutenant-Governor is pleased to appoint Mr. H. Lee, C.S., to be a Commissioner of Calcutta, *vice* Surgeon-Major J. O'Brien, resigned.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—It is hereby notified that, under section 19, clause (3) of the Bengal Local Self-Government Act III (B.C.) of 1885, the Lieutenant-Governor is pleased to appoint Baboo Kishore Lal Misser to be a member of the Sudder Local Board, in the district of Bhagulpore, in the place of Mr. F. W. Duke, C.S., transferred.

H. J. S. COTTON,
Offg. Secy. to Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—In the notification, dated the 7th January 1890, published at page 9, Part IB of the *Calcutta Gazette* of the 15th idem, containing the names of the gentlemen appointed to be members of the several Local Boards in the district of Jessore, *for* "Revd. R. H. Tregillees" and "Syed Ahmad" *read* "Revd. R. H. Tregillus" and "Syed Ahmad Ulla."

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 17th March 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the following gentlemen have been elected to be members of the District Board of Burdwan:—

Local Boards by which elected.		Names of members.
Sudder	..	Baboo Nali Naksha Basu. „ Bunwari Lal Hati. Munshi Ghulam Asduk.
Culna	...	Baboo Purusuttam Basu. „ Nrisingha Ram Chakrabutty.
Cutwa	...	Baboo Brajendra Nath Sen. „ Kedar Nath Banerjee.
Ranigange	...	Kumar Dakshineswar Mulia. Baboo Kulada Prasad Mukerjea.

2. The following gentlemen are appointed, under section 7 of the Act, to be members the Board:—

The Senior Covenanted Assistant to the Magistrate for the time being, or, if there is no covenanted officer, the Senior Deputy Magistrate and Deputy Collector ... ...
The Civil Surgeon .. ..
The Executive Engineer, Burdwan Division ... ...
The Deputy Inspector of Schools ... ...
Ex-officio.

Lala Ban Bihari Kapur.
Mr. H. R. Reily.
Baboo Lalit Mohan Singha Ray.
„ Nritya Gopal Singha.
Saiyad Sadaruddin Ahmed.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, Mr. G. B. Young has been elected by the members of the Tajpur Local Board, in the district of Durbhanga, to be a member of the District Board of Durbhanga, *vice* Mr. E. Dalgliesh.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr. F. H. Barrow, C.S., to be the Chairman of the Gya Municipality, in the district of Gya, *vice* Mr. G. A. Grierson.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—It is hereby notified that, under section 25 of Act III (B.C) of 1885, the Lieutenant-Governor is pleased to appoint Mr. E. Geake, C S., Sub-divisional Officer, to be the Chairman of the Raneegunge Local Board, in the district of Burdwan.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 18th March 1890.—The following list showing (*a*) the number of members fixed by the Lieutenant-Governor under section 7 of the Bengal Local Self-Government Act, 1885, for the District Board of Midnapore, and (*b*) the number of members of the District Board to be elected by each of the Local Boards in the district, is published for general information :—

District Board of	Number of members fixed for the District Board.	Local Board of	Number of members of District Board to be elected by the Local Board.
Midnapore	24	Midnapore	5
		Contai	3
		Tumlook	2
		Ghattal	2

This notification cancels the notification, dated the 6th April 1886, published at page 98, Part IB of the *Calcutta Gazette* of the 7th idem, so far as it relates to the constitution of the Midnapore District Board.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 4th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Soory Municipality for a public purpose, viz., for the construction of a well in the municipal market in the town of Soory, pergunnah Khatanga, zillah Beerbhoom, it is hereby declared that for the above purpose a piece of land measuring, more or less, 1 cottah and 7½ gundas of standard measurement, is required. The land is bounded on the North by Koilas Khan's house ; on the East by a road and Kali Layek and Dhanu Khan's houses ; on the South by the Jubilee Bazar Road ; and on the West by waste land and Latikan Bibi's house.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*.—If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
		A. R. P.	Rs.
98	Kismut Jot Kusturi, pergunnah Kotuali	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
68	Shahapur, pergunnah Joynugal.	3,490 7 0	.....	2a. 13g. 1k. 1 krant	Choudhuri Mahomed Ichcha and others.	581 11 8	.....	4 7 0
75	Turigram, pergunnah Shahajapur.	1,508 0 0	The whole	.....	Shekh Tarikulla ...	.....	0 2 0	.....
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0	.....	8a.	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	13 1 6
109	Daurka, pergunnan Ichchapukhuria.	1,803 1 0	.....	13a. 17g. 2k. ...	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy, minor, and others.	1,563 9 3	.....	3 10 1
122	Bajitpur, pergunnah Akbarshahi.	2,006 1 0	.....	9a. 8g. 1kag. 8 kl.	Nil Madhab Roy and others.	1,760 12 11	.....	14 4 6
936	Palitpur Basantepur, pergunnah Dadshahi.	751 10 0	The whole	.....	Ratan Kumari Bibi and others.	.....	218 8 0	.....

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy. Collector in charge.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid down at once.

IV.—If the amount of the purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	Remarks.
			B. K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling-house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bhagulpore, will be put up to sale at the Bhagulpore Collectorate, on Monday, the 31st day of March 1890, corresponding with 25th Choitra 1297 Fusli.

The purchasers will be subject to the following conditions of sale.

Conditions of Sale.

1. The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

3. If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled, the sum deposited being forfeited to Government and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

Number on district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Upset price.	Remarks.
		Acres.	Rs.	Rs.	
4981	Kolakhurd Bhatatar, pergunnah Bhagulpore.	3	10	20	

Bhagulpore Collectorate, the 25th February 1890. A. A. WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Rajitpur.	2,124 4 7	.....	Share No. 1, 3as. 8g. 2c. 16f.	Shital Nath Bhanga and others.	420 2 8	.....	82 8 9
127-1	Kismut pergunnah Bhaluka	14,943 15 8	.....	Share No. 1, 4g. 13-5-8-1	Grijanath Ray Chowdhury and others.	224 13 5	.....	31 10 5
159-4	Kismut Ramdanga, pergunnah Sarpurajpur.	549 13 8	.....	Share No. 4, 2as. ...	Hiran Chandra Majumdar and others.	68 11 8	.....	13 3 2
170-2	Kismut pergunnah Silimabad.	5,784 6 6	.....	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	885 11 9½	.....	810 15 6

Khulna Collectorate, the 8th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banameh Mahadev Mukhopadhya.	10,768 0 1½	.....	Residue share] ... Hisya 2*a.* 13*g.* 1*kr.* 1*kt.*	Hara Sundari Chaudhurani and others. Monindra Nath Mukhopadhya and others.	8,973 5 4½ 1,794 10 9	....	8,624 7 4½ 725 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hyderabad Khachak Pitrush market.	688 5 4½	Entire estate.	.....	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	69 12 2½	.....
194	Pergunnah Rajnagar, hisya Raj Krishna Sen, Chakla Nurpur Hurannessa.	708 9 11½	.....	Residue share ...	Husni Khanam and others,	261 13 6½	.....	78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 5½	.....	Hisya 2*g.* 3*kr.* 3*kt.*	Durga Sunker Sen ...	5 7 9	.....	2 8 1
272	Pergunnah Shahebabad May Peshkosh Dewani, Banameh Mirza Hyderalt.	533 5 4	.....	Residue share ... Hisya 1*a.* 11½*g.* ...	Rajendra Narain Bandapadhya. Ditto ditto ...	133 5 1 53 1 4	....	63 7 1 23 9 9
325	Tuppeh Mohesswardi, Banameh Saha Newaj Khan, Elahi Newaj Khan.	14,133 5 4½	.....	Hisya 15*g.* 1*kr.* 1*kt.* 6*t.* Ananda Mohon, Hari Mohon and Krishna Mohon Das.	Ananda Mohon Das and others.	677 2 6	.....	192 3 9
392	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8*a.* Radha Madhav.	1,452 9 1	.....	Residue share ...	Nanda Kumar Guha...	425 6 1½	.....	150 11 6
393	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, hisya 8*a.* Raj Kishore Sen.	1,452 9 1	.....	Ditto ...	Rup Lal Raghu Nath Das and others.	554 10 2½	.....	145 8 7
534	Pergunnah Bhawal Jawar Naluakot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	544 0 0	.....	Ditto ...	Joy Chandra Chaudhury and others.	74 15 9½	.....	43 13 2½
				Hisya 1*a.* Banga Chandra, Har Chandra Chakraverty.	Banga Chandra Chakraverty and others.	84 0 0	.....	14 5 9½
				Hisya 9*g.* 2*kr.* 1*kt.* Bramya Mayi Debya.	Brahmya Mayi Debya	16 4 8	.....	14 1 1
552	Pergunnah Mobarak Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	384 6 9½	.....	74 13 2
562	Shahar Chandina May Peshkosh Chandina, Maulvi Abdul Ali.	1,898 10 8	.....	Ditto ...	Protap Chandra Das and others.	664 8 2	.....	170 4 6
569	Pergunnah Bikrampur, taluq Ram Ganga Hosu.	684 3 0	.....	Ditto ...	Sitamani and others ...	236 9 0	.....	95 0 6
4349	Pergunnah Patpashar, taluq Golam Hosen Chaudhuri.	930 3 11½	.....	Ditto ...	Amirannessa Khatoon, Manager for Maulvi Abdul Hye and others.	359 1 9	.....	86 15 11
				Hisya 1½*a.* Najbannessa and others.	Najbannessa and others.	87 3 5	.....	8 9 16
				Hisya 8*a.* 2*g.* 1*kr.* 1½*kg.* Hamidannessa and others.	Hamidannessa Khatoon and others.	181 12 2	.....	55 11 1
5349	Pergunnah Hashara Raja Ram Chaudhuri.	823 10 1	Entire estate.	.....	Gojendra Nath Shome and others.	.....	1 12 0	.....
6551	Pergunnah Rajnagar, taluq Debi Prosad Ghosh.	642 2 1½	.....	Residue share ...	Kala Chand Shaha and others.	535 1 8½	.....	40 1 5
8434	Char Buktabali ..	584 0 0	Entire estate.	.....	Pran Nath Pare and others.	.....	153 0 0	.....
8660	Tuppeh Amirabad, Estate No. 234.	760 4 1½	Ditto ...	.....	Abhaya Charan Das and Brojendra Kumar Rai Chaudhuri.	.....	73 14 3	.....
9069	Char Fukurhati within Char Krishnapura.	519 0 0	Ditto ...	.....	Kripa Mayi Debya and others.	.....	7 2 0	.....
9083	Mouzah Golara Baluchari within Char Jalua Kamta.	752 0 0	Ditto ...	.....	A. M. Bhoogy Shaheb, Receiver.	.....	149 0 0	.....
9101	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto ...	.....	Kailash Bashini and Bindhu Bashini Chaudhurani and others.	.....	299 0 0	.....
9762	Pergunnah Burdakhat Char Delwarpur.	4,196 0 0	Ditto ...	.....	Joharuddin Hyder and others.	.....	1,058 0 0	.....

Dacca Collectorate, the 8th February 1890.

L. HARE, Offg. Collector.

NOTICE is hereby given, under section 6 of Act XI of 1859, that the undermentioned estates and shares of estates in the district of the 24-Pergunnahs will be put up for sale at the Collector's Office of that district on the 15th April 1890, for arrears of revenue which fell due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
15	Pergunnah Magura, mouzah Khariberia and others.	Rs. A. P. 4,091 4 2½	Whole estate.	.....	Hem Chundro Rai Chowdhury and others.	Rs. A. P.	Rs. A. P. 636 3 10½	Rs. A. P. .....
53	Pergunnah Magura, Kismut Rameshurpur and others.	3,287 3 0	Do. ...	.....	Radha Mohon Mondle and others.	.....	215 2 9½	.....
63	Pergunnah Magura, Kismut Sashdroni and others.	9,135 6 1½	.....	9a. 18g. 1kr. 9½ residuary share.	Indromoni Dassi	5,517 7 11½	.....	1,721 2 10
64	Ditto ditto ...	6,849 4 9	.....	10a 8g. 6kag. 8 residuary share.	Presonna Kumar Banerjee and others.	4,455 12 9	.....	40 0 8
151	Pergunnah Bareedhati and other kismut, chuck Haturia and others.	39,930 11 11½	.....	15a 15g. 2kr. 12½ residuary share.	Treylukho Nath Biswas and others.	39,376 1 11½	.....	274 15 2
315	Pergunnah Mooragacha, Kismut Roghunathpur and others.	10,256 13 10½	.....	9a. 7g. 3kr. 1kt. residuary share.	Saroda Dassi and others.	6,020 9 0½	.....	136 8 10½
322	Pergunnah Mooragacha, mouzah Aulumpur and others.	10,565 0 2	.....	8a. 10g. 11kg. 9-6 residuary share.	Shib Narain Mukerjee and others.	5,834 7 8½	.....	131 15 11
342	Pergunnah Bala, Kismut Panchoor and others.	2,136 15 4	.....	10a. 18g. 1kr. 1kt. residuary share.	Monindro Mohun Mookerjee and others.	1,434 10 8½	.....	95 12 9½
350	Pergunnah Balia, mouzah Krishnanagur and others.	3,137 8 3	.....	13a. 17g. 2kr. 1kt. residuary share.	Monindro Mohan Mukerjee and others.	2,720 13 0	.....	822 0 9
355	Pergunnah Balia, Kismut Baipur and others.	3,762 0 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Bankey Behary Mondle and others.	1,818 7 6½	.....	80 4 9½
358	Pergunnah Balia, mouzah Rajarampur and others.	1,194 3 5	Whole estate.	.....	Kally Kristo Mondle and others.	.....	99 12 7½	.....
365	Pergunnah Azeemabad, Hooda Rooh Khalli and others.	19,434 8 1½	.....	Excluding shares separated under section 10 of Act XI of 1859 and under section 70, Act VII (B.C.) of 1876, the residuary share paying a revenue of Rs. 10,055-1-6.	Aupoorba Coomari Dassi and others.	10,055 1 6	.....	135 2 7½
388	Pergunnah Balia, mouza Molowapur and others.	8,327 4 6	.....	11a. 12g. 3kr. 1kt., residuary share.	Bankey Behary Mondle and others.	5,473 7 2½	.....	186 8 8
389	Pergunnah Balia, mouza Sontoshpur and others.	9,434 9 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Ditto ...	5,201 4 7½	.....	138 7 2
391	Pergunnah Mooragacha, mouza Gomookhi and others.	5,538 8 6	.....	8a. 9g. 3kr. 2kt. residuary share.	Ditto ...	3,250 15 9½	.....	49 13 6
394	Pergunnah Azeemabad, mouza Kusarepur and others.	7,018 12 11	.....	10a. 10g. 1kr. 1kt. residuary share.	Saroda Dassi and others.	4,672 8 11½	.....	47 1 4
395	Pergunnah Azeemabad, taruff Molowapur and others.	14,057 13 11	Whole estate.	.....	Kailash Chundra Mondle and others.	.....	2,340 3 5	.....
397	Pergunnah Magura, mouza Kallynagur and others.	943 14 4	.....	14a. residuary share ..	Chundra Coomar Mondle and others.	625 14 6½	.....	165 4 7½
398	Pergunnah Magura, mouza Makhallia and others.	741 11 5	.....	13a. 12g. share ...	Ditto ...	633 15 5½	.....	87 5 4
401	Pergunnah Azeemabad, Hooda Ramkistopur and others.	8,941 9 7	.....	10a. 10g. 1kr. 1kt. residuary share.	Saroda Dassi and others.	5,877 3 10	.....	69 11 4½
403	Pergunnah Azeemabad, taruff Pathorberia and others.	5,143 3 3	.....	15a. 10g. residuary share.	Ditto ...	4,982 7 8	.....	20 11 3
1534	Pergunnah Moyda, taruff Bantra and others.	14,681 6 4	.....	4a. 2kr. 2kt. residuary share.	Seorot Mohini Dassi and others.	3,700 14 9	.....	132 2 11

Alipore, the March 1890. H. HOLMWOOD, Covd. Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 18, Act XI of 1859, that the undermentioned estates in the district of Gya will be put up to sale at the Collector's Office of that district on the 31st March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
177	Sandesha, pergunnah Anchha.	Rs. A. P. 854 6 0	The whole	.....	Khaje Ubaidulah *alias* Nanhe Nawab and others.	... ..	Rs. A. P. 7 0 9	.....	
3314	Basidpur, Kashe Manora, pergunnah Manora.	508 12 0	Do. ...	.....	Sayed Mohammad Aboo Saleh and others.	.....	3 9 0	.....	

Gya Collectorate, the 3rd March 1890. G. A. GRIERSON, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Choitra 1296 (B S), for the kist ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Tuppeh Asimpur, hissa 8a. 19g.	2,431 4 4½	.....	Joint share, 6a. 10g. 3k. 1½ 10.	Asmat Ali Khan Choudhury and others.	917 7 6½	.....	6 10 10
1416	Taluq Bancha Ram Bosu, hissa 8a., pergunnah Bozergomedpur.	1,550 5 3	.....	3a. under separate account.	Dinabandhu Sen	290 5 10½	.....	45 6 4½
1487	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Darpa Narayan Roy, and Mritunjaya Mukherjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½kt. Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½	.....	24 12 1
1548	Taluq Mohammad Hamsa, pergunnah Bozergomedpur.	1,159 3 8	.....	8a. Ijmali share ..	Grish Chandra Mukhapadhyaya and others.	579 9 10	.....	28 4 11
1578	Panioty Alexander taluq, pergunnah Bozergomedpur.	4,853 12 0½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	604 3 8½	.....	113 2 11½
1185	Radha Krishna, Haranand Roy, and Kalidas Siddhanta taluq, pergunnah Bozergomedpur.	24,096 10 10	.....	5a. 14½g. 1½k. Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	.....	43 15 1½
1628	Ramna Bamna Jear Mohammad Safi taluq, pergunnah Bozergomedpur.	19,487 10 8	.....	8a. 15½g. 19-15-6½-1. Ijmali share.	Golam Asad Choudhuri and others.	10,676 12 1	.....	2,1?9 1 7
1633	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	257 12 2½	.....	51 13 5½
1633	Ditto ditto ...	2,062 2 11½	.....	3a. under separate account.	Taramani Debya ...	386 10 7	.....	78 6 2
1751	Radha Kanta Sen taluq, pergunnah Chandradwip.	906 10 8	.....	18a. Ijmali share ...	Kali Mohan Mohinta and others.	453 5 4	.....	2 13 9½
1704	Pergunnah Dakhin Shahabazpur, 3a. 14g. 1kt. share.	8,543 6 8	Whole estate.	.....	Mr. Alexander Toms, executor of estate J. P. Wise and others.	... .	5,332 10 8½	.....
1916	Haveli Selimabad tappeh, hissa 10g.	1,045 7 9½	.....	5a. 10g. Ijmali share	Bama Sundari Gupta and others.	359 5 5½	.....	72 1 11½
1916	Ditto ditto ..	1,045 7 9½	.....	6a. 15g. share under separate account.	Kailash Chandra Sen Majumdar and others.	441 1 8½	.....	89 13 0½
3255	Pergunnah Ratandi Kalikapur, hissa 2a.	3,154 11 5	.....	7a. 6½g. 2kts. Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,445 14 5	.....	403 9 7
3257	Pergunnah Ratandi Kalikapur, hissa 4a.	6,309 6 10	.....	10g. Ijmali share ...	Jagadiswari Debya ...	197 2 6	.....	67 5 5
3258	Ditto ditto ...	6,309 6 10	.....	6½g. 2kts. Ijmali share	Ditto ..	151 7 4	.....	43 15 11
4546	Padma *alias* Ramjanpur, pergunnah Kashimpur Silapatti.	5,383 0 0	Whole estate.	.....	Abinash Chandra Ghosh and others.	... .	421 8 0	.....
4550	Kukua Khag Dom, Domingo Manual, Debiya, Braja Mohan Sen, Durga Mohan Das, Mussammat Krishna Mohini Dast taluq, pergunnah Bozergomedpur.	9,796 0 0	Ditto ..	.. ...	Jagadeswari Debya and others.	.....	For 1898-99 3,269 4 4, 1889, kist September 158 0 0, 1890, kist January 1,824 0 0	.....
							2,646 4 4	
4757	Madanpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ...	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others.		371 10 6	....
4897	Tukhali, pergunnah Chandradwip.	533 14 3	.....	10a. 5g. Ijmali share	Nistarini and others	342 6 4	.....	33 0 5
4897	Ditto ditto ...	533 14 3	.....	1a. 15g. share under separate account.	Tarini Charan Somoddar.	58 6 4	.....	5 7 6
5008	Chak Barguna, Haola No. 16.	668 0 0	Haoladari right of the whole Haola.	.. ...	Ramjan Haoladar and others.	..	167 0 0	. ..
5193	Ramdeb Datta taluq, mouzah Barahipur, pergunnah Gopalpur Mirjanagar.	699 0 0	Whole estate.	.. .	Jearuddin Haoladar and others.		0 10 0	. ..
5811	Kumara Chur, hissa 18a. 18½g. 1kt., pergunnah Uttar Shahabazpur	1,169 0 0	.....	3a. 8g. 2kt. 11½til. Ijmali share.	Durga Prosonna Roy and others.	239 3 0	.....	178 0 1
5228	Chhota Lumchi Dhali Chur.	1,933 0 0	.....	2a. 8½g. 1kt. 2adhar. Ijmali share.	Mr. A. Toms, executor of estate of J. P. Wise and others.	262 11 7	.....	107 7 0
6449	Tappeh Sultanabad, hissa 7½g., Asimanneesa Khatun and others.	548 1 4	Whole estate.	.....	Moulvie Abdul Wased and others.	.....	5 10 4	...

Backergunge Collectorate, the 15th February 1890. PROMO CHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Furreedpore will be put up for sale at the Collector's Office of that district on the 25th March 1890, corresponding to 13th Choitra 1296 (B. S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
249	Panchashasari, pergunnah Chandpratap.	744 0 0	Whole ...	.....	Iswar Chandra Saha and others.	.....	180 0 0	.....
284	Panchashasari, pergunnah Sahajapur.	1,521 0 0	Do.	.....	Jadub Chandra Bagchi and others.	.....	300 11 0	.....
3655	Taluq Rameswar Pal Choudhury, pergunnah Nasarat Shahi.	2,559 13 8	.....	Hissa 4 annas ...	Uma Prosonno Pal Choudhury and others.	639 15 0	.....	61 11 6
3870	Taluq Ram Prosad Rai, pergunnah Kharagpur.	534 12 9½	Whole ...	.....	Abhoy Coomer Rai and others.	.....	27 15 8½	.....
4004	Taluq Kali Sanker Sen, pergunnah Rajnagore.	1,140 4 3½	Do. ...	.....	Kumadini Kant Barujya Choudhuri and others.	.....	128 5 11	.....
4028	Zemindari Basudev Rai, pergunnah Rajnagore.	4,119 4 9½	.....	Hissa 10 annas excepting the specific share bearing a revenue of Rs. 03-1.	Soshi Mohan Pal Choudhuri and others.	2,574 9 9½	.....	816 5 10
4028	Ditto ditto ...	4,119 4 9½	.....	Hissa 6 annas, ditto.	Gopi Mohan Rai Choudhuri and others.	1,481 10 0	.....	185 13 6
6220	Hissa Nilmoni Sen, pergunnah Rajnagore.	597 12 3	Whole ...	.....	Raj Coomer Pal and others.	.....	82 8 7½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa 7½ annas ..	Raj Coomer Pal and Mohima Chandra Pal.	280 3 1½	.....	74 9 2½
6220	Ditto ditto ...	597 12 3	Whole ...	.....	Haro Lal Pal and others	.....	5 7 4½	.....
6220	Ditto ditto ...	597 12 3	.....	Hissa ½ annas ...	Haro Lal Pal ..	18 11 0	.....	4 14 11½
6305	Gazlai char, appertaining to char Madan Sankar.	670 12 0	Whole .	.....	Kripa Moyee Debya, Poorna Chandra Bandopadhya and others.	.....	11 7 3	.....

Furreedpore Collectorate, the 15th February 1890. PURNO CHANDRA RAI, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fasli, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
261	Ibraheempoor, pergunnah Brail.	535 0 9	.....	12a. 5g. 1kr, 1k. ...	Baisakhi Lall and others.	410 2 9	.....	51 4 0
907	Akhta, pergunnah Babra Chumparun.	1,173 5 9		3a. 12g. 2c. 2k. 12r. ...	Babu Salookat Deo Narayan.	266 8 1	.....	141 8 0½
921	Saaidpoor Dowlat, pergunnah ditto.	4,450 12 3	.....	8a. 1g. 1k. 1d. .	Rajcoomar Babu, Deo Nunden Singh and others.	2,240 13 2	.....	113 8 6½
296	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a, 1c. 1d. .. .	Babu Shimbhoo Pershad, Chundika Pershad and others.	1,042 14 5	.....	449 3 11½
1099	Maksoodpoor Karriah, pergunnah ditto.	1,067 11 9	..	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others.	483 13 1	... ..	25 1 9½
3494	Bidupoor, pergunnah Hajipoor.	1,707 3 3	The whole estate.	.. ... .	Ramkishun Panday ..	1,707 3 3	150 12 0	.....
3528	Joorawanpoor, pergunnah ditto.	719 10 7	.... .	10g. 3c. 2k. 5r.	Harbuns Singh ..	37 7 8	.. ..	6 0 8
3528	Ditto	719 10 7	.....	8g. 3c 3r. ...	Deo Narayan Singh ...	19 11 0	.....	3 7 5
3528	Ditto	719 10 7	. ...	19g. 3c 2k. 2d. 15r. ...	Patul Kuer	45 0 0	. .	4 11 11
3528	Ditto	717 10 7	.....	2a. 14g. 1k. 5r.	Upnet Narayan ...	121 10 3		17 8 6
3639	Maniarpoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,303 5 11	295 1 4	.....
5102	Sharifpoor, pergunnah Nanpoor	506 9 1	.. ...	5a 6g. 2c. 2k.	Sher Bahadur Singh and others.	337 12 8	.....	20 14 5
9462	Erezee Nowberrar-Bungra, pergunnah Gudah Sand.	865 5 0	.	1a. 6g. 2c. 2k.	Mangul Pershad ...	73 2 2	.. .	9 0 4
9462	Ditto	865 5 0	... .	2a. 13g. 1c. 1k. 1d. ..	Debi Dutt Singh ..	144 5 4	.. ...	8 0 4
9462	Ditto	865 5 0	...	5a. 6g. 2c 1k. 2d.	Raohh Pal Singh .	284 7 0	... ..	0 1 4
9462	Ditto	865 5 0	...	6a. 13g. 1c. 1k.	Braham Deo Narayan Singh.	360 6 6	... .	30 0 6
9894	Raja Pakurchakla, Gurjowl, pergunnah Bisarah.	968 2 8	The whole estate.	... .	Nawnidh Lall and others.	998 2 8	62 6 0	.....

Mozufferpore Collectorate, the 15th February 1890. E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Hooghly will be put up to public and unreserved sale at the Collector's office of that district on the 24th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
2	Mukoondopore, pergunnah Chowmahs.	Rs. A. P. 14,550 2 9	The whole estate.	.....	Rajindra Narain Nundy and others.	Rs. A. P. ...	Rs. A. P. 450 9 11	Rs. A. P. ...
10	Radhakantobati, pergunnah Pandooa.	624 11 11	...	The entire estate except the share of which separate account has been opened.	Sreehurry Nundy and others.	590 13 11	...	60 6 6
11	Chhalalpore, pergunnah Pandooa.	707 6 2	...	Ditto ditto	Aisa Khaton *alias* Abadonnessa Bibee and others.	235 13 2	...	25 11 7
26	Malikapore, pergunnah Baligari.	10,595 3 8	...	Ditto ditto	Nil Komul Mitter and others.	4,507 14 8	...	1,683 7 4
49	Hatisala, pergunnah Chowmahs.	11,509 5 0	...	Ditto ditto	Raja Peary Mohun Mookerjee and others.	7,712 14 0	...	1,009 10 0
54	Thaipara pergunnah Pandooa.	1,066 1 0	...	7*a.* 19*g.* 1*k.* 8*ll.* 6½ *kag.* share of seventeen mouzahs, "Thaipara and others" of which separate account has been opened and marked A.	Woomadotonnessa Bibee.	476 0 0	...	8 0 0
56	Champahati, pergunnah Pandooa.	606 7 2	...	The entire estate except the share of which separate account has been opened.	Bidhoomoni Dassee and others.	598 8 6½	...	170 0 0
66	Nundingram, pergunnah Pandooa.	1,975 9 0	...	8 Annas share of the estate of which separate account has been opened and marked A.	Kesub Chandra Chatterjee.	987 13 0	...	30 0 0
117	Rajhat, pergunnah Khosalpore.	726 0 3	...	The entire estate except the share of which separate account has been opened.	Joobunkristo Gossain and others.	265 11 3	...	35 11 5
159	Chatra Baday, pergunnah Boro.	740 9 5	...	Ditto ditto	Bhola Nath Mitter and others.	43 15 1	...	0 1 10
159	Ditto ditto	740 9 5	...	2*a.* 13*g.* share of the estate of which separate account has been opened and marked A.	Chandra Kanto Mookerjee and others.	145 9 4	...	4 10 8
191	Haripore, pergunnah Chowmahs.	851 3 2	...	The entire estate except the share of which separate account has been opened.	Suthdoyal Banerjee and others.	728 2 2	...	87 4 10
2074	Jeerut Chur, pergunnah Hatkanda.	532 5 6	The whole estate.	.....	Joy Kristo Mookerjee	...	266 0 0	...
3621	Digra, pergunnah Boro.	530 3 5	The whole estate.	.....	Ramdoyal Banerjee ..	...	198 0 0	..
3641	Khar Sarai, pergunnah Boro.	1,311 10 0	...	The entire estate except the share of which separate account has been opened.	Ramdoyal Banerjee ...	655 13 6	...	163 8 0
3994	Ramkristopore pergunnah Boro.	563 14 9	...	8 Annas share of the estate of which separate account has been opened and marked A.	Ranee Surnomoyee Dassee.	281 15 0	...	103 0 0
4085	Sheikpore, pergunnah Bairs.	10,443 11 0	...	The entire estate except the share of which separate account has been opened.	Girish Chundra Roy and others.	1,740 3 0	..	648 7 2

Hooghly Collectorate, the 14th February 1890. MAHOMED ISRAIL, for Collector of Hooghly.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Satkanea Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad.

Serial No.	Nos. of tenures on Register No. 1.	Names of tenures and their situations.	Annual rental		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cesses.	Rent.	Cesses.	Total.	
1	6 1823	*Thanna Satkanea, mouzah Napora.* Taluk Raj Kumar Roy and Broteshwari, baboit taluk Bisheshwari Naba Kumar, No. 541–468.	Rs. A. P. 1,017 2 0	Rs. A. P. 44 8 6	Rs. A. P. 310 0 0	Rs. A. P. 13 7 0	Rs. A. P. 323 7 0	The entire taluk will be sold.
2	20 438	*Thanna Satkanea, mouzah Chambal.* Taluk Tajannissa Chowdhuranee ...	1,193 4 10	176 13 6	745 4 10	110 0 6	855 11 4	

C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
423	Payerpore, pergunnah Futtehjungpore.	3,414 9 6	.....	5a. 10g. 2k. 17½t sl share bearing No. 423-0.	Kala Chand Biswas and others.	1,175 6 11	.....	1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole estate.	.....	Messrs. Robert Watson and Co. and others.	.....	7,881 6 0	.....
815	Ditto ditto ...	1,160 5 0	Ditto ...	.....	Sreekrishna Bhowmik and others.	.....	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, and under Act VII (B.C.) of 1868, that the undermentioned estates or shares of estates in the district of Mymensingh will be put up for sale at the Collector's Office of that district on the 25th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
9	Zemindari pergunnah Attiah, hissa 1½ annas.	6,729 2 0	.....	Ejmali share exclusive of the separate accounts opened under sections 10 and 11 of Act 11 of 1859.	Nazamon Nessa Khanum Chowdhurain and others.	2,418 6 0	.....	36 6 6
70	Zemindari pergunnah Jusuahaye.	10,325 14 0	.....	Separate share 3 annas 5 gds. 3 cr. 6 dips.	L. M. Pogose, L. G. Mary Pogose and others.	1,503 12 0	.....	372 15 5
96	Zemindari hissa 4½ annas with bejabeta taluq, pergunnah Nasirujial.	7,197 10 0	.....	Separate share 11 gds. 2cr. 2 kg. 10 til. of Kismat Singdha.	Sheik Hasari and others.	1 10 0	.....	1 4 6
96	Ditto ditto ...	7,197 10 0	.....	1das. of taluq Dip Chandra Rai.	Mohim Chandra Roy Chowdhuri.	204 5 0	.....	70 0 0
96	Ditto ditto ...	7,197 10 0	.....	12½gds. share of the estate.	Mahamed Mafidar Rohoman.	230 12 0	.....	79 13 6
121	Thaneswar Badia, pergunnah Nasirujial.	729 10 0	.....	14ans. 19gds. 2cr. 2kg. ejmali share.	Apisullah Bhuya and others.	771 2 0	.....	275 4 0
124	Payandabeg, hissa 13 as. 6 gds. 2 cr. 2 kranta tuppeh Hasradi.	1,796 2 0	.....	7½as. share of Kismat Patua Bhanga, 6½as. share of Nagor Hasradi, 2as. of Sir Mausa, 8 gds. of chakley Maha atpur and 16as. of other mouzas.	Upendra Kishore Roy Chowdury and others.	858 15 0	.....	94 9 6
137	Zemindari pergunnah Susung.	1,988 4 0	.....	15gds. 1cr. 3kranta and 16til share of the estate.	Joy Nath Roy ...	96 1 6	.....	33 5 6
	Ditto ditto ...	1,988 4 0	...	6gds. 1cr. 2kranta 1 til share of the estate.	Biswesvari Debia and others.	82 5 0	.....	29 1 6
144	Zemindari pergunnah Sherepur, hissa 1a. 6g.	2,643 8 0	.....	Joint share exclusive of separate account opened under Act XI of 1859.	Dharani Kanta Chowdhuri and others.	1,614 1 0	.....	3 14 6
144	Ditto ditto ...	2,643 8 0	.....	2a. 14g. 3cr. 3 dips separate share of the estate.	Har Kumar Chowdhuri.	483 3 0	.....	143 9 6
5000	Char Ghugra Kandi, pergunnah Sherepur.	705 15 0	Whole ...	.....	Radha Ballav Chowdhuri and others.	.....	2 0 0	.....
6179	Juar Jamat Char, pergunnah Bardakhat, tuppeh Kurikhayi.	754 8 0	.....	1 anna separate share of the estate.	Ram Keshab Shaha and others.	47 3 0	.....	23 5 0
7503	Taluq Nurunessa Khanum with ejmali mouzah Taratia Digar, tuppeh Ranbhawal.	1,208 0 0	Whole ..	...	Administrator General of Bengal and others.	.....	140 9 6	.....
				Second class.				
5013	Chak Shekchura, Tuppeh Ranbhawal.	511 0 0	.....	15ans. 17g. share of the estate.	Golokc Chandra Bhattacharyya.	306 4 0	.....	136 6 6
5396	Char Jungldi and others, pergunnah Sherepur.	1,230 0 0	Whole ...	.....	Kishori Mohan Chowdhuri and others.	.....	104 12 9	.....

Mymensingh Collectorate, the 14th February 1890. JUGGOBONDHU KHAN, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estates in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
26	Kismat 1*a.* 6*g.* 2*c.* 1*k.* 4*d.*, pergunnah Bardakhat.	Rs. A. P. 13,319 4 9	.....	3*a.* 1½*kara* share.	Srimati Barni Khanam and and others.	Rs. A. P. K. 2,508 0 8 2½	Rs. A. P.	Rs. A. P. K. 1,157 1 7 5 due up to Agrahayan 1296 B.S.	Accounts are separated under section 10 of Act XI of 1859.
26	Ditto ...	13,319 4 9	.....	14*g.* 1*kara* 2 ..... *kt.* share.	Nabin Chandra Das Roy and others.	599 9 2 14½	.....	64 9 5 2 ditto.	Remaining portion that has not been separated.
30	Kismat 3*a.*, pergunnah Choudhagano.	1,360 0 6	.....	4*a.* share ...	Ambika Charan Lashker and others.	340 0 0 17½	.....	46 2 0 12½ ditto.	Ditto ditto.
236	Taluk Ramdhan Majumder, pergunnah Mohabutpur.	1,189 13 10	.....	10*a.* 13*g.* 1*kara* 1*kt.* share.	Alam Rajah *alias* Idhangazi Chowdry and others.	793 3 11 0	.....	92 9 11 0 ditto.	Ditto ditto.
265	Taluk Shahazadi Khanam, pergunnah Narayanpur.	746 10 8	.....	3*a.* 11*g.* 1*kara* 2*kt.* share.	Srimati Shafarunessa Bibi and others.	165 14 9 4	.....	0 6 0 0 ditto.	Ditto ditto.
372	Mouzah Ahamudpur, pergunnah Bardakhat.	1,228 6 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ishan Chandra Roy.	409 7 4 0	.....	139 5 4 0 for kist November 1889.	Ditto ditto.
401	Jowar Bisharah, pergunnah Bardakhat.	3,141 8 0	.....	5*a.* 6*g.* 2*kara* 2*kt.*	Ditto ...	1,047 1 0 0	.....	356 5 8 0 ditto.	Ditto ditto.
455	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,360 0 0	Whole	.....	Golam Moula ...	.....	110 0 0 for kist November 1889.	.....	.....
1925	Chur Nagarerkandi, No. 211, pergunnah Utter Shahapur, resumed under Regulation 2 of 1819.	1,296 10 9	Do. ...	.....	Dr. George Manock and others.	.....	296 3 11 ditto.	.....	Property of individuals settled for 11 years from 1294 to 1304 B.S.
1932	Mouzah Gangercoat, pergunnah Bardakhat.	895 0 0	Do. .	.....	Braja Nath Roychowdry and others.	.....	76 14 5 ditto.	.....	Meadi taluk settled for 17 years from 1288 to 1304 B.S.
1933	Jowar Tinchitta, perrunnah Bardakhat.	663 13 3	Do. ...	.....	Durga Charan Das Majumder and others.	.....	210 5 3 ditto.	.....	Meadi taluk settled for 18 years from 1287 to 1304 B.S.
1933	Mouzah Dalarah Chairpara, pergunnah Bardakhat.	1,451 1 3	Do. ..	.....	Kali Das Bhadra and others.	.....	277 12 0 ditto.	.....	Meadi taluk settled for 14 years from 1291 to 1304 B.S.
1933	Jowar Rasullahad, pergunnah Bardakhat.	3,969 14 11	Do. ...	.....	Kamalakanta Padder and others.	.....	1,364 10 6 ditto.	.....	Meadi taluk settled for 13 years from 1292 to 1304 B.S.
1933	Jowar Daulatpur, tappeh Kurikhal, pergunnah Bardakhat.	1,436 12 0	Do. .	.....	Former owner— Ram Gopal Chakraborty and others. Auction purchaser— Mohesh Chandra Chakravarti. Sale not yet confirmed.	.....	493 14 0 ditto.	.....	Meadi taluk settled for 50 years from 1261 to 1310 B.S.

Tipperah Collectorate, the 15th February 1890. R. T. GREER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates in the district of Moorshedabad will be put up for sale at the Collector's office of that district on 21st March 1890, corresponding with 9th Choitro, Friday, 1296 (B.S.), for arrears of revenue due up to 13th January 1890.

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS.
9	Kismut pergunnah Kasipore, pergunnah Kasipore.	Rs. A. P. 8,074 3 0	... ..	1*a.* 8*g.* 9*kgs.* ...	Srinath Roy Chowdhury, &c.	Rs. A. P. 730 7 0	Rs. A. P.	Rs. A. P. 53 0 4	Of the entire estate, 1*a.* 8*g.* 9*kgs.* share belonging to Srinath Roy Chowdhury, &c., the sudder jumma of which is Rs. 730-7, will be sold.
202	Kismut Huda Barnagar, pergunnah Muraripore.	4,062 13 1 Police 72 2 4 4,134 15 5	.....	6*a.* 19*g.* 2*karas*	Moharanee Brojo Sundari Debya.	2,277 10 11 Police 40 6 0 2,318 2 11	.....	863 8 10 Police 10 14 0 974 6 10	Of the entire estate, joint property (ijmali) of 8*a.* 19*g.* 2*karas* belonging to Brojo Sundari Debya, the sudder jumma of which is Rs. 2,318-2-11 will be sold.
467	Kismut mouzah Syud Kulutia, pergunnah Fatehsinah	570 11 1	Entire mehal.	.....	Syud Fazlel Karim, &c.	.....	15 14 5	.....	
557	Kismut Gunj Jangipore, pergunnah Gonkur.	714 8 11	Ditto ..	.....	Bepin Behari Nath	.....	179 14 10	.....	
1486	North of kismut Jangipore, char Knayenagar, Balikhata and Khiderpore.	538 2 0	Ditto ...	.....	Proprietress and settlement-maker, Rukshmini Barmanya.	.....	Current 396 0 0 Arrear 1,436 9 6 1,832 9 6	.....	The proprietary and settlement rights of the estate from 1st April 1887 up to 31st March 1894 will be sold.

Moorshedabad Collectorate, dated Berhampore, the 13th February 1890. J. G. RITCHIE, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned estates in the district of Midnapur will be put up to public and unreserved sale at the Collector's Office of that district on 25th March 1890, Tuesday, corresponding with Bengali 1296, 13th Chaitro, and Amli 1297, 14th Chaitro, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
41	Pergunnah Khandar, mehal Amra *alias* Bonai (thana Sabung and Midnapur).	Rs. A. P. 1,365 13 2	Entire...	.....	Gopinath Masanto, Nando Lall Masanto and others.	Rs. A. P.	Rs. A. P. 21 15 6	Rs. A. P. .....
46	Pergunnah Khandar, mehal Amonpur (thana Midnapur and Narsingur).	1,356 3 10	.....	9*a*. 12*g*. are of the joint property.	Baboo Kedarnath Bandopadhya, head assistant, on behalf of the minor of Turka estate, Radha Gobindo Pal, and the Collector of Midnapur on behalf of Haripado Masanto under the Court of Wards.	813 11 4	.....	46 13 10 (Minor has share in the estate.)
73	Pergunnah Kelle: Moinachor, mehal Anondopur (thana Sabung).	5,657 4 9	.....	Separate account— *A. g. k.* Anondopur .. 6 0 0 Duborajpur 6 5 0 Madhuhchuk 6 5 0 Kolageehea .. 3 2 2 Masomchuk 3 2 2 Shamsundurpur ... 3 2 2	Srimotya Dassi, Moni Dasi, mother and guardian of Sripoti Charan De, minor.	1,795 3 8	.....	616 9 8
80	Pergunnah Moyna, mehal Ankhuachuk Dakhin *alias* Dakhin Ankhua (thana Sabung).	873 13 6	Entire ...	.....	Khom Chandra Bandopadhya, self and Srimotya Nistarini Debya, mother and guardian of Panchanan and Lalit Mohon Bandopadhya, minors	.....	301 15 6	.....
134	Pergunnah Kelle: Midnapur, mehal Badar, thana Kespur.	906 6 1	Do. ...	.....	Brojo Das Datta	.....	310 8 9	.....
143	Pergunnah Sabung, mehal Bohbulpur (thana Sabung, Panskura).	2,698 3 1	.....	Separate account, 8*a*. 2*g*. 2*k*. share of the mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripati Charan De, minor.	526 15 11	.....	181 0 11
204	Pergunnah Khandar, mehal Barikbar *alias* Bargones (thana Sabung, Midnapur and Narsingur).	3,496 0 3	.....	Joint property— *A. g. k.* Damudar Kismat ... 4 0 0 Barikbar ... 4 0 0 Basdebpur ... 4 0 0 Chowdhry-chuk ... 4 0 0 Holodhorchuk 4 0 0 Mohonnondi-chuk ... 4 0 0 Babon Dolui-chuk ... 4 0 0 Ram Chandra chuk ... 4 0 0 Anondodolui-chuk ... 4 0 0 Jibunchuk ... 4 0 0 Abhiram Bar 4 0 0 Ochubar .. 4 0 0 Damudarchuk 4 0 0 Arjunchuk ... 4 0 0 Kotai... ... 4 0 0 Bishtuchuk 4 0 0 Josoageea .. 4 0 0 Srimontopur 4 0 0 Mawa Kismat 4 0 0 Daos ... 4 0 0 Kakhoaschuk 4 0 0 Medniehukbar 4 0 0 Raghudolui-chuk ... 4 0 0 Khordabad chuk ... 4 0 0 Chuk Basdeb 4 0 0 Jeageea ... 4 0 0 Krorda ... 4 0 0 Biswanath chuk ... 4 0 0 Dordra ... 3 6 1 Dordra chuk Kelle : ... 2 6 1 Lal chuk ... 2 6 1 Salukea ... 2 6 1 Gopal Sing chuk ... 2 6 1	Srimotya Prossono Moyi, Dinabundu Pardi and others.	780 15 6	.....	94 13 9
221	Pergunnah Batitaki, mehal Bural (thana town, Sabung, Narsingur).	1,313 7 5	.....	8*a*. of the joint mehal 8*a*. of the separate account mehal.	Jibun Kristo Ghose ... Administrator-General, Calcutta of the estate of Srikristo Ghose.	606 11 8 606 11 9	....	199 7 7 199 8 1
271	Pergunnah Kelle: Moyna, mehal Borsa *alias* Borsa Ramchuk, (thana Sabung).	2,077 9 5	Entire...	.....	Ramhari Mondul and Sodanand Mondul and others.	.....	534 13 5	.....
328	Pergunnah Egrachor, mehal Bhatda, thana Egra.	3,614 13 4	.....	Joint property— Mouza Tetulea 1, Kolsarang, 2*a*. 7*g*. 5*k*.	Nundo Kumar, Satrughon Acharjya and others.	1,170 13	.....	4 11 6

15½*t*.; Bhatda, 8*a*, 9*g*. 2*k*.; Mirzapur 1 Karokpara 1; Noripur 8*a*; Jhurea 1 mouza; Gopinathpur 1 mouza; Sundurpur 1 mouza, Ke: Kamardeyan 3*a*. 12*g*.; Norohoripur 1 mouza.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
364	Pergunnah Kelle: Moynachor, mehal Chongra Chuk, thana Sabung.	Rs. A. P. 546 15 8	Entire...	.....	Dinabundhu Jana, Kartik Prosad Jana and others.	Rs. A. P.	Rs. A. P. 0 2 4	Rs. A. P. .....
386	Pergunnah Kasijora, mehal Dabnapukur, thana Panskura.	618 13 3 with police.	Do. ...	.....	Nemaichand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	.....	129 0 3 with police.	.....
387	Pergunnah Shahapur, mehal Dingel, thana Debra.	2,906 3 1	.....	8a. share of the joint mehal.	Jibun Kristo Ghose ...	1,453 1 7	.....	484 5 1
				No. 1. 8a. of the separate account.	Administrator-General, Calcutta, estate Srikristo Ghose,	1,453 1 6	.....	484 2 8
391	Pergunnah Kedar Kund, mehal Duyan (thana Debra).	1,135 8 3	Entire...	.....	Sridhorcharan Nundi ...	.....	390 8 3	.....
504	Pergunnah Kismat Kasijora, mehal Gopalnagur, (thana Panskura).	1,511 0 9	.....	10a. 13g. 1k. 1kr. of the joint mehal.	Doyal Chondra Jana, Bisambur Jana and others.	1,007 5 10	.....	85 14 0
563	Pergunnah Gagnapur, mehal Ghosepur, thana Panskura.	1,206 1 8	.....	8a, share of the entire joint estate.	Joint share Jibun Kristo Ghose.	604 0 10	.....	197 1 10
				No. 1, separate account 8a. share.	Administrator-General, Calcutta, estate Srikrishna Ghose.	604 0 10	.....	197 1 10
600	Pergunnah Sabung, mehal Horihurpur, thana Sabung.	2,427 11 0	.....	9a. 15g. share of the entire joint mehal.	Nemaichand Dey ...	1,479 5 11	.....	507 14 1
				No. 1, separate account, 6a. 5g. share of the entire mehal.	Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan Dey, minor.	948 5 1	.....	325 4 1
627	Pergunnah Chetcoa, mehal Horirampur, thana Daspur.	25,920 3 9 with police.	.....	8a. share of the mehal.	Joint share Nobolai Khan, Koralipodo Khan and others.	12,960 1 11 with police.	.....	4,895 7 1 with police.
639	Pergunnah Moynachor, mehal Ankhpurbo (thana Tamluk).	1,001 7 2	.....	8a, share of the joint mehal.	Dina Nath Bhuttacharjya	500 11 7	.....	173 1 4
643	Pergunnah Amarsi, mehal Jadubar *alias* Nayabasan, thana Pataspur.	907 12 3	.....	9a. 11g. 3k. 2kag. share of the entire joint mehal.	Premchand, Ishan Chandra Bera and others.	543 4 5	.....	16 6 9
651	Pergunnah Kelle: Kasijora, mehal Janabar, thana Panskura.	1,283 9	Entire...	.....	Kamda Charan Pal, Aiman Nessa Bibi and others.	.....	1 1 3	.....
693	Pergunnah Taruf Jamna, mehal Jamna, thana Sabung.	1,595 14 3	.....	6a. 1g. 3k. 2 kag share of the entire mehal.	Joint share Nemai Charan Dey.	607 14 4	.....	211 3 4
740	Pergunnah Sabung, mehal Khelnachota, thana Sabung.	715 5 10	Entire...	.....	Nemai Chand De and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	149 7 10	.....
804	Pergunnah Kasijora, mehal Kolagechya (thana Panskura Tamluk).	1,149 8 7	.....	Joint property 12a. share of mouza Kellageohya.	Chandhori Nando ...	780 2 10	.....	268 14 10
810	Pergunnah Kelle: Kasijora, mehal Kesapat, thana Panskura.	800 6 2	Entire...	.....	Brojo Das Dutta ...	.....	275 3 3	.....
841	Pergunnah Moynachor, mehal Kripanandopur, thana Sabung.	673 8 7	Do. ...	.....	Natabur Das Adhikary, Godadhur Das Adhikary and others.	.....	230 15 11	.....
869	Pergunnah Moynachor, mehal Kheral, thana Sabung.	5,951 4 3	... ..	14a. 8g. 2k. share of the joint mehal.	Dinabundha Nandi, Nemai Chand De and others.	3,370 1 5	.....	1,076 11 11
				No. 1, separate account, 1a. 11g. 1k. share of the entire mehal.	Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	581 2 10	.....	199 4 10
1034	Pergunnah Kasijora, mehal Nohna Kuwar Chuk, thana Panskura.	1,173 13 0 with police.	Entire...	.....	Nemai Chand Dey and Srimotya Dassi Moni Dassi, mother and guardian of Sripoti Charan De, minor.	.....	402 9 9	.....
1046	Pergunnah Sabung, mehal Nandobar, thana Sabung.	667 9 11	Do. ...	.....	Rajiblochon, Modhusudhon Sabud and others.	.....	1 9 11	.....
1118	Pergunnah Shahapur, mehal Poponhori Choron *alias* Papon (thana Debra).	571 1 6 with police.	Do. ...	.....	Sridhor Charan Nandi ...	.....	196 15 5 with police.	.....
1150	Pergunnah Kismat Kasijora, mehal Rataica (thana Panskura).	1,135 12 11 with police.	Do. ...	.....	Ditto ditto ...	.....	389 13 11 with police.	.....
1260	Pergunnah Moynachor, mehal Ramchondropur, thana Sabung.	1,300 13 9	.....	No. 1, separate account, 10a. 13g. 1k. 1kr. share of the mehal.	Brojo Das Dutta ...	867 3 10	.....	298 15 8
1281	Pergunnah Kasijora, mehal Sridhorbosan *alias* Dhuleara, thana Panskura.	1,450 13 6 with police.	.....	Separate account, mouza Sridhorbosan 1, mouza Dhuleara 8a.	Rishi Kesh Bose ...	893 13 8 with police.	.....	250 3 8 with police.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1436	Pergunnah Uttor Behar, mehal Shahrdshat *alias* Shahrda, thana Datoon.	Rs. A. P. 3,171 4 8	.....	8*a.* 13*g.* share of the joint mehal.	Gopinath, Nando Lall Masanto and others.	Rs. A. P. 1,173 13 7	Rs. A. P.	Rs. A. P. 29 11 4
1500	Pergunnah Kanjoia, mehal Uttorusutpur, thana Panskura and Tamluk.	3,505 3 1	.....	No. 8, separate account, 8*a.* share of mouza Uttor usutpur.	Nemai Chand Dey and Dasi Moni Dasi, mother and guardian of Sripoti Charan De, minor.	640 0 0	.....	154 1 0
	Temporarily-settled estate.							
46	Pergunnah Pataspur, mehal Dehat Gokulpur.	23,523 15 3	Entire...	.....	Gopendro Nondon Das Mohapatro.	.....	307 15 8	.....
	Jalpai mehal.							
18	Pergunnah Taruf Biswan, mehal Goraher, thana Khadgree.	814 0 0	Do. ...	.....	Proprietor Government tenant Durga Prosad Mirdha.	.....	279 13 0	...

Dated Midnapur, the 21st February 1890. G. W. PLACE, for Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the undermentioned mehals and tenures borne in the towji of the district of Noakholly will be put up to public and unreserved sale at the Collector's office of that district, on Wednesday, the 26th March 1890 corresponding with 14th Choitra 1296 B S., for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1661	No. 14, Gayer makarari meadi (temporary) howla Abdul Rahaman in chur Shulukya, *alias* Sunya, chur pergunnah Bhoolooah.	Rs. A. P. 565 15 11	Whole ...	.....	Wazuddin Maghi ...	Rs. A. P.	Rs. A. P. 241 11 6	Rs. A. P. .....
1662	No. 80, Gayer makarari meadi (temporary) howla Azmatullah, Shubal Chandra Guha in chur Magdhara, pergunnah Sundip.	705 14 7	Do. ...	.....	Uma Charan Guha ..	....	26 0 0	.....
1671	No. 1, Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, Gayer makarari meadi (temporary) abadkari howla Anwaruddin, Kali Das, Modan vath in chur Gazi, pergunnah Jazira.	1,649 5 9	Do. ...	.....	Isapali Maghi ...	... ..	670 4 6	.....
1671	Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, No. 3, Gayer makarari meadi howla Mohammed Manwar, Mohammed Kalim, Akramaddin, in chur Gazi, pergunnah Jazira.	1,383 9 0	Do. .	..	Srimati Halimennessa Chowdhurany.	.....	519 10 6	.....
1671	No. 45, Gayer makarari meadi howla Sarfaddin, Kalimaddin, Sua Gazi, Kachua No. 279 Dakhal in chur Gazi, pergunnah Jazira.	555 9 7	Do. .	.....	Azmaddin Patwari, Anurzan Bibi, mother and guardian of Ammullah and Mofsil, minors, Chuny, Moti Meah, Kachim Karimunnessa, Munsarah, Samadali, Tasamaddin, Umedali, Manoo Meah, Abdul Meah, Fasarally, Halimennessa, Kadirbakah, anbakah Amsad, Ambaddy Monharali.	.....	103 2 1	.....

Noakhally Collectorate, the 16th February 1890 C. R MARRIOTT, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned mehal, borne in the towji of the district of Noakholly, will be put up to public and unreserved sale at the Collector's Office of that district on Wednesday, the 26th March 1890, corresponding with 14th Chaitra 1296 B S., for arrears of revenue recoverable under the law in force due for kist 28th September 1889:—

	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal, and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate is to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
45	Kishmut Mohendra Narayan, pergunnah Shundeep.	Rs. A. P. 637 1 11	Whole ..	.....	Chandra Mohan Nandy.	Rs. A. P.	Rs. A. P. 109 7 3	Rs. A. P. .....

Noakholly Collectorate, the 16th February 1890. M. M. CHUCKERBUTTY, Dy Collr., for Offg Collr.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Bhagulpore will be put up for sale at the Collector's Office of that district on Monday, the 31st March 1890, corresponding with the 25th day of Chaitra 1297F.S., for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Touji No	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Rampur Taluqa, pergunnah Bhagulpur, thana Sultangunj	1,240 10 0	.....	The residue ijmali share of which separate account has not been opened.	Nand Lal Pandy and others.	351 15 0	.....	8 9 0
95	Mandar Tappah, pergunnah Bhagulpur, thana Banka.	1,706 12 0	.....	16g. mouzah Pair asli, 16g Jhajha, 16g. Makazar, 16g. Rafatpur.	Tarni Pershad Miseer, &c.	5 0 0	.....	2 8 0
				The residue ijmali share of which separate account has not been opened.	Khedan Lall, &c. ..	227 12 0	.....	97 0 0
334	Bisbitti, pergunnah Chye, thana Kishengunj.	589 6 0	.....	1a. 10g. share	Ganga Ram Kumar, &c.	55 5 0	.....	6 14 0
335	Bikrampur Chakrami, taluqa Nisf, pergunnah Chye, thana Bihpur.	7,711 15 0	.....	Mouzah Jamaluddinpore 10g., Bishenpur Gopal Pakwajpur 5g., Bishenpur Amri 3g. 1a. 1k., Syad Nuruddinpur 3g. 1a. 0k. 1d., Bannudat Jalkar, Desra Jalkar, Ganga Charan Jalkar, Parsuram Jalkar, Kali Das Jalkar, 2g 2c.	Dilsukh Ram Mandwari.	23 2 0	.....	2 15 0
				The residue ijmali share of which separate account has not been opened.	Apachh Kumar, &c....	610 0 0	.....	1,369 13 0
379	Masum Nawas Kismut, pergunnah Chye, thana Kishengunj.	703 15 0	.....	The residue ijmali share of which separate account has not been opened.	Singheswar Pershad, &c.	352 0 0	.....	132 0 0
384	Nagarparah Kismut, pergunnah Chye, thana Bihpur.	877 15 0	Whole	.....	Rajbati Kumri ...	.....	109 4 0	.....
386	Ditto di to ...	645 11 0	.....	5a. 4p share	Rajbuti Kumri ...	215 4 0	.....	26 2 9
				The residue ijmali share of which separate account has not been opened.	Santokhi Rai, &c. ...	215 3 0	.....	0 4 0
460	Bhagwanpur taluqa, pergunnah Nesankhpur Kurah, thana Supaul.	1,263 1 0	.....	Ditto ditto ...	Radha Singh, &c. ...	271 5 0	.....	169 9 0*
471	Gangapur Rajnigote taluqa, pergunnah Nesankhpur Kurah, thana Madhepurah.	11,254 2 0	.....	8a. share	Rakhal Rai	2,109 5 0	.....	791 0 0
				6p. share	Takriman Nissa ...	351 9 0	.....	131 13 9
472	Sarowni Kalan, pergunnah Nesankhpur Kurah, thana Kesheng[illegible].	851 3 0	.....	2a. mouza Sarowni Kalan .	Lakhbuti Kumri ...	77 8 0	.....	29 1 0
				The residue ijmali share of which separate account has not been opened.	Jagarnath Ram, &c....	542 9 0	.....	203 7 9
532	Thalha, pergunnah Naraidigar, thana Supole.	1,034 3 0	.....	4g. 2c. 2k. 13sr., mouzah Thalha ..	Ghansham Singh Jha	3 5 0	.....	1 4 0
				The residue ijmali share of which separate account has not been opened.	Ditto ditto ...	93 4 0	.....	35 5 0
558	Paridpur, pergunnah Chhal, thana Kotwali.	663 11 0	Whole..	.....	Rajbuti Kumri ...	.....	293 8 0	.....
3193	Maheshpur taluqa, Banahrah kismut, pergunnah Bhagulpur, thana Amarpur.	1,534 11 0	.....	The residue ijmali share of which separate account has not been opened.	Gajadhar Pershad urf Gyadin.	767 6 0	.....	192 2 0
3851	Kalyanpur, pergunnah Dhaphar, thana Pratapgunj.	913 5 0	.....	Ditto ditto ...	Khub Lal Sahu, &c....	627 14 0	.....	235 6 0
3863	Bhawanipore, pergunnah Dhaphar, thana Pratabgunj.	1,209 0 0	.....	Ditto ditto ...	Qamaruddin	144 7 0	.....	57 5 0
4166	Supole taluqa qismat, pergunnah Malmigopal, thana Supole.	503 13 0	Whole...	.....	Kishor Narain Singh, &c.	.....	0 4 0	.....

* This was sold on 16th September 1889, but appeal against this sale is pending.

Bhagulpur Collectorate, the 27th February 1890.

A. A. WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Cuttack will be put up for sale at the Collector's Office of that district on the 7th April 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors.	If a share is to be sold, the sudder jumma of such share or shares.	If the whole estate is to be sold, the arrears due from it.	If a share is to be sold, the arrears due from such share or shares.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Kismut talook Kalimegha, pergunnah Jajpoor.	1,198 7 4	.....	Out of the estate kismut, 11s. 9p 15k 2b. 10g. share of Ananta Panda and others.	Ananta Panda, Kanahai Panda and others.	891 2 0	.....	9 0 5
656	Kismut mouzah Nagaspur, pergunnah Subang.	928 13 7½	.....	Out of the estate kismut, 15s 2p. 9k. 2b. 12g. 3kaurs share of Chaudhari Juggernath Santra Mahapater and others.	Kripa Sindhu Chaudhari and others.	882 11 0	.....	1 5 7½
742	Kismut mouzah Barahipur, pergunnah Sughunda.	531 4 10	Whole estate	.....	Gobind Chandra Paharaj and others.	..	16 7 7	.....
744	Talook Manda, pergunnah Sughunda.	1,615 14 1	Ditto ...	.....	Jugernath Santra Mohapater and others.	.....	28 6 2	.....
1328	Talook Upper Barnan, pergunnah Barnan.	590 4 9	Ditto ..	.....	Daya Nidhi Dubai and others.	.....	20 7 10	.....
1961	Kismut mouzah Aitpur, pergunnah Kodinda.	655 10 6	.....	Out of the estate kismut 14 annas share of Radha Madhob Santra and others.	Radha Madhob Santra and others.	573 11 2	.....	81 2 8
2034	Kismut talook Rajhungsa, pergunnah Kodinda.	1,695 3 10	Whole estate	..	Radha Madhob Santra, Hurra Kristo Mohanty and others.	.....	211 14 3	.....
2071	Talook Sree Sanderpur, pergunnah Silo.	930 2 0½	..	Out of the estate kismut 13 annas share of Kasi Nath Dass and Surja Mani Dia and others.	Syed Abdul Kader and others.	706 5 7½	.....	20 7 4½
2492	Talook Bisnabar, pergunnah Sakhrabad.	2,686 1 11	Whole estate.	.....	Radha Madhob Santra and others.	.....	250 11 8½	...
2737	Mouzah Kantisal, pergunnah Kata.	505 10 9	Ditto	.....	Kanhoo Charan Chandhary and others.	.....	3 5 4	.....
35 5	Kismut mouzah Narigun, pergunnah Kata.	729 14 7	Ditto	....	Janardan Mahapater and others.	.. ..	1 14 11	.....
3944	Talook Balabhadra, pergunnah Tikan.	1,106 13 4½	Ditto ...	.....	Chaudharanee Madha Dei, grandmother and guardian of Madan Mohan Das, minor.	.....	191 13 6½	.....

Cuttack Collectorate, the 20th February 1890. A. C. SEN, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Burdwan, will be put up for sale at the Collector's Office of that district on 27th March 1890, for arrears of revenue and other demands, due on the 12th January 1890, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
21	Mahata, pergunnah Monoharshahy.	11,686 5 7	...	The parent estate, the sudder jumma of which is Rs. 10,110-6-4, will be sold. The separate account share of the estate, the sudder jumma of which is Rs. 1,375-15-3, will not be sold.	Chandkumari Debi and others.	10,310 6 4	.. ..	Rs. 239 12 7
59	Mohunpur, pergunnah Bagha.	1,613 7 11	The whole estate.	.. ..	Nabakristo Mukhopadhya, guardian on behalf of minor Upendra Narain Mukhopadhya.	.....	536 5 6	.....
62	Palsona, pergunnah Dhima.	7,400 11 11	.....	The parent estate, the sudder jumma of which is Rs. 3,560-10-1, will be sold. The separate account share, the sudder jumma of which is Rs. 3,840-1-10, will not be sold	Harak Chand Golcha and others.	3,560 11 1	.....	28 6 2
5174	Saikuni, pergunnah Burdwan.	1,693 9 5	.....	The parent estate, the sudder jumma of which is Rs. 1,256-8-7, will be sold. The separate account share, the sudder jumma of which is Rs. 437-2-10, will not be sold.	Sheik Alim Ullah and others.	1,236 5 7	.....	301 9 6

Burdwan Collectorate, the 28th February 1890. H. F. J. F. MAGUIRE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Patna, will be put up for sale at the Collector's Office of that district on 31st March 1890, corresponding with 25th Chyet 1297 F.S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 13th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
2	Alipur Dhongawan, pergunnah Telladha.	1,332 11 9	..	5a. 6d. 15k.	Mussamut Jharakha Kuer and others, non-applicant.	447 11 9		5 13 6
				A. D.				
3	Bholwa Barhri, &c., pergunnah Rajgir.	2,297 11	....	Bholwa ... 5 10 Borhri . 5 10 Dumri ... 5 10 Chak Rasul 5 10 Chak Sorisi 5 10	Shaikh Chowdhri Zohurul Hoq and others, applicant for separation of account.	769 13 0	.....	16 7 9
4	Bhooski, pergunnah Bailkatpur.	881 9 2	Whole	.....	Bajrang Persad and others.	.....	0 0 11	.....
12	Bakipur Goruk, pergunnah Azimabad.	1,360 8 3	Do.	.....	Babu Nonit Lal and others.	.....	138 3 0	...
17	Indont, pergunnah Shahjehanpur.	1,015 0 0	Do. ..	... .	Syed Amed Hosain and others.	....	30 10 4	.... .
37	Bara Chak Bara, pergunnah Telladha.	800 8 6	.....	10a.	Sookhoo Sah and others, non-applicant.	500 5 8	.....	0 0 7
40	Bazidpur Parthoo, pergunnah Telladha.	533 5 4	..	9a. 8p.	Mussamut Jhorokha Kuer and others, non-applicant.	322 3 8	.....	9 11 5
47	Hisah Chowsanda, pergunnah Biswak.	906 10 8	.....	5d.	Mussamut Sharifan, applicant for separation of account.	14 2 9	.... .	3 8 8
47	Ditto ditto ..	906 10 8	.....	7d. 10k.	Mussamut Shakran, for self and guardian of Mussamut Badlan, applicant for separation of account.	21 4 0	.....	5 5 0
47	Ditto ditto ..	906 10 8	.....	6a. 0d. 16k. 13b 6ph. 18r.	Muleck Zohurul Hoq and others, non-applicant.	342 5 0	.....	22 13 1
50	Dyalpur, pergunnah Pilich	2,480 4 3	.....	Dyalpur, 10a. 6d 11k. 15b. 18ph. 10r. Bhagwantpur Utra, 10a. 4d. 3k. 19b. 18ph. 10r. Mohesbpur, 10a 9d. 11k. 17b. 3ph 16r. 10t. Chak Astha, 10a. 1d 8k. 9b. 5ph. 10r. Patasong Bandeh, 10a. 9d. 5k, 2b. 2ph. Tharthori Khurd, 10a. 15d. 8k. 13b. 1ph. 10r. Lodipur Toni, 10a. 4d. 11k. 13b. 3ph. 16r. 10t.	Mussamut Tara Kuer and others, non-applicant.	1,558 5 10	.....	1 3 8
69	Charni, pergunnah Shahjihanpur	1,630 0 0	....	10a. 10d.	Mussamut Monran and others, non-applicant.	1,063 2 0	... ...	0 0 2
69	Poona Chhariahri, pergunnah Pilich	1,068 12 10	Whole	....	Babu Behari Lal and others.	.. ...	23 6 4	.. .
70	Gobindpur Birhna, pergunnah Bhimpur.	624 0 0	.....	.....	Tafazul Hosain and others	.....	1 0 0	... ..
101	Kapiawan, pergunnah Pilich.	1,813 6 1	.....	14a. 8d. 12k. 13b 15ph.	Syed Monbar Rahman, manager of the estate of Debi Persad, lunatic, applicant for separation of account.	1,033 2 0	.....	150 10 0
101	Kapeawan, pergunnah Pilich.	1,813 6 1	.....	1a. 11d. 7k. 6b. 5ph.	Mahabir Persad Singh and others, non-applicant	178 4 1	.....	9 12 9
126	Ghosetawan, pergunnah Biswak.	659 8 11	.....	10a. 11d. 19k. 11b 18ph. 9t. 2 tilwasi.	Syed Kasim Ali and others, non-applicant.	436 13 8	.....	7 12 3
135	Khejura, pergunnah Shahjehanpur.	1,495 14 6	Whole	.....	Mussamut Sharfan and others.	.....	75 9 2	..
136	Panwarah, pergunnah Pilich.	872 12 1	Do. ...	.....	Lachman Persad and others.	.....	217 12 7	
140	Korari Hajipur, pergunnah Shahjehanpur.	1,231 1 1	Do.	.. ...	Shaikh Khoda Bax and others.	...	261 4 3	. ..
147	Kasbeh Barhowna, pergunnah Pilich.	5,712 0 0	.....	Kasbeh Barhowna, 12a. 5d. 2k. 10b. 1ph 10r. Karut, 10a. 6d 15k. 16b. 16ph. 10r. Barara, 11a. 17d. 10k. 2b. 7ph. 10r Ahrawan, 12a. 17d. 10k. 2b. 7ph. 10r. Babhanawan, 13a. 5d 2k. 10b. Athabalpur Pathana, 13a. 5d. 2k. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kifait Hosain and others, non-applicant.	4,490 10 10	... ..	447 4 10
154	Rampur Tiru, pergunnah Pilich.	563 7 6	Whole ..	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Persad Singh and others.	... ..	0 3 8	.....
187	Shaik Mohomedpur, pergunnah Bhimpur.	592 14 0	...	1a. ...	Wazir Ali, applicant for separation of account.	37 1 0	.	8 15 11
187	Ditto ditto ...	592 14 0	.....	11a.	Mussamut Saliman and others, non-applicant.	407 9 6	.....	93 10 2
188	Makhdumpur Kasba, pergunnah Biswak.	694 6 8	. ...	2a. 6d. 12k. 19b. 10ph.	Shaikh Khurshedali and others, applicant for separation of account.	101 3 8	... .	20 2 11
188	Ditto ditto	694 6 8	.....	1a.	Mussamut Rohiman, applicant for separation of account.	43 6 6		10 13 8

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
188	Makhdumpur Kasba, pergunnah Biswak.	694 6 5	.....	19*d* 8*k*. 2*b*. 14*ph*. 5*r*.	Tika Rout and others, non-applicant.	42 0 7	.....	4 11 7
200	Mastafapur Arrawan, pergunnah Shahjehanpur.	1,281 1 1	Whole ...	.....	Mussamut Bibi Sharfan and others	.....	255 15 5	.....
207	Ghoserawan, pergunnah Behar	1,985 9 0	.....	10*a*. 4*d*. 15*k*. 18*b*. 11*ph*. 3*r*.	Syed Karamat Hosain and others, non-applicant.	1,270 11 5	.....	1 15 9
225	Akbarpur Bhadwar, pergunnah Masondha.	3,215 10 9	.....	Ans. Akbarpur Bhadwar ... 16 Pansuhi ... 16 Dorawan ... 4 Shorampur... 16 Sherpur ... 16 Hushanpur Lachman ... 16 Mominpur Nadawana 16 Mosumpur Bandauli ... 16 Chak Shamsuddin ... 16 Kodera ... 16 Katari Billori ... ... 16 Runapur ... 16 Paiganpur ... 16 Shibdaspur Kurkuri ... 16 Jadopur ... 16 Moazamabad, Bali Pakar ... 16 Dariapur Anant ... 16 Sikaria ... 16 Parsurampur Hir ... 16 Jalalpur Elahi ... 16 Ranipur Misrowli ... 16 Kishopur ... 16 Shazadpur Mori ... 16 Atapur Rukun ... 16 Alampur Jarkha ... 16 Radhunathpur Mori ... 16 Saidabad Bikram ... 16 Bala Gobindpur ... 16 Patranga .. 16 Ahmedabad Khania ... 16 Bali Patowna .. ... 16 Patowna ... 16 Raghunathpur Jaghandan ... 16 Korikusho ... 16 Kishopur ... 16 Masondhakhas ... 16 Harinagar ... 16 Nasirpur Biga ... 16 Bihta ... 16 Abdullapur Khankuli . 16 Ganga Chak Mai Nazumpur ... 16 Dadopur ... 16 Mahomed Khanpur Dorab ... 16 Fizilpur Patan ... 16 Ibrahimpur 16 Adampur Ganga ... 16 Parsurampur Kanak 16 Bishunpur Manshahi .. 16 Saroute ... 16 Karanpura .. 16	Babu Sheonandan Persad and others, non-applicant.	2,604 11 10	.....	14 0 1
301	Mastafabad Asarhi, pergunnah Telladha.	883 12 0	Whole ...	... ..	Shaikh Fazloor Rohoman	.....	110 6 2	.....
337	Muradpur Bind, Fatehpur Bind, pergunnah Behar	802 2 0	Whole ...	.....	Churawan Singh and others.	.....	0 5 7	.....
355	Khodaboxpur, pergunnah Azimabad.	3,230 0 7	.....	Gangapur, 1*a*. 10*d*. Baria Khurd, 1*a*. 10*d*. Bhagwanpur, 1*a*. 10*d*. Rukunpur, 1*a*. 10*d*. Mohomedpur, 1*a*. 10*d*. Dalanpur, 1*a*. 10*d*.	Bishan Sahai, applicant for separation of account.	110 1 8	.....	20 9 8
355	Ditto ditto ...	3,230 0 7	.....	Pir Mohomedpur Deara, 10*a*.	Jagoo Lal Upadhia and others, non-applicant.	473 10 7	.....	32 14 11

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
427	Akbarpur Kurtha, pergunnah Telladha.	853 5 4	.....	5*a.* 4*p.*	Raj Bahadur Singh and others, non-applicants.	284 7 1		0 3 5
429	Kasbeh Shorepur, pergunah Manair.	2,615 10 11	.....	8*a.* 13*d.* 4*k.* 5*b.* ...	Mussamat Hamidunnisa and others, non-applicants.	1,415 13 3	.....	61 2 3
473	Mustafapur Arai, pergunnah Sanda.	797 13 10	.....	4*a.*	Syed Wajid Hosain and others, applicants for separation of account.	199 7 5	.....	49 14 0
478	Utarnawan Buzurg, pergunnah Behar.	2,323 0 0	.....	9*a.* 15*d.*	Syed Ahmed Hosain and others, non-applicants.	1,415 0	.....	11 13 9
556	Kishanpur Karowla, pergunnah Gyaspur	781 0 0	.....	14*a.* 10*c.*	Khajah Syed Hosain and others, non-applicants.	685 6 5	.....	0 0 3
724	Jehangirpur Mongarpal, pergunnah Manair.	2,316 4 4	....	1*a.*	Rai Monohar Lal and others, applicants for separation of account.	144 12 3	.....	0 1 3
724	Ditto ditto ..	2,316 4 4	..	15*d.*	Seetanat Sahai and others, applicants for separation of account.	108 10 0	.....	0 15 5
724	Ditto ditto ..	2,316 4 4	.....	1*a.* 11*d.* 17*k.* 15*.* ...	Mussamat Sriana Kuer and others, non-applicants.	230 7 1	.....	14 12 10
726	Yakubpur Tungi, *alias* Fateh Ali Chak, pergunnah Behar.	651 0 0	.....	9*a.* 10*p.* 8*c.* 8*m.* ...	Syed Mahomed Ismile and others, non applicants.	401 8 0	.....	80 4 11
			2nd Kind.					
763	Arazi Towfir Rampur Ghoshur, pergunnah Manair.	1,236 5 11	Whole ...	.....	Srikewal Singh	.....	1,483 6 2	.....
742	Arazi Beshi Degra Mohazi Jehangirpur, Mongarpal, pergunnah Manair.	1,561 8 3	.....	5*a.* 11*d.* 13*k.* 6*b.* ..	Moulvi Abdul Karim and others, applicants for separation of account.	520 8 1	.....	90 9 3
742	Ditto ditto ...	1,561 8 3	.....	2*a.* 5*d.*	Kishandyal Lal and others, non-applicants.	219 11 4	.....	5 6 1
778	Sabnawan, pergunnah Gyaspur.	1,493 11 11	.....	.....	Mussamat Sharfan and others.	.....	373 6 10	.....

PATNA COLLECTORATE, BANKIPORE, the 28th February 1890. C. J. S. FAULDER, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Jessore will be put up for sale at the Collector's Office of that district on the 8th April 1890, corresponding with 27th Chaitra 1296 (B.S.), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
6	Anpara, pergunnah Isafpur.	599 6 11	Whole.	.....	Syama Charan Ghosh and others.	.....	87 6 8	.....
198	Madhupur, pergunnah Mahamed Sahi.	530 1 3	.....	Share No. 1 ...	Hari Nath Basu and others	129 10 5	.....	2 13 6
258	Sidhipasa, pergunnah Isafpur.	2,335 4 7	.....	Do. „ 1 ...	Mukta Kesi Chaudhurani.	467 1 0	.....	135 13 0
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 2 ...	Gopeshur Pal Chaudhury.	467 0 11	.....	135 12 9
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 3 ...	Ditto ditto ...	467 0 11	.....	135 14 5
258	Ditto ditto ...	2,335 4 7	.....	Do. „ 4 ...	Chandi Mani Chaudhurani.	934 1 9	.....	271 11 4

Jessore Collector's Office, the 1st March 1890. C. J. O'DONNEL, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates, in the district of Rajshahye, will be put up for sale at the Collector's Office of that district on 27th March 1890, Thursday, corresponding to 15th Chaitra 1296 B.S., for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
307	Kismat pergunnah Dhamin.	4,300 2 0	.....	Excluding the share for which separate account has been opened.	Gokul Chandra Chowdhury, and Sayad Abdul Selim.	1,903 5 0	.....	13 15 0

Rajshahye Collectorate, the 24th February 1890. O. C. CHATTERJEE, Deputy Collector in charge.

NOTICE is hereby given that the undermentioned plots of land no longer required by Government, situated along the western or Bettiah extension of the Tirhoot State Railway in the district of Chumparun, will be put up to sale on Monday, the 21st April, and following days, at Motiharee.

The purchasers of the plots will be subject to the following conditions:—

1*st*.—The purchasers will have no power to make any excavation on the land nearer than fifteen feet from the railway fencing, or plough it closer than three feet from its foundation.

2*nd*.—If the amount of purchase-money does not exceed Rs. 100, the whole amount to be paid down at once.

3*rd*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by the fifteenth day after the sale, reckoning the day of the sale as one, or if the day be a close holiday, then by the noon of the first succeeding office day, the sale to be cancelled, the sum deposited being forfeited to Government, and the land to be again put up for sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

4*th*.—The plots will be sold revenue-free to the highest bidders.

5*th*.—The purchasers shall be put in possession on receipt of the orders of Board approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive lot number.	Name of zillah.	Pergunnah and mouza.	Number of mile on which land is situate.	Situated on which side of the railway.	Approximate area of lot in bighas and in acres.		Land excluded from sale from each lot.		Commencement and termination of lot.	Boundaries of lot.
					B. K. CH.	A. R. P.	Reasons for exclusion.			
81	Chumparun	Parsauni, Mehsi, pergunnah	85	East	.....	1 0 35	.....	.....	From the end of lot No. 49	East—Railway A class land. West—Zemindari land. North—Village. South—Lot No. 49, village Bishunpore Kate n.
82	Ditto	Chak Bara	85	West	.....	0 1 9	.....	.....	From boundary of village Parsowni to the termination of the lot as per plan.	East—Z mindari land and village boundary. West—Railway A class land. North—Village lands. South—Lands of village Parsowni
83	Ditto	Ditto	86	Do.	.....	1 3 8	.....	.....	From the termination of lot No. 82 to the boundary of the village	West—Zemindari land. East—Railway A class land. North—Boundary of village Kooriah. South—Village Chakbara.
84	Ditto	Ditto	86	East	.....	1 6 31	.....	.....	From chainage No 456½ to the boundary of the village.	West—Railway B class land. East—Zemindari land. North—Boundary of village Kooriah. South Zemindari land.
85	Ditto	Kasmarpore	91	West	.....	0 3 6	.....	.....	From village boundary to the commencement of lot No. 86.	West—Zemindari land East—Railway A class land. North—Lot No. 86. South—Village boundary.
86	Ditto	Ditto	92	Do.	.....	1 3 6	.....	.....	From termination of lot No. 85 to the boundary of village Kooriah.	West—Zemindari land. East—Railway A class land. North—Boundary of village Kooriah. South—Lot No. 85.
87	Ditto	Ditto	92	East	.....	1 2 34	.....	.....	From boundary of village Ramgudhwa to the boundary of village Kooriah.	West—Railway A class land. East—Zemindari land. North—Village boundary of Kooriah. South—Boundary of village Ramgudhwa.
88	Ditto	Chandsarae	93	Do.	....	0 0 14	.....	.....	From boundary of village Punditpore to the boundary of village Madhochupra.	West—Railway A class land. East—Zemindari land. North—Boundary of village Madhochupra. South— Ditto Chandsariah.
89	Ditto	Lokmathpore	107	West	.....	1 3 26	.....	.....	From boundary of the village to the boundary of village Semra.	West—Zemindari land. East—Railway A class land. North—Boundary of village Semra. South— Ditto of the village.
90	Ditto	Ditto	107	East	.....	1 3 23	.....	.....	Ditto ditto	West—Railway A class land. East—Zemindari land North—Boundary of village Semra. South— Ditto of the village.
91	Ditto	Barabroopia	115	West	.....	0 3 35	.....	.....	From boundary of the village to the commencement of lot No. 65.	West—Zemindari land. East—Railway A class land. North—Lot No. 65. South—Boundary of the village.

62	Ditto ...	Ditto	115	East	.....	0 1 20	.....	.....	From boundary of the village to the commencement of lot No. 64.	West—Railway A class land. East—Zemindari land. North—Lot No. 64. South—Boundary of the village.
63	Ditto ...	Ditto	116	West	.....	1 0 28	.....	.....	From lot No. 61 to the commencement of the zemindari land.	West—Zemindari land. East—Railway A class land. North - Zemindari land. South—Lot No. 61.
64	Ditto ...	Ditto	116	East	.....	1 2 35	.....	.....	From lot No. 62 to the village boundary.	West—Railway A class land. East—Zemindari land. North—Boundary of village Bahoorwa. South—Lot No 62.
65	Ditto ...	Shampore	120	West	.....	1 0 21	.....	.....	From the village boundary to the boundary of village Baithoonia.	West—Zemindari land. East—Railway A class land. North - Boundary of village Baithoonia. South—Village boundary.
66	Ditto ...	Ditto	120	East	.....	1 0 9	.....	.....	Ditto ditto ..	West—Railway A class land. East—Zemindari land. North—Boundary of village Baithooria South—Village boundary.
67	Ditto ...	Majhawlia	122	West	.....	0 3 17	.....	.....	From the village boundary to the commencement of lot No. 68.	West—Zemindari land. East—Railway A class land. North—Lot No. 68. South—Village boundary.
68	Ditto ...	Ditto	123	Do.	.....	0 2 12½	.....	.....	From lot No. 67 to the commencement of lot No. 69.	West—Zemindari land. East—Railway A class land. North—Lot No. 69. South—Lot No 67.
69	Ditto ...	Ditto	123	Do.	...	1 1 21½	.....	.....	From lot No. 68 to the commencement of lot No. 70.	West—Zemindari land. East—Railway A class land North—Lot No. 70. South—Lot No. 68.
70	Ditto ...	Shampore	123	Do.	.....	0 1 20	.....	.....	From lot No. 69 to the boundary of village Mahuddinpore.	West—Zemindari land. East—Railway A class land. North—Boundary of the village Mahuddinpore. South—Lot No. 69.
71	Ditto ...	Ditto	123	East	.....	0 0 18	.....	.....	From zemindari land in the west to the zemindari land in the east.	West—Railway A class land. East—Zemindari land. North— Ditto South— Ditto.

Chumparun Collectorate, Motiharee, the 28th February 1890.

A. W. B. POWER, Offg. Collector

NOTICE is hereby given, under sections 6 and 18, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Shahabad will be put up to public and unreserved sale at the Collector's Office of that district on the 26th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Serial No.	Touji No.	Name of mehal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	62	Rokharapur, pergunnah Arrah.	2,666 0 8	.....	6a. 11p. 11k. 2m. 4d.	Baboo Raghunandan Prasad Pande and others.	1,166 8 1½	.....	19 15 10½
2	522	Gyanpur, pergunnah Arrah.	1,706 10 8	.....	8a.	Raghunandan Prasad Pande.	853 5 4	.....	133 5 4
						Radho Madho Prasad Pande.	853 5 4	.....	133 5 4
3	533	Pakri Tappa Kuderia, pergunnah Arrah.	2,265 9 7	.....	A. P. K. M. Pakri Chanda Chanderbhanpur 2 0 7 4 Baghipankar ... 2 8 0 0 Rampore 2 8 0 0	Ram Agyan Misir ...	380 15 10	.....	17 15 10
					Pakri Chanda Chanderbhanpur 3 2 8 0 Baghipankar ... 2 8 0 0 Rampore 2 8 0 0	Mahadeo Misir ...	418 15 10	.....	8 6 2
					Pakri Chanda Chanderbhanpur 1 11 0 10 Baghipankar ... 7 4 0 0 Rampore 10 0 0 0	Gopal Saran Misir and others.	647 11 10	.....	14 15 0
4	632	Salempore Persa, pergunnah Arrah.	4,000 0 0	Whole	.....	Baboo Bai Nath Sahai.	.....	1,000 0 0	.....
5	771	Toufir Kotwa Rampore, pergunnah Barahgawan.	1,080 0 0	.....	13a.	Jhagroo Pande and others.	677 8 0	.....	14 7 8
6	1291	Bhadwar, pergunnah Bhojepur.	334 6 5	.....	Re. Baradhi ... ... 1 Koodie ... ... 1 Itoundha 1	Hardyal Singh and others.	469 7 1½	.....	19 5 11
					A. P. K. M. D. B. Usra ... 12 5 6 13 5 0 Chooramanpur 10 2 8 0 0 0 Bhadwar ... 12 1 12 0 0 0 Ramdiha ... 10 2 8 0 0 0				
7	1360	Karsand, pergunnah Bhojepur.	1,976 10 8	.....	Samasr ... 5 6 17 0 0 0 Nonfer ... 5 6 17 0 0 0 Belwandia ... 14 6 4 8 13½ 0 Baradih 13 8 5 2 13 0 Parwandpore 7 4 17 15 8½ 0 Karsandkhas 7 4 10 2 7 14 Padaria ... 16 0 0 0 0 0 Sewaie ... 10 8 0 0 0 0 Kataipore ... 8 0 0 0 0 0	Sham Charan Singh and others.	8 9 1½	.....	1 10 0
						Mooni Singh and others.	778 3 1½	.....	223 8 0½
8	1719	Indour Patti Girdharisingh, pergunnah Chowsa.	334 5 7	Whole	.....	Isri Rai and others ...	.....	1 1 0	.....
9	1720	Indour Patti Jia Singh, pergunnah Chowsa.	1,330 3 3	.....	Indour, 7a. 8p. 8k.	Ongrah Rai and others	431 12 1	.....	160 5 7
10	2056	Tiwai, pergunnah Chowsa.	502 5 3 Mall 5a. mottarpha.	.....	7a. 0p. 10k.	Bhairo Rai and others	244 9 11½ mall	.....	61 4 1½
11	2080	Anraia Bheribhoosar, pergunnah Chainpur.	592 14 11½	Whole	.....	Sooraj Narain Singh and others.	.....	157 0 0	.....
12	2173	Bahera Kalan, pergunnah Chainpur.	508 12 10	.....	6a.	Ram Lal Rai and others.	190 12 9½	.....	35 5 2½
13	2329	Darouli, pergunnah Chainpur.	2,344 8 6	.....	Darouli 1a. ; Bishunpura *alias* Datiaon 2a.	Bhagwati Singh ...	197 7 8½	.....	41 1 10
14	2338	Darwan Surat, pergunnah Chainpur.	1,066 10 8	.....	4a.	Girdhari Rai and others.	266 10 8	.....	85 5 11½
					3a. 2p.	Attar Rai and others ...	211 1 9½	.....	9 7 7½
15	2341	Damodarpore, pergunnah Chainpur.	723 3 2	Whole	.....	Bhola Nath Singh and others.	.....	53 4 1	.....
16	2356	Dandwa, pergunnah Chainpur.	804 10 9½	.....	5a. 4p.	Bali Ram Singh and others.	268 3 6½	.....	10 8 11½
17	2357	Daudkhili Moharukpore, pergunnah Chainpur.	739 2 1	Whole	.....	Baboo Mahip Narain Singh and others.	.....	62 2 8	.....
18	2519	Hemrajpore, pergunnah Chainpur.	608 0 0	Do.	.....	Radha Mohun Pershad Pande and others.	.....	190 0 0	.....
19	2544	Isri, pergunnah Chainpur.	560 0 0	.....	15a.	Ram Lal Singh and others.	.....	33 4 8	.....
20	2560	Jigna Ghoordewa, pergunnah Chainpur.	763 11 9	Whole	.....	Ajodhya Singh and others.	.....	93 12 4	.....
21	2620	Karwandia, pergunnah Chainpur.	1,558 15 6	.....	Rs. A. P. K. M. D. Baghi ... ... 0 4 0 0 0 0 Pathra ... ... 0 4 0 0 0 0 Baghi ... ... 0 4 0 0 0 0 Pathra ... ... 0 2 0 0 0 0 Hemrajpore with Sooraipoorapiperia. 0 8 0 0 0 0 Kasha Kayari ... 0 4 0 0 0 0 Korie Chowbe ... 0 8 0 0 0 0 Lesha ... ... 0 2 5 6 13 5 Patedhi ... ... 0 4 8 0 0 0 Karwandia ... 0 4 0 8 0 0 Patti Chetha ... 0 8 0 0 0 0 Pathra ... ... 0 1 0 0 0 0 Kasha Chainpur ... 0 8 0 0 0 0 Sirsi ... ... 0 8 0 0 0 0 Mohamadpur ... 0 8 0 0 0 0 Chandia ... ... 0 8 0 0 0 0 Saraa Maldah ... 0 8 0 0 0 0 Sohra Jairampur... 0 8 0 0 0 0 Noura ... ... 0 8 0 0 0 0 Ojhkirad ... ... 0 8 0 0 0 0 Askda ... ... 1 0 0 0 0 0 Rampore ... ... 1 0 0 0 0 0 Jodharpur ... ... 1 0 0 0 0 0 Pattigaesh ... 1 0 0 0 0	Mussamut Bhinika Kumari.	20 10 8	.....	6 12 6
						Kunj Behari Singh and others.	33 5 4	.....	44 15 10
						Hoormatali and others.	302 13 1	.....	403 8 7½

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mehal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs A P.
22	2633	Kalyanpur, pergunnah Chainpur.	533 5 4	Whole ...	.....	Deo Narain Singh and others.	.... .	133 5 4	...
23	2774	Masondha, pergunnah Chainpur.	680 4 11	Do. ...	.....	Bal Krishna Singh and others.	.....	42 8 7	.... .
24	2795	Mahoola, pergunnah Chainpur.	427 11 9	.....	Rs. A. P. K. M. Padri ... 0 1 0 0 0 Dighi ... 0 1 0 0 0 Mahoola ... 0 8 9 12 0 Nakhtawal ... 0 6 9 12 0 Tigna ... 1 0 0 0 0 Sodea ... 1 0 0 0 0	Ram Augrah Singh and others.	194 12 9½	.....	18 14 8
25	2878	Nacoson Jhouti, pergunnah Chainpur.	814 14 11	Whole ...	.....	Gopal Saran Singh and others.	.....	12 8 4	.....
26	2928	Pandepur, pergunnah Chainpur.	535 3 11	.....	Asoura ... ... 0 2 8 0 0 Do. 0 11 4 0 0	Dewan Bai and others	60 3 1½	.....	1 12 10
						Bakari Singh and others.	255 13 2	.....	27 7 8
					Machanhat ... 0 8 7 19 1	Gya Narain and others	69 8 6	.....	5 4 5½
					Machanhat ... 0 2 4 0 19	Sheo Saran Singh and others.	43 1 8½	.....	7 12 5
27	2944	Parisri, pergunnah Chainpur.	1,527 7 6	Whole ...	Pandepur ... 1 0 0 0 0	Baboo Radha Mohun Pershad Pande.	.....	477 5 5	... .
28	2953	Poosouli, pergunnah Chainpur.	500 0 0	.....	10a.	Ram Jatan Singh and others.	350 0 0	.....	35 12 6
					2a.	Manbooh Rai	70 0 0	.....	56 3 0
					3a.	Bulwant Chobe ...	105 0 0	.....	30 2 10
29	3043	Sanwath, pergunnah Chainpur.	596 6 5	Whole ...	.....	Bhola Nath Singh and others.	.....	577 5 11	.....
30	3074	Sodhi, pergunnah Chainpur.	1,636 4 3	.....	Re. Sodhi 1	Sinnand and others ...	1,606 6 5	.....	56 6 0
31	3087	Shewaka Narhan, pergunnah Chainpur	2,123 4 3	.....	8a.	Baboo Bishoonath Singh and others.	1,066 2 1½	.....	500 8 6½
32	3030	Khadaon, pergunnah Dmara.	986 10 5	.....	Khadaon Khurd and Kalan, Dhanchooan and Bhanjandihra, 11a. 2p. 8d.	Doodhnath Thakoor and others.	690 10 4	.....	68 2 7
33	3699	Bajarya, pergunnah Nanor.	950 0 0	Whole .	.....	Ramnarain Singh and others.	... ..	14 4 9	... ..
34	3789	Kowlodihri, pergunnah Nanor.	752 9 8	Do ...	.....	Sheo Ghoolam Singh and others.	.....	123 11 2	.....
35	3843	Mirzapur Atpa, pergunnah Nanor	645 0 0	.....	8a.	Lachmi Narain, and others.	322 8 0	.....	60 0 0
36	4394	Dauroon, pergunnah Piro.	900 0 0	Whole ..	.. ..	Agha Sultan Tafazzul Hossein.	.....	109 0 0	.....
37	5540	Laheri, pergunnah Sasseram.	1,250 11 9	Do. ...	.....	Baboo Sheo Lochan Singh.	.....	36 0 10	...
38	5633	Mahooari Baraicha, pergunnah Sasseram.	658 2 2	.....	Re. Mahooari ... . 1 Parasia 1	Bibi Fatma and others	331 11 9½	.....	2 14 9½
39	6739	Bhaboon, pergunnah Chainpur.	614 8 7	Whole ...	-	Choudhri Ram Saran Singh and others.	.....	161 6 10	....

Shahabad Collectorate, dated Arrah, the 1st March 1890. F. R. S. COLLIER, Collector.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Koonjo Behary Banerjea and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Aliporo, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 223, Dhobadi...	Khulna, Paikgatcha	Bighas, 8,400 In two blocks of bighas 4,200 each.	*North.*—By the Dhobadi and Arnachorra khals. *East.*—By the Chorra Bajna khal. *South.*—By the Chorra Bajna khal and Bhuddar river. *West.*—By the Bhuddar river. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office; Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Shuroop Chunder Shamunta, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 111, first portion.	24-Pergunnahs, Diamond Harbour, Sultanpur.	Bighas. 5,000	*North.*—By the Ghobatee or Kalinagunee Gang. *East.*—By an imaginary line drawn from a point on the banks of the Ghobatee or Kalinagunee Gang to a point on the banks of a khal rising from the Ghepotty khal or creek. *South.*—By the khal rising from the Ghepotty khal or creek and the Ghepotty khal or creek. *West.*—By the Ghepotty khal or creek. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Moti Lall Chatterjee, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 223, West Bajoee.	Khulna, Paikgatcha ...	Bighas. 4,000	*North*—By the Arna Dacopi and Bajna khals. *East*—By the Bajna khal and an imaginary line drawn from the mouth of Kocha Doaniya to the mouth of the Arna Chorra khal. *South*—By the Arna Chorra khal and an imaginary line drawn from the mouth of the Arna Chorra khal to the mouth of the Kocha Doaniya. *West*—By the Arna Dacopi and Arna Chorra khals. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Behari Lall Soor, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B S.), at the Sunderbuns, Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable:—

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No 185, second portion.	24-Pergunnahs, Bussirhat, Hossainabad.	Bighas. 4,000	*North*—By the Hutta Khali. *East*—By the Suk Doonia, Gabbunira khal and an imaginary line drawn from a point on the banks of the Suk Doonia to a point on the banks of the Gabbuniya khal. *South*—By the Bidha river and Gabbuniya khal. *West*—By the Hutta Khali. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Ram Pran Chuckerbutty and others, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 223, South Dacopi.	Khulna, Paikgatcha. .	Bighas. 6,000	*North*—By the Dacopi and Arnachorra khals. *East*—By the Arnachorra and Dhobadi khals. *South*—Dhobadi khal. *West*—By the Bhuddar river. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 28th April 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
				Permanently-settled estates of the first class.				
	Thanas Rauzan and Town—							
2/2	Taraf Ajodhya Ram, Fatteabad.	733 13 0	The whole estate is to be sold.	.....	Pran Krishna Das, Ram Shebak Das and others.	.....	155 13 8	..
	Thana Zorwargunge—							
10/35	Taraf Ashraff Akbar ...	694 1 3	A share will be sold.	Share No. 3 of the remaining proprietor	Trilochan Chowdry	82 14 1	.....	37 8 2
	Thanas Fattickcherry, Hathazaree, Patia, Rauzan Town and Zorwargunge.							
28/54	Taraf Anandeo Ram Kanoongoe.	849 6 9	Ditto ...	Share No. 5 of Raj Chandra Roy.	Purna Thakuranee, self and on behalf of Raj Manee and Bhoirab Chandra Das and others.	73 3 11	.....	5 10 2
	Thana Fattickcherry—							
37/64	Taraf Anandee Mancolla ..	1,160 0 3	The whole estate is to be sold.	.....	Nemai Charan Nandi and Srimatee Guna Seela.	.....	131 2 0	.....
	Thana Rauzan—							
83/391	Taraf Basanta Ram, Fatteabad.	557 14 3	The whole estate is to be sold.	.....	Anando Mohan Dey and Samad Ali and others.	.....	44 1 0	.....
169/805	Taraf Durlav Ram, Fatteabad.	819 0 0	Ditto ...	.....	Ishan Chandra Shaha.	.....	134 12 9	.....
	Thanas Fattickcherry, Zorargunge, Rauzan, Patia Town, and Satkania—							
217/1100	Taraf Gouri Sankar Kanoongoe.	1,232 3 2	A share is to be sold.	Share No. 1, owned by Gour Chander Datta.	Gour Chander Datta	54 6 0	.....	22 13 5
	Thanas Rauzan and Bhatiari—							
246/1289	Taraf Jusmant Singh ...	1,386 10 2	The whole estate is to be sold.	..	Ajgarali Chowdry, Nezamat Ali and others.	...	107 15 8	...
	Thanas Fattickcherry, Hathazaree, Patia, Satkania Town, and Sanu—							
257/1282	Taraf Juburdust Khan ..	6,538 4 1	A share will be sold.	Share No. 1 of Fazal Ahmed and others, and No. 3 of the remaining proprietor.	Fazal Ahmed and others, proprietors of share No. 1.	2,043 14 5	.....	926 2 0
					Susty Charan Nande, proprietor of the remaining share No. 3.	680 12 9	.....	310 7 2
	Thanas Patia and Satkania—							
286/1409	Taraf Kamar Kullee ...	1,015 13 0	A share will be sold.	Share No 7 of Khoreshedali.	Khoreshedali ...	131 3 10	.....	8 12 6
	Thanas Hathazaree, Patia, Rauzan Town, and Satkania—							
292/1513	Taraf Krishna Kishore Kanoongoe.	645 6 7	Ditto ...	Share No. 1 of Fazal Ahamad and others.	Fazal Ahmed Bajal Samud and Srimatee Tajannissa, Safaotannissa and Ekramuddin.	524 13 6	.....	237 10 2
	Thana Rauzan—							
305/1562	Taraf Canouse Fernandez	1,640 5 3	The whole estate is to be sold.	.....	Girish Chandra Rakhit and Guru Das Rakhit.	..	743 4 0	.
	Thana Hathazaree—							
308/1585	Taraf Mahamed Rafee Khansama.	930 15 0	Ditto ...	.....	Jugal Kishore Chowdry, Ganga Das Chowdry and others.	...	420 3 2	.....
	Thana Zorwargunge—							
48/2201	Kismut Nazirudin Ahmed, baboit taraf Hussen Ouli.	1,227 8 0	Ditto ..	.....	Shekh Olee Ahmed Chowdry.	.....	555 8 6	.....
	Thanas Patia Rauzan, Town and Satkania—							
477/2615	Kismat Prabhabatee baboit taraf Trylock Chunder.	746 6 3	A share is to be sold.	Share No. 3 of the remaining proprietors.	Chandra Kanta Pal, Nakuleshwar Pal and others.	696 5 0	.....	21 8 6
	Thanas Fattickcherry, Hathazaree, Patia Town, and Rauzan—							
481/2433	Taraf Pran Ballav .	944 5 5	Ditto ...	Share No. 1 of Renoocka.	Srimatee Brajeshwari, on behalf of the minor sons Banda Prasanna and Jaminee Rauzan.	236 1 4	... .	106 12 11
	Thana Rauzan—							
511/2533	Taraf Raghab Jagadish ...	515 0 3	Ditto ...	Share No. 13 of the remaining proprietors.	Gangadas and Brajo Mohan Chowdry and others.	114 2 7	.....	43 5 7

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
	Thana Rauzan—							
541 / 2567	Taraf Raj Jugal Krishna, Nanda Kishore Nundi.	573 11 9	The entire estate is to be sold.	...	Nimai Charan Nandee, Prasanna Kumar and others.	.....	86 2 3	.....
	Thanas Chakaria, Fatickchorry, Hathazaree, Zorargunge, Rauzan, Satkania and Patia—							
564 / 2860	Taraf Shambhoo Ram Kanoongoe.	4,224 9 0	A share is to be sold.	Share No. 6 of Brajeshwari.	Srimatee Brajeshwari.	606 3 6	.....	273 10 6
	Thanas Patia and Town—							
569 / 2929	Taraf Sachi Roshan	752 11 0	Ditto ...	Share No. 3 of Abdul Hamid.	Shaheb Mea ...	82 5 4	.....	36 14 8
	Thanas Bhatiari, Hathazaree, Zorargunge, Patia, Rauzan, Town and Satkania—							
573 / 2933	Taraf Sachi Ram Kanoongoe	826 12 9	Ditto ...	Share No. 14 of Ajgarali and others: No. 33 of Maneer Ahamed.	Ajgarali, Jeabul Hossien and Amir Hossen, proprietors of share No. 14.	4 12 4	.....	1 9 3
					Maneer Ahmed, proprietor of share No. 33.	55 2 9	.....	0 0 3
	Thana Chaakria—							
606 / 3113	Taraf Sher Masta Khan ...	527 6 6	Ditto ..	Share No. 1 of Fazal Ahmed and others.	Fazal Ahamad Bazal Samad, Tajannissa, Safantannissa and Ekramuddin.	165 10 0	.....	75 0 10
	Thanas Bhatiari, Zorwargunge, and Hathazaree—							
635 / 3880	Taraf Obedullah Sheikh, Mahomed Osee, Mahomed Ali.	678 7 0	Ditto ...	Share No. 2 of the remaining proprietors.	Sheikh Mahamed Asanullah Chowdry, Rohimulla Chowdry and others.	511 7 8	.....	225 4 0
	Thanas Fatickcherry, Hathazaree, Rauzan, Town and Satkania—							
638 / 3935	Taraf Radha Madhab	1,810 0 4	Ditto ...	Share No. 4 of Rajeshwari.	Balakdas Mohanta, on behalf of Radha Madhab Thakoor.	380 2 3	.....	49 6 4

N.B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 20th December 1889.

Chittagong Collectorate, the 8th March 1890. C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Bankoora, will be put up to sale at the Bankoora Collectorate on 28th April 1890, corresponding with 16th Bysack 1297 (B. S.)

The purchaser will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the law in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*.—If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government) and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

5*th*.—There is one bigha of land situated in mouzah Mohisbari, but appertaining to the estate Tiloori, for which a yearly rent of Re. 1 (one) is payable by Government to the Bengal Coal Company patnidars. The purchaser of the estate will therefore have to pay this rent annually to the patnidars.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
		A. R. P. Sq. Sq. ft. Sq. in.	Rs. A. P.
1025	Tiloori, pergunnah Mohesarah	4 3 1 15 4 31½	19 8 0

Bankoora Collectorate, the 14th March 1890. BHUBAN MOHON RAHA, Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B. C) of 1868, and Act II (B C) of 1871, that the undermentioned dependent tenures in the Cox's Bazar Khas Mahal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 28th day of April 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889 :—

Number of tenures in Register No. I.	Name of dependent tenure with its situation	ANNUAL RENTAL		THE AMOUNT OF ARREARS FOR WHICH TENURE TO BE SOLD			REMARKS.
		Rent.	Cess.	Rent.	Cess.	Total.	
	Mahal Noabad, thana Teknaff, mouzah Teknaff	Rs A. P.	Rs A P	Rs A P	Rs A P	Rs A P.	
44-1361-3 / 6393.	Old taluk Thou Chowdry, *hal* taluk Srimati Thou Chowdry	1,217 0 0	54 14 6	330 0 0	18 4 0	348 4 0	
	Mahal Noabad, thana Chakaria, mouzah Lakhyarchar						
231-235-324 / 3498.	Old taluk Mohan Lal Shukul, *hal* taluk Ishan Chandra Bakshi.	1,474 0 0	64 8 0	..	21 8 0	21 8 0	The entire taluks will be sold.
	Mahal Noabad, thana Chakaria, mouzah Bheola Manikchar						
260 274 / 365	Taluk Bibi Iuprak	757 10 0	96 7 0	189 0 0	32 2 0	221 2 0	
	Mahal Noabad, thana Teknaff, mouzah Dakhinkhila.						
556-1035	Taluk Srimati Khoamey Chowdrya, wife of Hrapoe Chowdry, Angajai and Keochai Chowdry of Dakhinkhila.	1,129 0 0	105 12 0	300 0 0	35 4 0	335 4 0	

Chittagong Collectorate, the 14th March 1890. C. P. CASPERSZ, Offg Collector.

District Charitable Society

Abstract of Accounts for the month of February 1890.

RECEIPTS.	February 1890.	From 1st January to 28th February 1890	PAYMENTS.	February 1890.	From 1st January to 28th February 1890.
	Rs. A. P.	Rs. A. P.		Rs A. P.	Rs. A. P.
Subscriptions—					
From Government	1,200 0 0	2,400 0 0	District Committees, monthly grant	1,208 4 9	2,846 14 10
,, Port Commissioners ..	200 0 0	400 0 0	Native Committee, monthly grant ..	1,540 10 8	3,099 5 4
,, Calcutta Municipality ..	100 0 0	200 0 0	Ditto, refund of deposit	.. ..	
,, the Public	2,099 0 0	3,272 0 0	Commissioner of Police for casual relief and rations	358 12 6	686 5 3
Donations and new Subscriptions	1,734 0 0	5,031 12 3	Booking Clerk, E. I. R., Howrah, for Ry passes ...	30 0 0	60 0 0
Allowances towards cost of establishment—			Pensions paid through Central Office .	335 0 0	663 0 0
From Government ..	250 0 0	500 0 0	Schooling fees	49 0 0	128 0 0
,, Mutiny Relief Fund ..	50 0 0	100 0 0	Reserve relief through President ..	10 9 0	10 9 0
Alms House proceeds	35 0 0	66 7 0			
Interest on Invested Funds	324 0 0	324 0 0	Alms House :—Establishment ..	377 0 0	754 0 0
,, on Trust Funds .. .	8,960 15 2	9,146 15 2	Dieting ...	891 13 9	1,791 5 6
Legacies	.. ...	.....	Contingencies	184 2 0	360 1 0
Government grant for Leper Asylum			Boots and shoes (Female Ward) ..	. ....	25 11 6
medicine and repairs	618 0 6	648 0 6	Clothing and bedding .	.. ...	.
Miscellaneous accounts ..	0 4 7	0 8 10	Municipal taxes ..	.....	..
Mutiny Relief Fund, for pensions ..	450 0 0	900 0 0			
Deposits and Advances	77 15 5	152 1 10	Leper Asylum —Establishment ..	158 0 0	316 0 0
Native Committee's Deposit	..	200 0 0	Dieting	378 4 0	757 12 0
			Medicines and contingencies	269 8 6	532 14 0
			Clothing and bedding	..	200 0 0
			Municipal taxes ..		.....
			Central Office :—establishment .	454 8 0	909 0 0
			Commission on collections	251 0 8	502 15 1
			Auditing fees .. .		150 0 0
			Rent	30 0 0	60 0 0
			Contingencies ..	59 15 9	110 1 0
			Printing and advertising	74 10 0	130 14 0
			Interest on overdraft	32 7 7	121 12 8
			Bank's commission	10 7 10	10 15 4
			Law charges ...	8 14 6	8 14 6
			Mutiny Relief Fund pensions	434 0 0	896 0 0
			Deposits and advances .. .	98 13 5	300 9 10
Total ..	16,128 9 8	28,343 13 7	Total	7,241 14 11	14,772 15 11

MEMO.

	Rs A P		Rs A. P
Receipts as above	28,343 13 7	Payments as above .. .	14,772 15 11
		Overdraft in Bank of Bengal on 31st December 1889, Rs 13,027 6-3, *less* Rs 107-4-3, cash balance on that date	12,920 2 0
		Credit balance in Bank of Bengal on 28th February 1890, Rs 588-8 2, *plus* cash balance in office on 28th February 1890, Rs. 62-3-6	650 11 8
Total ...	28,343 13 7	Total .	28,343 13 7

CALCUTTA,
The 19th March 1890.

K MALLIKA,
Accountant.

PATRICK MCGUIRE,
Secretary.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Feb. 22	1 Cask, A A K C	Order ...	S. S. "City of Bombay."
Mar. 3	1 Cask, F W P	Ditto ...	Ditto.
,, 3	2 Bales, H S M I in a diamond, U H C outside ...	Ditto ...	Ditto.
,, 3	1 Case, M A by 233 in a diamond, J below ...	Ditto ...	Ditto.
,, 3	3 Cases, R R S by C in a diamond	Ditto ...	Ditto.
,, 3	1 Cask, S by 208 in a diamond, J below ...	Ditto ...	Ditto.
,, 3	3 Bales, S M I by 583 in a block	Ditto ...	Ditto.
,, 3	2 Cases, T in a triangle, A P top	Ditto ...	Ditto.
,, 3	1 Case, A R T by C in a diamond	Ditto ...	Ditto.
,, 3	1 Case, H M & Co.	Ditto ...	Ditto.
,, 3	35 Rundlets, 163 in a diamond, T top	Ditto ...	Ditto.
,, 3	1 Rundlet, B B by X, or no mark	Ditto ...	Ditto.
,, 3	3 Pieces jaws, no mark	Ditto ...	Ditto.
,, 3	1 Bale, H S M Y by 589 in a block	Ditto ...	S. S. "Hesperia."
,, 3	1 Case, F in a triangle, top F F	Ditto ...	Ditto.
,, 3	1 Case, 149 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 3	1 Cask, R C H & Co. in a block, top B S ...	Ditto ...	Ditto.
,, 3	2 Cases, 62 by 655 in a block, T B & Co. outside ...	Ditto ...	Ditto.
,, 3	3 Cases, 62 by 684 in diamond, T B & Co. outside ...	Ditto ...	Ditto.
,, 3	4 Cases, 28 in a block triangle, W H N below ...	Ditto ...	Ditto.
,, 3	1 Case, 525 in a diamond, W H M M outside ...	Ditto ...	Ditto.
,, 3	1 Case, D Coinder, Esq.	Addressed ...	Ditto.
,, 3	1 Case, the Planter Store Agency Company, Limited	Ditto ...	Ditto.
,, 3	1 Case, T N Sing & Son	Ditto ...	Ditto.
,, 5	3 Casks cement, W in a diamond	Order ...	S. S. "Chusan."
,, 5	1 Case, A C	Ditto ...	Ditto.
,, 5	1 Case, 557 in a diamond, B K L outside ...	Ditto ...	Ditto.
,, 5	7 Packages, B B M in a diamond, G A & Co. outside.	Ditto ...	Ditto.
,, 5	1 Cask, B & S E A K	Ditto ...	Ditto.
,, 5	147 Casks cement, B & N W P S	Ditto ...	Ditto.
,, 5	3 Cases, C B & Co. by S in a diamond	Ditto ...	Ditto.
,, 5	1 Case, C by 2 in a diamond, A D M below, or the Officer in charge, Government Emigrant Hospital.	Addressed ...	Ditto.
,, 5	12 Packages, C M B by 516 in a diamond, B B & Co. below.	Order ...	Ditto.
,, 5	1 Case, 525 in a diamond	Ditto ...	Ditto.
,, 5	1 Case, John Francis Asphor, Esq., care of G. F. Sabba, Esq.	Addressed ...	Ditto.
,, 5	1 Case, F W Gatliff, Esq.	Ditto ...	Ditto.
,, 5	1 Case, H C G & Co. in a diamond, S & S by C below.	Order ...	Ditto.
,, 5	4 Bars round iron, no mark	Ditto ...	Ditto.
,, 5	16 Packages, no mark	Ditto ...	Ditto.
,, 5	1 Keg, I W by B in a diamond	Ditto ...	Ditto.
,, 5	1 Case, J S by I T in a cross, Cheshire Regiment below.	Ditto ...	Ditto.
,, 5	1 Case, J J in a diamond	Ditto ...	Ditto.
,, 5	1 Case, R S in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 5	1 Case, K by 130 in a triangle, A B top ...	Ditto ...	Ditto.
,, 5	1 Case, K E by 60 in a diamond	Ditto ...	Ditto.
,, 5	2 Cases, L O C K E	Ditto ...	Ditto.
,, 5	14 Cases, 345 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 5	9 Bottles quicksilver, C	Ditto ...	Ditto.
,, 5	10 Cases, R L D in a diamond	Ditto ...	Ditto.
,, 5	1 Case, R L L by Meerut	Ditto ...	Ditto.
,, 5	1 Case, S S D D in a diamond, V H C outside ...	Ditto ...	Ditto.
,, 5	4 Cases, 3010 in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 5	2 Cases, 870 in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 5	1 Case, 76 by 732 in a diamond, T B & Co. outside	Ditto ...	Ditto.
,, 5	1 Case, Captain Townshend	Addressed ...	Ditto.
,, 5	1 Case, T R	Order ...	Ditto.
,, 5	1 Parcel, Messrs. Octavius Steel & Co. ...	Addressed ...	Ditto.
,, 5	10 Drums, G M D × 516 in a diamond, B B & Co. below.	Order ...	Ditto.
,, 5	10 Cases, D in a diamond	Ditto ...	S. S. "India."
,, 5	4 Cases, L O C K E	Ditto ...	Ditto.

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Mar 5	70 Drums, 164 in a diamond, T top	Order ...	S. S. "India."
,, 5	8 Cases, A M M by C J H & S in a diamond, care of Messrs M Mackenzie & Co.	Ditto ...	Ditto.
,, 5	2 Cases, B L D & Co.	Ditto ...	Ditto.
,, 5	5 Cases, 10131 in a diamond, B R & B outside ...	Ditto ..	Ditto.
,, 5	12 Kegs, C S N & Co.	Ditto ...	Ditto.
,, 5	1 Case, D S & A S	Ditto ...	Ditto.
,, 5	16 Cases, F in a triangle, C S & Co. outside ...	Ditto ..	Ditto.
,, 5	1 Case, F & Co. in a triangle, C & B below ..	Ditto ...	Ditto.
,, 5	1 Cask, F in a triangle & Co. below	Ditto ...	Ditto.
,, 5	1 Case, 109 in a diamond, G S below	Ditto ...	Ditto.
,, 5	3 Cases, Mrs Robert Hotz	Addressed ...	Ditto.
,, 5	1 Case, H A & K E in a triangle	Order ...	Ditto.
,, 5	20 Iron plates, N P, or no mark	Ditto ...	Ditto.
,, 5	91 Packages, no mark	Ditto ...	Ditto.
,, 5	1 Cask, M by N T in a diamond, S F & Co. outside.	Ditto ..	Ditto.
,, 5	1 Case, M N A by L in a diamond	Ditto ...	Ditto.
,, 5	20 Cases, S in a diamond	Ditto ...	Ditto.
,, 5	1 Case, S S by 30 in a block	Ditto ...	Ditto.
,, 5	1 Case, T A T E in a diamond	Ditto ...	Ditto.
,, 5	6 Cases, 273 in a diamond, W T H B below ...	Ditto ...	Ditto.
,, 5	1 Case, Mr. Wood-Mason	Addressed ...	Ditto.
,, 5	1 Cask, Z U R in a diamond	Order ...	Ditto.
,, 6	1 Case, E P M in a diamond	Ditto ...	Ship "Falls of Afton."
,, 6	1 Case, E P M by 2771 in a diamond, Rangoon below.	Ditto ...	Ditto.
,, 6	23 Bars flat iron, M R or no mark	Ditto ...	Ditto.
,, 6	4 Packages iron, no mark	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 15th March 1890. (3642—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 11th March 1890.

LIABILITIES.

	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office ... ... Rs. 84,81,529 12 3			
Ditto ditto at Branches ,, 1,06,95,853 12 5	1,91,77,383	8	8
Other Deposits at Head Office and Branches	2,99,21,231	10	1
Bank Post Bills, &c.	4,63,228	3	5
Sundries	7,98,988	9	9
Rupees ...	7,61,60,831	15	11

ASSETS.

	Rs.	A.	P.
Government Securities	13,64,860	0	0
Other authorized Investments	57,12,226	0	0
Loans on Government and other authorized Securities	2,07,45,474	9	9
Accounts of credit on ditto ditto	1,15,14,525	4	5
Bills discounted and purchased	1,81,05,928	1	4
Balances with other Banks	8,04,814	0	9
Bullion	7,313	9	1
Dead Stock	12,29,601	15	6
Stamps	13,222	11	0
Sundries	3,23,809	9	5
	5,98,21,775	13	3
Cash and Currency Notes at Head Office ... Rs. 64,77,592 0 11			
Cash and Currency Notes at Branches ... ... ,, 98,61,464 1 9	1,63,39,056	2	8
Rupees ...	7,61,60,831	15	11

BANK OF BENGAL,
Calcutta, 13th March 1890.

F. T LEWIS, Offg. Chief Acctt.
Rate for Demand Loans 11 per cent.
Percentage 32·4.

By order of the Directors,
W. D. CRUICKSHANK,
Secy. and Treasurer.
(3634—1)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sál beams and scantlings supplied from this depôt will be as follows:—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purpose For *Planking Sleepers, &c.*, special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division.

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates:—per four ounce tin, *Rs.* 3-14; per eight ounce tin, *Rs.* 7-4; per pound tin, *Rs.* 14. The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates:—per four ounce tin, *Rs.* 4-14; per eight ounce tin, *Rs.* 9-4; per pound tin, Rs. 17-8. This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 oz. tin, eight annas per 8 oz. tin, and twelve annas per pound tin in addition to the foregoing rates.

Receiver's Office.

TO be peremptorily sold by the Receiver, High Court, Calcutta, and Receiver to the estate of the late Baney Madhub Mitter, at his office on the third floor of the Court-house, on Wednesday, 19th March next, at the hour of one o'clock afternoon, pursuant to the order of Court, dated 26th day of August 1889, all that divided 10-48th part or share of the upper-roomed house situate at No. 37, Shovabazar Street, allotted on partition to Sreemutty Thukomonee Dossee, widow of the said Baney Madhub Mitter, and bounded on the north by Shovabazar Street; on the south and west by portions of the above premises allotted to Nittyo Lall Doss and Mone Mohun Doss; and on the west by a filled up municipal drain.

For further particulars and conditions of sale apply to the Receiver of the High Court.

J. C. MACGREGOR, Receiver, High Court.

High Court, Receiver's Office, the 25th February 1890.

(3581—3)

Currency Notes.

THE following Currency Note of the Calcutta Circle is stated to have been destroyed, and payment of its value has been claimed by the person whose name is placed against the number; any other person claiming a right to it is warned to communicate at once with the undersigned:—

Note wholly lost or destroyed.

Register number.	Number of Note.	Value.	Name of Claimant
		Rs.	
H8 of 1890	U/56 91840	100	Bhagwandas Khatri, Kooncha Sanjagi Ram, Lahore Gate, Delhi.

H. KEENE, Assistant Comptroller-General, in charge Paper Currency.

Paper Currency Department, 11th February 1890.

Destroyed.

THE Government Promissory Notes Nos. 042456, 7, and 8, and 031472 and 031473 of the 4½ per cent. loan of 1879, aggregating rupees four thousand, originally standing in the names of Bunsselall Abeer Chand, Rai Bahadoor, and the Bank of Bengal, respectively, and last endorsed to C. J. Quadrus, the proprietor, by whom they were never endorsed to any other person. Payment of the above Notes and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest, and for the issue of duplicates in favour of the proprietor after two years from date of last advertisement.

(3585—3) C. J. QUADRUS, Bhagulpore.

Wanted

AN Overseer for the Municipality of Chupra. Pay Rs. 30 per mensem, plus Rs. 10 horse allowance. A thorough knowledge of Hindi, English, and Elementary Engineering is required. Written applications with copies of certificates, if any, will be received up till the evening of the 25th March by J. A Bourdillon, Esq., Chairman.

J. A. BOURDILLON, Chairman.

Chupra, 5th March 1890. (3631—2)

Notice.

WANTED an Ameen for three months, on a salary of Rs. 30 per mensem. None need apply who has not got a thorough knowledge of practical surveying. Applications with copies of testimonials should be sent to the undersigned on or before the 25th March 1890.

B. DE., Collector.

Collector's Office, Khulna.

Notice.

WANTED a Head Assistant in the Ward's Department of this Office on a salary of Rs. 150 a month from the 1st April 1890. Applications will be received by the undersigned up to the 28th instant. None need apply who has not had special experience of work in the Ward's Department.

P. K. DAS, Personal Assistant to Commissioner.

Burdwan Commr.'s Office, the 13th March 1890.

WANTED for the survey of the area benefited by the Howrah drainage project 6 peshkars at Rs. 50, 40 amins at Rs. 20, and 40 mohurirs at Rs. 10 per month for three months. The candidates for the first two appointments must possess a thorough knowledge of the Khasrah Survey. For the peshkarship the claims of the passed students of the Seebpore or Rurki Engineering College will be preferred. For the last appointment those only need apply who can write a very good Bengali hand, and who have passed the Vernacular Examination. Apply to the undersigned without delay.

H. G. COOKE, Collector.

Hooghly, the 15th March 1890.

Road Cess Notification.

DISTRICT JESSORE.

IT is hereby notified for general information that, under section 46 of Act III of 1885, the District Board of Jessore have determined that the Road Cess for the year 1890-91 in the district shall be levied at the maximum rate, viz. at the rate of one-half of an anna on each rupee of the annual value of lands.

C. J. O'DONNELL, Chairman.

Notification.

IT is hereby notified that, under section 46 of the Local Self-Government Act III (B.C.) of 1885, the Dinagepur District Board have, at an adjourned meeting held on the 1st March 1890, determined to levy the road cess in this district, for the ensuing cess year 1890-91, at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

SETAKANT MOOKERJEE, for Chairman.

Dinagepur, District Board's Office, the 3rd March 1890.

I HAVE authorized Mr. M. Dürst to sign my firm per procuration.

Calcutta, 14th February 1890.

(3585—3) G. HERBST.

Notice.

WE have authorized Mr. T. Plieninger to sign our firm from this date.

F. W. HEILGERS & Co.

Calcutta, the 24th February 1890. (3567—3)

In the Court of the Second Subordinate Judge of 24-Pergunnahs.

EXECUTION CASE No. 37 OF 1890.

Kali Kristo Pramanick, decree-holder, *versus* Switchback Railway Company, Sealdah, members whereof are (1) Norris Griffiths, (2) Harry Etherington.

TO be peremptorily sold by the Nazir of the District Judge, 24-Pergunnahs, at the court-house, at noon, on Monday, the 14th April 1890, the following property of the debtor Company abovenamed for the realization of Rs. 1,908-6 (nineteen hundred and eight and annas six only) due to the decree-holder:—

Schedule of Property.

The Switchback Railway at Sealdah with all appertenances.

RADHA KRISHNA SEN, 2nd Subordinate Judge.

(3639—1)

Notice

IS hereby given that the zemindari dâk tax in the district of Purneah for the year 1890-91 has been sanctioned by the Commissioner of Circuit, Bhagulpore Division, at the rate of twelve annas per cent.

The amount due for the first half-year is to be paid into the District Treasury on the 1st April 1890, and that for the second half-year on the 1st September 1890.

E W. COLLIN, Officiating Magistrate.

Purneah Magistracy, the 10th March 1890.

Notice

MR. W. D. Cruickshank, Secretary and Treasurer, having been granted leave to Europe, the Directors have appointed Mr. W. Westland, Deputy Secretary, to officiate as Secretary and Treasurer from this date.

By order of the Directors,

W. D. CRUICKSHANK, Secretary and Treasurer.

Bank of Bengal, Calcutta, 17th March 1890.

(3640—1)

In the Court of Baboo Saroda Prasad Chatterjea, Roy Bahadur, Subordinate Judge of Sarun.

EXECUTION CASE No. 254 OF 1889.

Choutaria Ranmardan Sen, decree-holder, *versus* Rani Nourachh Kumari Devi and Raja Mohan Bikram Shah, judgment-debtors.

TO be sold in the above case by the Nazir of the District Judge's Court of Sarun at 12 A.M. on the 7th day of April 1890 for the satisfaction of the decree, Rs. 17,500-12—

Two annas share out of 16 annas, being the interest of judgment-debtors in mehal Ramgir Jamhouli, tappa Ramgir, pergunnah Majhowa, asli and dakhli, village Nezamat, appertaining to thana Hardi, sub-registry Bettia, bearing towji No. 709, and sudder jumma Rs. 3,883-15-4; gross produce of the whole mehal Rs. 1,09,500, and produce of the share sought to be sold is Rs. 13,687-9, out of which, deducting collection charges and village expenses and Government revenue, &c., the net produce comes to Rs. 4,470: approximate value Rs. 20,000.

SARODA PRASAD CHATTERJEA, Subordinate Judge.

(3644—1)

In the 2nd Court of the Subordinate Judge of Shahabad.

EXECUTION CASE No. 17 OF 1890.

Santi Dass, decree-holder, *versus* (1) Baboo Sheolochan Singh and (2) Baboo Rajkishore Singh, minor, through his father the said Baboo Sheolochan Singh, judgment-debtors.

TO be sold by the Nazir of the District Judge's Court, Shahabad, on the 7th April 1890, at 7 A.M., the right, title, and interest of the judgment-debtors named above in the following property for a judgment-debt of Rs. 1,322-12-6 only:—

1. Eight annas out of sixteen annas mehal Darigawon, usli with dakhli, pergunnah Sasseram, bearing towji No. 582, and paying Government revenue Rs. 3,066 under the jurisdiction of thana Sasseram and sub-registry office Sasseram.

RAKHAL CHUNDER BOSE, Subordinate Judge.

(3635—1)

In the Court of the District Judge of Pubna and Bogra.

In the matter of the petition of TROILOKYO NATH MONDOL.

TROILOKYO NATH MONDOL of Potajia, police-station Shahzadpur, district Pubna, was declared an insolvent under section 351, Civil Procedure Code, and discharged on the 5th March 1890.

(3624—1) J. F. BRADBURY, District Judge.

Notice.

Chapaguri Tea Company, Limited.

THE Share Transfer Books of the above Company will be closed from the 18th to 20th March, both days inclusive.

BEGG, DUNLOP & Co., Managing Agents.

Calcutta, the 14th March 1890. (3641—2)

In the matter of the Indian Company's Act VI of 1882 and of the Orissa Coasting Steam Navigation Company, Limited.

ALL creditors of the abovenamed Company, who have omitted to send in particulars of their respective claims, are required, on or before Tuesday, the 15th April next, to send in particulars of such claims to A. B. Miller, the Liquidator of the said Company, or if in default thereof they will be excluded from the benefit of any distribution of the assets of the Company.

A B. MILLER, Liquidator, Orissa Coasting Steam Navigation Company.

Calcutta, No. 8, Strand, the 14th March 1890.

(3636—2)

The Dehing Company, "Limited."

THE Fourteenth Annual Ordinary General Meeting of the Shareholders in this Company will be held at the Registered Office, No. 4, Clive Street, on Saturday, the 29th day of March 1890, at noon, for the purpose of receiving the Directors' Report and for the consideration of such other business as may be brought forward.

JOHN ELLIOTT & Co., Managing Agents.

Calcutta, 15th March 1890. (3648—2)

Notice.

THE DEHING COMPANY, "LIMITED."

THE Transfer Register of this Company will be closed from 17th to 31st March 1890, inclusive.

JOHN ELLIOTT & Co., Managing Agents. (3649—2)

The Mothola Company, Limited.

THE Sixteenth Annual Ordinary General Meeting of the Shareholders in this Company will be held at the Registered Office, No. 4, Clive Street, on Saturday, the 29th day of March 1890, at 11-45 A.M., for the purpose of receiving the Directors' Report, declaring a final dividend for season 1889, and for the consideration of such other business as may be brought forward.

JOHN ELLIOTT & Co., Managing Agents

Calcutta, the 15th March 1890. (3646—2

NOTICE.

The Mothola Company, "Limited."

THE Transfer Register of this Company will be closed from 17th to 31st March 1890, inclusive.

JOHN ELLIOTT, & Co., Managing Agents.

(3647—2)

Bishnath Tea Company, "Limited."

NOTICE is hereby given that the Fifty-third Half-yearly Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Monday, the 31st March 1890, at 11 o'clock A.M., for the purpose of receiving the Directors' Report, passing the accounts for the year ending 31st December 1889, and transacting such other business as may be brought before the Meeting.

The Transfer Books of the Company will be closed from the 18th to 31st instant, inclusive

By order of the Board,

WILLIAMSON, MAGOR & Co., Secretaries.

Calcutta, 18th March 1890. (3651—2)

East India Tea Company, "Limited."

NOTICE is hereby given that the Fifty-fifth Half-yearly Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Monday, the 31st March 1890, at 1 o'clock P. M., for the purpose of receiving the Directors' Report, passing the accounts for the half-year ending 31st December 1889, declaring a dividend and transacting such other business as may be brought before the Meeting.

The Transfer Books of the Company will be closed from the 18th to 31st instant, inclusive.

By order of the Board,

WILLIAMSON, MAGOR, & Co., Secretaries.

CALCUTTA, the 18th March 1890. (3652—2)

Notice.

THE Directors have made the following changes in the Bank's Establishment:—

Mr. A. M. Lindsay, Agent, Rangoon, has been appointed to officiate as Deputy Secretary.

Mr. W. Huntley to be Acting Agent at Rangoon, *vice* Mr. A. M. Lindsay.

Mr. H. K. Gordon, Accountant of Rangoon Branch, to be Acting Agent at Moulmein, *vice* Mr. Huntley.

Mr. R. L. Ker, Agent of Lahore Branch, to be Acting Agent at Delhi until further orders.

Mr. D. E. Burne, on his return from leave, to be Acting Agent at Lahore.

Mr. W. E. Hildreth, Accountant of Hyderabad Branch, to be Acting Accountant at Bombay Agency.

W. WESTLAND,
Offg. Secretary and Treasurer.

Bank of Bengal, Calcutta, 17th March 1890.

(3653—1)

Arcuttipore Tea Company, Limited.

NOTICE.

THE Adjourned Ordinary Annual General Meeting of Shareholders of the above Company will be held at the Registered Office of the Company, No. 7, Church Lane, Calcutta, at noon of Thursday, the 20th March current, for the purpose of receiving the Directors' Report, passing the Accounts to 31st December 1889, and transacting such other business as may be brought before the Meeting.

J. MACKILLICAN & Co., Secretaries.

Calcutta, 10th March 1890. (3638—1)

Holta Tea Co., Limited.

PROCEEDINGS of the Thirty-fourth Hlf-yearly General Meeting of the Shareholders, held at the Registered Office of the Company, No. 5, New China Bazar Street, Calcutta, on Saturday, the 15th March 1890, at 3 P.M.

PRESENT:

W. H. Fitze, Esq., in the Chair.

Messrs W. A. Clarke; N. J. Valetta; W. Mitchell; R. J. Bardsley; Kanti Chunder Banerjee; Poorunmal; Benani; F. A. Brown; Hon'ble L R Tottenham, Omesh Chunder Dey; Koonjo Behary Dey; E. J. King; Dabendro Lall Auddy; C. T. Wallis, by his attorney A. H. Wallis; R. R. Bayne; G. C. Farr; A. F. N. Watkins; J. Hay; J. Reid, by his attorney J. Hay; D. King; Mrs. M. M. Watkins, N. S. Watkins, Lieut-Colonel A. G. Hammond and G. T. Hennessy, by their proxy A. F. N. Watkins; Sir Charles Paul, by his proxy G. C. Farr; A. Smith; Dr. R. F. Dedrickson; J. C. Mandy; Dr. A. R. Menasse; A. Elliott and Shri Krishna Narhur, by their proxy W. H Fitze; J Paterson, A. M. Frost, J. Martin, Mrs. M. G. Stauntons H. Herbert, G. C. Hodgson, Luchmee Narain Soonee, Colonel A D. Hawes, Executor to the Estate of Colonel H. J. Hawes, Guru Prosono Ghose, Sumirmull and H. Compton, by their proxy J. Hay; T. H. Ward, W. Saise, by their proxy R. R. Bayne; R. Amos by his proxy W. Mitchell.

Mr. W. H. Fitze having been voted to the Chair, and the notice convening the Meeting having been read, the following resolutions were put to the Meeting and carried:—

1st.—Proposed by Mr. F. A. Brown and seconded by Mr. R. R. Bayne—

"That the Directors' Report for the year ending 31st December 1889, as printed and circulated, be adopted, and that the audited accounts appended thereto be passed as correct."

2nd.—Proposed by Mr. E. J. King and seconded by Mr. C. T. Wallis, by his attorney Mr A. H. Wallis—

"That a dividend at the rate of 5 per cent, or Rs. 5 per share, be declared payable on and after 31st instant, on presentation of scrip to shareholders, whose names appear on the Register on 5 h instant."

3rd.—Proposed by the Hon'ble L. R. Tottenham and seconded by Sir Charles Paul, by his proxy Mr. G. C Farr—

"That Mr. A F. N. Watkins be elected a Director."

4th.—Proposed by Mr. N. J. Valetta and seconded by Mr. W. Mitchell—

"That Mr. A. F. Simson, be re-elected Auditor."

With a vote of thanks to the Chair the Meeting terminated.

(3650—1) W H. FITZE, Chairman.

Tukvar Company, Limited.

NOTICE is hereby given that the Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Wednesday, the 19th March 1890, at 10 o'clock, A.M., for the purpose of receiving the Directors' Reports, passing the accounts for the year ending 31st December 1889, declaring a final dividend and transacting such other business as may be brought before the Meeting.

By order of the Board,
WILLIAMSON, MAGOR & Co., Secretaries

Calcutta, the 7th March 1890. (3621—2)

Notification.

TO be sold by the Registrar of the High Court, Original Side, in his sale-room in the Court-house on the 29th of March next, at 12 o'clock noon, pursuant to a decree and an order of Court made in suit No. 359 of 1881, wherein Nathunall Goleecha is plaintiff and Meer Syed Jan and others are defendants, dated, respectively, the 22nd day of August 1883 and 30th November 1889, the following properties:—

Lot 1.—All that undivided two-ninths share of the infant defendants Meer Syed Jan, Sharrafoonessa Begum, and Kammoeroonessa Begum, of and in the house and premises situated in Ruttoo Sircar's Lane in the Town of Calcutta, and numbered 2, 3, and 4, together with the like share in the land on which the same is standing now or lately, butted and bounded as follows:—on the north by the tenanted land of Prankissen Sen; on the east by the tenanted land of Brojonath Kansaree; on the south by the house No. 1, now or lately belonging to Brojonath Kansaree; and on the west by Ruttoo Sircar's Lane.

Lot 2.—All that undivided two-ninths share of the abovenamed infant defendants of and in all the putnee right and interest in talook Choorley Dhokpara, talook Dallagan, talook Khanna Ahud, talook Saktee Moorarepore, usilee and dakhillee, zillah Rangapanee, pergunnah Futtepore Singhee, thanna Purneah, touji No. 8, Collectorate of zillah Purneah, sub-registry Purneah, including the like share of and in all tollas, usilee and dakhillas.

The conditions of sale and particulars of title may be seen in the Office of the Registrar of the High Court, Original Jurisdiction, or at the Office of Mr. H. C. Chick, Attorney for the Plaintiff, on any day before the sale, and will be produced at the sale.

R. BELCHAMBERS, Registrar.

H. C. Chick, Attorney for the Plaintiff. (3632—1)

In the Court of the Second Subordinate Judge of 24-Pergunnahs.

EXECUTION CASE No 23 OF 1890.

Nundo Coomar Chatterjee, decree-holder, *vs.* Shama Shundary Dassy, Ram Chunder Shamonto and Mouroya Dassy, judgment-debtors.

TO be sold by the Nazir of the District Judge of 24-Pergunnahs, at 12 o'clock on Monday, the 14th April, the following mortgaged properties of the debtors above named for the realization of Rs. 7,918-11-3 due to the decree-holder:—

Lot No. 1.—4½ bighas, more or less, of mouroshi and mokurruri land at village Monerampore, pergunnah Calcutta, station Barrackpore, sub-registry Khurdaha, district 24-Pergunnahs, for which an annual rental of Rs. 26-14-3 is payable to Purno Chunder Ghose and Adhar Chunder Ghose, and Atarmony Dassy, guardian to minors Charu Chunder, Khirod Chunder, Panna Lal and Shubodh Chunder Ghose of Calcutta, Shambazar, Brindabon Pal's Lane, No. 2, and which is bounded on the east by Kalidash Dey and Roma Nath Dey's houses, on the north by the garden of Bireshur Dey, on the west by the houses of Jodu Nath Banerjee and others and that of Ram Chunder Pal, on the south by public road, with two-storied brick-built dwelling-house and wall, two tanks with pucca ghâts and trees standing thereon

Lot No. 2.—Zemindary named lot Hakimpore, bearing towji No. 3526 of the Collectorate of Hugli, in sub-district and thana Srirampore, pergunnah Boro, sub-registry Srirampore, district Hugli, recorded in the name of Bhogoban Chunder Shamanto, and the annual rental of which, Rs. 610-11, is payable to Hugli Collectorate.

RADHA KRISTO SEN, Subordinate Judge. (3671—1)

Notice.

List of Unclaimed Packages lying on the Custom House Wharf.

1 Revolver and 1 tin cartridges, S. B. Watts.	S.S.	"India."
1 Box cartridges, R. Warneford.	„	"Clan Macarthur."
1 Revolver, no mark (R. W. Amplith).	„	"Goorkha"
1 Revolver, no mark (S. Kuffman).	„	"Patiala."
1 Gun, 1 box shots, 1 flask shots, 1 flask powder (Cooly Emigrant Bahary).	Ship	"Moy."
3 Crates, no mark ...	S.S	"Maldah."
8 Cases, stiles ...	„	"City of Venice."
8 Cases, G. N. 668-70 ...	„	"Goa"
1 Small box, Jardine, Skinner & Co	„	"Japan."
1 Small parcel, V. Sethampara Pillay, care of E. Armstrong.	„	"Kupurthala."
2 Bottles Spirit, Kider Sing ...	„	"Moray."
1 Small bag, F. C. Cooper, 1 Mangoe Lane.	„	Ditto.
12 Bags, N. R. ...	„	"Friary."
26 Pints, no mark (Kearley) ...	„	"Japan."
1 Chest, no mark (Robert) ...	„	"Khedive."
1 Chair (broken), J. Wilson ...	„	"Shannon."
1 Chair, Hughes ...	„	Ditto.
1 Chair, Rogers	„	Ditto.
2 Chairs (broken), E. P. ...	„	Ditto.
1 Chair, no mark	„	Ditto.
1 Chair, M. J. H.	„	Ditto.
1 Chest, no mark	„	Ditto.
1 Case, T. E. Taylor ...	„	"Pekin."
1 Basket, no mark	„	Ditto.
1 Easy chair, no mark ...	„	Ditto.
1 Easy chair, Leslie ...	„	Ditto.
1 Revolver, C. Cox ...	„	"Chusan."
1 Chair, S Evans	„	Ditto.
1 Chair, Gore	„	Ditto.
1 Chair, Mrs. Thullier ...	„	Ditto.
1 Chair, Miss Sparkes ...	„	Ditto.
1 Chair, Mrs. Ellis ...	„	Ditto.
1 Chair, R. L. C. ...	„	Ditto.
1 Chair, H. B. S. ...	„	Ditto.
5 Chairs, no mark ...	„	Ditto.
1 Case, Locke, 357 ...	„	"City of Agra."
1 Case, Locke, 255 ...	„	"City of Cambridge."
1 Case, Locke, 197 ...	„	"Mira."
2 Cases, Locke, 194-5 ...	„	"Navigator."
1 Gun, Nazeer Ally ...	„	"Ethiopia."

N.B.—The above will be sold, if not cleared on or before the 16th April 1890

J. SCOBELL ARMSTRONG,
Collector of Customs.

Custom House, Calcutta, the 17th March 1890.

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of SAMUEL STEWART, an insolvent.

On Saturday, the 15th day of June 1889, by an order of this Court, the said insolvent was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in his schedule as creditors or claiming to be creditors respectively.

Insolvent in person. (3654—1)

In the matter of ROBERT JOSEPH CARBERY and ANN MARTHA CARBERY, insolvents.

On Saturday, the 1st day of March instant, by an order of this Court, the said insolvent Robert Joseph Carbery was adjudged entitled to his personal discharge under the Act XI Vic., Chapter XXI as to all persons named in the schedule of the said insolvent as creditors or claiming to be creditors respectively.

Dignam & Co., Attorneys. (3655—1)

In the matter of THOMAS BROWNING COOKSON, an insolvent.

On Saturday, the 1st day of March last, it was ordered that the Assignee do pay and divide the sum of Rs. 237-10-7 to and amongst all the creditors upon the estate of the said insolvent as a dividend at the rate of Rs. 11 per cent. upon such of the debts as are admitted in the schedule of the said insolvent, and such claims as shall be proved or substantiated to the satisfaction of the said Assignee in proportion to their several debts, with leave to the Official Assignee to apply to this Court from time to time for directions respecting any debts or any other matter or thing relating thereto.

A. B. Miller, Official Assignee. (3656—1)

In the matter of CHARLES PALMER, an insolvent.

On Saturday, the 1st day of March instant, an account of the receipts and disbursements of the Official Assignee, from the 17th day of June 1887 to the 26th day of February last, was filed in the Office of the Chief Clerk, and it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B. Miller, Official Assignee. (3657—1)

In the matter of GEORGE NICHOLAS, an insolvent.

On Saturday, the 1st day of March instant, an account of the receipts and disbursements of the Official Assignee, from the 1st day of January 1881 to the 26th day of February last, was filed in the Office of the Chief Clerk, and it was ordered that Saturday, the 19th day of April next be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B. Miller, Official Assignee. (3658—1)

In the matter of THOMAS DECRUZ, an insolvent.

On Saturday, the 1st day of March instant, an account of the receipts and disbursements of the Official Assignee, from the 4th day of March 1889 to the 26th day of February last, was filed in the Office of the Chief Clerk, and it was ordered that Saturday, the 19th day of April next, be appointed for the further hearing of this matter for the purpose of making a dividend.

☞ Any creditor or other person interested who may intend to establish or oppose any claim upon the estate of the said insolvent may attend and be heard, having given notice to the Chief Clerk three clear days before the day of hearing.

A. B Miller, Official Assignee. (3659-1)

In the matter of BEHARY LALL GUPTO, an insolvent.

On Wednesday, the 5th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3660—2)

In the matter of CHARLES EDWARD CLIVE, an insolvent.

On Wednesday, the 5th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3661—2)

In the matter of JOHN JAMES GILL, an insolvent.

On Friday, the 7th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3662—2)

In the matter of RIDKURRUN, residing at No. 49, Khungraputty, in Burra Bazar in the town of Calcutta, formerly carrying on business in co-partnership with Ram Lall as a trader in piece-goods under the name, firm, and style of Ridkurrun Sookdeo, and as commission agents under the name, style, and firm of Ram Lall Ridkurrun, and at present a broker, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Tuesday, the 18th day of February last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

H. C. Chick, Attorney. (3663—1)

In the matter of SHAIK KHAZABUKSH, of No. 14, Arpoolee Lane, in the town of Calcutta, late a dealer in miscellaneous goods, and at present without work, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Friday, the 21st day of February last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3664—1)

In the matter of BENJAMIN JACOB, of No 97, Chitpore Road in the town of Calcutta, and an assistant to the Singer Manufacturing Company, 4, Dalhousie Square, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Saturday, the 22nd day of February last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3665—1)

In the matter of KOONJO BEHARI PALIT, of No. 21, Rajah's Lane in the town of Calcutta, carrying on business at No. 87, Khangraputty in Burra Bazar in Calcutta, as a cloth merchant, under the name, style and firm of Poorno Chunder Paulit and Rakhal Dass Paulit, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Tuesday, the 25th day of February last, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

E. J. Fink, Attorney. (3666—1)

In the matter of CHARLES EDWARD CLIVE, of No. 87, Jaun Bazar Street in the town of Calcutta, late Superintendent, Agent's Office, Oudh and Rohilkund Railway, and at present out of employment, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Wednesday, the 5th day of March instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3667—1)

In the matter of BEHARY LALL GUPTO, residing at No 85, Chasadhopaparah Street, in the town of Calcutta, a clerk in the Bengal Secretariat, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Wednesday, the 5th day of March instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3668—1)

In the matter of JOHN JAMES GILL of No 31, Convent Road, Entally, in the town of Calcutta, a Government Pensioner, and at present employed in the Methodist Publishing House, Calcutta, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Friday, the 7th day of March instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

Insolvent in person. (3669—1)

In the matter of JOHN HENRY THOMAS of No. 37, Gooreamah's Lane, in the town of Calcutta, a Diver in the employ of the Port Commissioners, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Saturday, the 8th day of March instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

N. C. Burral, Attorney. (3670—1)

Chief Clerk's Office, the 18th day of March 1890.

NOTICE is hereby given that Radha Gobinda Panja, son of Ram Sankar Panja of Jalbindu, pergunnah Sabang, district Midnapore, has been declared an insolvent by this Court's order of the 8th instant, and the Nazir of this Court appointed Receiver of his property.

J. PRATT, District Judge.

Midnapore, the 14th March 1890. (3643—1)

POSTAL NOTICES.

Mails for	Date of closing at Calcutta.	Route by which despatched.
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	25th March...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets).	24th ,, ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	24th ,, ...	Ditto.
Australia, New Zealand, and Tasmania.	24th ,, .	Ditto.
Madras, Pondicherry, Ceylon, Batavia, Singapore and China.	25th ,, ...	Per French steamer *Niemen*.
Madras and Colombo ...	9th ,, ...	Per P. & O. steamer *Bengal*.
Straits, China and Japan ...	22nd ,, ...	Per str. *Kutsang*.
Rangoon and Moulmein ...	25th ,, ...	Ditto *Chanda*.
Ditto ditto ...	21st ,, ...	Ditto *Bhundara*.
Akyab, Kyaukpyu, Sandoway and Rangoon.	19th ,, ...	Ditto *Euphrates*.
Ditto ditto ...	26th ,, ..	Ditto *Madras*.

N. B.—The letter-box for inland articles (including articles for Burma and Port Blair and for Ceylon by land route) will be cleared for the last time for articles without the late-fee at 7 P.M. precisely, after which hour inland letters and papers fully prepaid and bearing an extra postage stamp of half-anna will be received up to 7-30 P.M.

On the day of despatch of the Mail for Europe, the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 8-30 P.M., and late letters and papers will be received up to 9 P.M. On other days the letter-box for foreign articles will be cleared for the last time for articles without the late-fee at 7 P.M., and foreign letters and papers fully prepaid, bearing an extra stamp of four annas, will be received up to 7-30 P.M. for despatch by any Foreign Mails despatched the same night.

E. HUTTON, Presidency Postmaster.

General Post Office, the 18th March 1890.

Unclaimed Letters held in the Calcutta General Post Office on 18th March 1890.

Daime, S.
Gold, Finch & Co.
Pirrie, J. S.
Reid, Mrs. (Wool merchant.)
Richards, L.
Secretary, Druggists Assembly.

Letters marked Care of "Post Office."

Baldwin, W. H.
Berkeley, C. M.
Bernafoom, F.
Biss, A. H.
Brown, W.
Browne, A. D.
Burnett, Mrs.
Carbery, Lady.
Cayley, H.
Charmetant, Mr.
Close, Henry.
Cooper, W.
DaRocha, B. F.
Douglas, G. P. H.
Drakeford, A.
Dymond, G. F.
Elliott, K.
Elmore, John S.
Fergusson, J. H. and Co.
Forbes, James.
Forshaw, H.
Fraiser, Miss Flo.
Francis, A. M.
Franzini, Madam.
Gantzman, Charles.
Gifford, H. J.

Letters marked Care of "Post Office."

Gillett, Capt. T. E.	Menzies, C.
Glover, W. E.	Morgan, Mrs. R.
Green, W. W.	Morshead, L.
Guillet, E.	Newby, C. R. A.
Hamilton, C. J.	O'Mealy, Capt. D'Oyly.
Hamilton, J. R.	Payne, E. H.
Handcock, J. G.	Penn, Mrs.
Hardy, Mrs. M.	Phillips, Mrs. G.
Haye, G Irvine.	Platts, Mrs. S. K.
Hewett, F. J.	Potokie, Count J.
Higgins, C. C.	Powell, F.
Horus, Miss M. L.	Prenter, Miss.
Howard, Dr. B.	Rancourt, E. deM.
Humphries, Mrs. H.	Ranken, Bayne.
Hunter, H. C.	Rennrick, F. B M.
Jackson, T.	Robertson, John.
Jôhannessen, O. C.	Robinson, G
Kennard, F.	Rodnor, W. H.
Kobus, J. D.	Rosenstern, Otto.
Lach, R.	Roskell, Richard.
Lamb, E. G.	Ross, J D
Langer, J. O.	Rubie, Phil C.
Lascelles, Hon'ble G. A.	Russell, Donald.
Laughton, F.	Rutter, Dr. G. H.
Linton, C. E.	Sano, T.
Livesey, Thomas.	Searle, F W.
Long, W.	Severtre, J.
Loos, Dr. James.	Sheumon, John.
Mackenzie, J.	Shworth, T K.
Major, A.	Taylor, C. S
Matthews, J. R.	Thomson, Captain W. A.
Mathewson, F.	Thompson, D.
Maxwell, Sir J. S.	Uphill, T
Mayes, W. H.	Ursite, Johan.
May, J. J.	Walter, F.
McAdoo, Mr.	Walter, Amherst.
McNair, Miss.	Warry, W.
McSmith, D.	Weatherels, Harry.
Menexis, Mrs. C.	Wilmer, Mrs.

Registered Letters.

Chiodetti, A.	Leonard, C. B.
Davis, W. N.	MacLeod, D. J.
Guiseppe, Celestini.	Marsland, W.
Hertzel, F.	Robert, Falstiene Kertiss.

Unclaimed Letters held in the Barrackpore Post Office on the 17th March 1890.

Browne, R. J	Haddon. A.
Buckner, J. W.	Henderson, W.
Caultet, A.	James, C. W.
Charles, Caddrine.	Kemp, G. L.
DeCrews, J C. M.	Rodrigues, A. H. or A. L.
Edwards, Rice W.	Toke, Mrs., care of Colonel Toke.
Faulkines, G. H.	
Ferguson. H. F.	Thompson, Mrs, James.
Fleescher, T.	

E. HUTTON,
Presidency Postmaster, Calcutta.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 14th March 1890.

Name of river.	Reach of river.	Least depth of water soundings.		REMARKS.
		Ft.	In.	
Bhagirati.	Entrance from Ganges ...	0	8	At mouth entrance practically closed.
	Thence to Nurpur	0	6	Modunpore.
	From Nurpur to Jungipur ...	0	7	Bangabari.
	,, Jungipur to Berhampur	0	9	Kesodanga.
	,, Berhampur to Cutwa ..	1	0	Plasi.
	,, Cutwa to Nuddea ...	2	0	Khosalpore.
Bhyrub-Jelinghi.	Entrance from Ganges ...	4	3	
	Thence to Akriganj	3	0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	3	6	Dehipore.
	Thence to Patkabari	4	0	Lalnagore.
	Patkabari to Nuddea	3	0	Gopinathpore.
Matabanga.	Entrance from Ganges ...	1	0	
	Thence to Chuypara .	0	3	Sircarpara.
	From Chuypara to Shikarpur	0	3	Prapore.
	,, Shikarpur to Boalia ...	0	3	Shampore.
	,, Boalia to Chuadanga ...	2	3	Sialpore.
	,, Chuadanga to Kissenganj and Hanakhali .	2	3	Bastopore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	REMARKS.
			A. M.	Feet	Feet.	
Ganges.	Sahebganj ..	15-3-90	6	2 00	65'31	Below zero.
	Rampore Boalia	15-3-90	11	0'20	41'79	Ditto.
	Entrance of Bhagirati	15 3 90	7	1'45	46'76	
	Entrance of Bhyrub-Jelinghi .	15-3-90	...	5'33	43 69	
	Entrance of Matabanga ...	15-3-90		2'00	....	
Bhagirati...	Berhampur ...	17-3-90	12	1'70	35'58	
Jelinghi ...	Kishnaghur ...	14-3-90	...	2'58	11'47	
	Saroopgunge ...	15-3-90	6	2'50	6'80	
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Notification.

IN modification of the Notice, dated the 7th November 1882, published in Part II, page 1686 of the *Calcutta Gazette*, the following notice is published for information :-

Notice is hereby given, that the terms for the purchase of publications from, and for all work done in, the Bengal Secretariat Press for other than Government offices or offices under the control of Government Officers, are strictly cash.

In future no publication will be supplied, of advertisement notice. &c., inserted in either or the Gazettes, except for the offices mentioned above unless the cost thereof has been remitted to the Accountant, Bengal Secretariat. In the case of insolvency notices, cash must be sent with such notices when forwarded by Mofussil courts or offices, and for those forwarded by the Official Assignee, cash must be paid on presentation of memorandum of cost by the Accountant and Treasurer, Bengal Secretariat.

Remittances in postage stamps should be accompanied by an addition of one anna in the rupee on account of discount.

R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.
The 24th February 1886.

NOTE.—Rate for advertisements in the *Calcutta Gazette*:—

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☞ Applications for Acts of the Bengal Legislative Council required on the public service should be addressed to the REGISTRAR, office of the Legislative Department, Government of Bengal, situated at No. 5 on the top floor of the Government Offices, Writers' Buildings, Calcutta.

Copies are available for purchase at MESSRS. THACKER, SPINK AND CO., Government Place, Calcutta.

Notice.

The 29th March 1886 —The subscription to, and postage for, the *Calcutta Gazette* will henceforth be at the following rates, payable in advance :—

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The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

PART III.

Acts of the Bengal Council.

GOVERNMENT OF BENGAL.

LEGISLATIVE DEPARTMENT.

[Second Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 1st February, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 4th March, 1890, is hereby published for general information :—

ACT No. II OF 1890.

An Act to amend the Bengal Vaccination Act, 1880.

WHEREAS it is expedient to amend the Bengal Vaccination Act, 1880; It is hereby enacted as follows:— Preamble.

1. This Act shall come into force from the date on which it may be published in the *Calcutta Gazette* with the assent of the Governor-General. Commencement of Act.

2. In the Preamble of the Bengal Vaccination Act, 1880, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of Preamble of Act V 1880.

3. In section one of the same Act, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of section 1 Act V, 1880.

4. (*1*) In section two of the same Act, for the definition of "Town of Calcutta" the definition "'Town of Calcutta' means Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888," shall be substituted. Amendment of definition of "Town of Calcutta."

(*2*) In the same section, add the following to the definition of 'Port of Calcutta' :— Addition to definition of "Port of Calcutta."

"or any other law for the time being in force."

(*3*) In the same section, the definition of "Suburbs of Calcutta" is hereby repealed. Repeal of definition of "Suburbs of Calcutta."

5. (*1*) All rules made and orders issued under section thirty-three of the Bengal Vaccination Act, 1880, relating to the Town of Calcutta in force immediately before the passing of this Act, shall be deemed to be in force in Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888. Rules and orders in force before passing of Act to be in force in Calcutta as defined by Act II, 1888.

(*2*) The Local Government may, from time to time, modify or cancel such rules and orders.

(*3*) And all such rules and orders relating to the Suburbs of Calcutta are hereby repealed.

CALCUTTA ;
The 10th March, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal, Legislative Department.

[Third Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 20th January, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 18th February, 1890, is hereby published for general information:—

ACT No. I OF 1890.

An Act to consolidate the Calcutta and the Suburban Police Superannuation Funds.

Preamble.

WHEREAS it is expedient to consolidate the Calcutta Police Superannuation Fund constituted under section 16 of Act IV, 1866 (the Calcutta Police Act, 1866), and the Suburban Police Superannuation Fund constituted under section 10 of Act II, 1866 (an Act to provide for the better regulation of the Police within the Suburbs of the Town of Calcutta); It is hereby enacted as follows:—

Amendment of section 16 of Act IV, 1866, and section 10 of Act II, 1866.

1. Section 16 of Act IV, 1866, and section 10 of Act II, 1866, from the words "and shall be applied" to the end of the said sections, respectively, are hereby repealed.

Consolidation of Police Superannuation Funds.

2. The Police Superannuation Funds, constituted respectively under section 16 of Act IV, 1866, and section 10 of Act II, 1866, shall be consolidated, and shall form one Police Superannuation Fund; and shall be applied from time to time to the payment of the charges, including salaries, pensions or gratuities, incurred in the control and management of the said fund, and of such superannuation or retiring allowances or gratuities as may be ordered by the Local Government at any time to any member of the Calcutta or Suburban Police Force:

Provided that any such member may be dismissed or removed without a superannuation allowance, and that no such member shall be entitled as of right to any allowance from the said Fund, or shall retain any right to a refund of any deduction made from his pay while employed as such member.

Repeal of section 17 of Act IV, 1866, and section 11 of Act II, 1866.

3. Section 17 of Act IV, 1866, and section 11 of Act II, 1866, are hereby repealed.

Proceeds from fines, &c., to be credited to Police Superannuation Fund, or such other Fund as the Local Government may direct.

4. All sums accruing from stoppages from members of the Calcutta or Suburban Police Force during absence from sickness or other cause, and fines imposed on members of such force for misconduct, and all sums accruing from fines imposed by Magistrates upon drunken persons, or for assaults upon members of such force; and all moneys arising from the sale of worn or cast-off clothing or other articles supplied for the use of the members of such force, shall be credited to the Police Superannuation Fund, or to such other Police Fund as the Local Government may, from time to time, direct.

Local Government may make rules for granting pensions and gratuities.

5. The Local Government may, from time to time, make rules to regulate the granting of pensions and gratuities out of the said Superannuation Fund.

CALCUTTA;
The 27th February, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTIFICATION No. 69Marine.

The 18th March 1890.—In the exercise of the power vested in the Local Government under section 6 of Act X of 1889 (the Indian Ports Act), and in supersession of Rules I to XV, XVII to XXI, and XXIII to XXXII of the Rules of the Port of Chittagong, sanctioned under notification, dated the 31st October 1884, the Lieutenant-Governor intends to make the following Rules for the Port and its Approaches. The rules will be taken into consideration on the expiry of one month after their first publication in the Gazette, and the Local Government will receive and consider any suggestions or observations that may be made concerning them before the expiry of that period.

J. M. McNEILE, *Colonel*, R.E.,
Secy. to the Govt. of Bengal.

Rules under clause (a).

Vessels not to move by night.

Rule I.—No vessel of the burthen of 100 tons or upwards shall enter the port or move from one place to another within the port between sunset and daybreak without the special permission of the Commissioners: provided that a vessel which has entered the port before sunset may at once proceed to a safe anchorage in any part of the port not higher than Domakhali.

Vessels not to move up on the flood or down on the ebb.

Rule II.—No vessel of the burthen of 100 tons or upwards shall steam, sail, or be towed up on the flood or down on the ebb within port limits except with the permission of the Commissioners.

River and tug steamers exempted.

Rule III.—River steamers and tug steamers having no vessels in tow are permitted to move up on the flood or down on the ebb at their own risk, and at a speed sufficient to keep the vessels under command; but in no case shall the speed exceed four miles an hour through the water.

Signal of departure to be hoisted.

Rule IV.—All vessels of the burthen of 200 tons or upwards about to leave the port shall hoist the Blue-Peter at the fore at least twenty-four hours before leaving the moorings, and shall keep it hoisted until the pilot takes charge of the vessel to take her to sea.

Vessels dropping up or down.

Rule V.—Vessels may at all times, with the previous sanction of the Commissioners, drop up or down the port with their anchors on the ground.

Rules under clause (b).

Occupation of berths on moorings.

Rule VI.—On the arrival of any ship in port, she shall be put into such moorings or take up such berth as may be appointed by the Commissioners, and she shall not be removed from such moorings or berth (except in case of emergency) without the sanction of the said Commissioners.

Anchoring of small vessels.

Rule VII.—Every vessel of a draught of 12 feet and under shall anchor on the shoal side of the river, or off town, from below the pier on the south side of the river, and from Goshaldanga to Domakhali on the eastern side of the river, and below Domakhali to Guptakhali on the northern side of the river, and keep in a line so as not to obstruct the navigation of the river in any way.

Anchoring of large vessels.

Rule VIII.—No vessel dropping up or down the river shall anchor in the fairway unless she be of heavy draught or of great length. Any vessel on the move or waiting for the tide shall sheer out of the channel and anchor as far out of the fairway as she can do without risk. No vessel shall anchor on the bars or in the fairway off the bars.

Small vessels not to anchor in the fairway.

Rule IX.—Vessels of less than 12 feet draught proceeding up or down the river are prohibited from anchoring in the fairway.

Rules under clause (c).

Vessels in port to rig in booms and, if required, to take in all boats.

Rule X.—Every vessel within the port shall rig in her jib and driver booms, and, if required to do so, swing inboard all boats hanging at the davits as soon as she has moored, and shall so retain them, unless otherwise authorized by the Commissioners. All other things projecting from a vessel's side shall also be removed if the Commissioners so require.

Rule for regulating the striking of yards and masts.

Rule XI.—From the 1st day of May until the 30th day of June and from the 1st day of October to the 15th day of November, all vessels in the port shall send down their top-gallant yards, and have mast ropes rove ready to send down their top-gallant masts at short notice on receiving instructions from the Commissioners or when the storm signals are hoisted. Vessels about to leave the port may send their top-gallant yards aloft, and rig out their jibbooms twenty-four hours before leaving moorings, provided the storm signals are not hoisted.

Rules under clause (d).

Vessels to have an anchor at the bow.

Rule XII.—Vessels lying in the stream or at the moorings shall at all times have at least one anchor at the bow, with a cable bent and ranged ready to let go. Vessels with no spare hawse pipe for cables shall have a good hawser bent ready for letting go.

Vessels to remove projections from sides.

Rule XIII.—Every ship or vessel within the port shall remove any anchor or spar, or other object projecting from her side, when ordered to do so.

Rule under clause (e).

Discharge of ballast.

Rule XIV.—No ballast shall be discharged from any ship, or landed from boats, or taken from the shore or river banks within the port and its approaches without the previous sanction of the Port Commissioners, who may appoint ballast guards to supervise the work, and no vessel shall discharge sand ballast, earth or other debris into boats without a proper shoot, of a pattern to be approved by the Port Commissioners.

Rules under clause (g).

Vessels to be moored and keep a clear hawse.

Rule XV.—Every vessel lying within the limits of the port shall be moored, and shall keep a clear hawse.

Vessels not to obstruct the passage of boats on shore.

Rule XVI.—Unless moored head and stern, no vessel within the port or in the navigable channel leading thereto shall lie close to the shore, or shall in any way obstruct the passage of boats inshore.

Vessels moored to use the bower chain for stern moorings.

Rule XVII.—Every vessel in moorings shall use her bower chain for her stern moorings, or such other chain that may be approved by the Port Commissioners, who, in case of approaching bad weather, may have the same changed or doubled at their discretion.

Rule under clause (h).

Vessels not to be moored and hawsers and warps not to be left out at night.

Rule XVIII.—Except in case of emergency, no vessel shall be moored, or unmoored, and no hawsers and warps shall be left out between sunset and daybreak, without the previous sanction of the Port Commissioners.

Rules under clause (i).

Moorings not to be occupied without Port Commissioners' permission.

Rule XIX.—No vessel shall use any of the moorings, whether fixed or swinging, without the permission of the Port Commissioners.

Application for moorings, &c., how to be made.

Rule XX.—All applications to be hauled into, or cast off from, the moorings, or for any other assistance, shall be made either personally or by letter to the Port Commissioners. Applications will, as far as possible, be complied with in order according to the date of their receipt.

Rule XXI.—No vessel of a burden exceeding 100 tons shall lie at single anchor in the port unless a pilot or assistant harbour master is on board. This rule does not apply to vessels dropping up or down.

Lying at single anchor prohibited.

Rule XXII.—Masters of vessels fouling buoys, tide gauges, or injuring any other property of the port, shall report the same to the Port Commissioners in writing without delay, stating the time and manner of the occurrence.

Masters to report injury to plant of the port

Rules under clause (k).

Rule XXIII.—No sampan, cargo-boat, or other vessel shall go alongside steam-vessels when under weigh.

Boats, &c., not to go alongside steam-vessels under weigh

Rule XXIV.—No passenger boat shall ply for hire within the limits of the Port unless licensed and registered by the Port Commissioners and under the direction of a person licensed by the Commissioners.

Passenger boats not to ply for hire within the limits of the port unless duly licensed and registered.

Rule XXV.—Every application for the licensing and registration of a passenger boat must be made in writing to the Port Commissioners, and contain particulars of the owner's name and residence, a description of the boat, and the number of passengers which it is intended to carry.

Applications for the licensing and registration of passenger boats to be made in writing to the Commissioners

Rule XXVI.—Every person requiring a license to have charge of a passenger boat shall apply for the same to the Commissioners in writing.

Persons requiring licenses to have charge of passenger boats to apply to the Commissioners

Rule XXVII.—Every license shall continue in force for one year from the date on which such license is issued, unless it is revoked under the provisions of these rules.

Licenses to continue in force for one year unless revoked.

Rule XXVIII.—No license shall be granted to any passenger boat unless the Port Commissioners are satisfied that it is in good order and suited for the accommodation of passengers The number of persons to be kept in charge of the boat, and of the passengers which may be carried therein at one time, shall be stated in the license.

No licenses to be granted to passenger boats unless they are in good condition and suited for the accommodation of passengers.

Rule XXIX.—The number of every licensed and registered boat shall be painted by the Port Commissioners on the bow thereof in letters of not less than four inches in length.

The number of every licensed and registered boat to be painted by the Commissioners on its bow.

Rule XXX.—Fees not exceeding the sums mentioned in the following schedule shall be payable for the issue, renewal, &c., of the licenses granted under these rules :—

Fees to be paid for the issue, renewal, &c, of licenses

Schedule of Charges.

	Not exceeding. Rs.	A.	P.
1. For surveying, registering, branding, and issuing license to passenger boats. For every passenger which such boat is to be licensed to carry ...	0	4	0
2. Passenger-boat-plate showing number of license, crew, and passengers, in English and vernacular	0	8	0
3 License and metal ticket for persons in charge of boats	0	4	0
4. Endorsement of change of owner on register and license	2	0	0
5. Issue of new license to boats or tickets to manjees in lieu of those defaced or lost	0	8	0

Rule XXXI.—The owner or the person in charge of any licensed passenger boat shall not permit any number of persons more than that for which such boat has been licensed to be carried therein at one time, and shall not permit such boat to ply for hire unless provided with the number of crew stated in the license.

Licensed passenger boats not to carry a larger number of persons than what they are licensed to carry at one time.

Rule XXXII.—All licensed boats shall be kept thoroughly clean.

All licensed boats to be kept thoroughly clean.

Rule XXXIII.—In the computation of the number of persons, in addition to the crew carried in any passenger boat, two children below the age of 12 years shall be counted as one person, and every two maunds weight of luggage shall be counted as equivalent to one person.

Rule to be observed in the computation of the number of persons to be carried in any passenger boat.

Rule XXXIV.—The license granted for any passenger-boat may be revoked by the Port Commissioners whenever such boat is, in their opinion, unfitted for the conveyance of passengers, or when any breach of the conditions of the license or the Port Rules, or the Sea Customs Act, has been committed by the owner or the person in charge.

Licenses granted to passenger boats may be revoked under certain circumstances

Rule XXXV.—No passenger boat shall obstruct the free navigation of the Port or the approaches to any wharf, jetty, or landing-stage.

Passenger boats not to obstruct the free navigation of the port.

Rule XXXVI.—Whenever any accident shall occur to a registered passenger boat, the person in charge, or the owner, shall at once proceed to the nearest police-station and report the circumstances connected with the accident to the officer in charge.

Accidents to registered passenger boats to be reported to the nearest police station.

Property belonging to passengers or others left in a passenger boat by mistake to be sent at once to the nearest police-station.

Rule XXXVII.—When any property belonging to passengers or others is left in a passenger boat unclaimed, the property so left shall be at once sent by the person in charge to the nearest police-station.

Persons in charge of licensed passenger boats, who may refuse to take in passengers without good reason, shall be liable to punishment.

Rule XXXVIII.—Any person in charge of a licensed passenger boat plying for hire in the port, who shall, without good reason, refuse to carry a passenger in such vessel, shall, for every such refusal, be liable to the penalty prescribed by law for breach of these rules, and shall in addition be liable to have his own license, and that of the vessel of which he is in charge, revoked.

Licensed passenger boats, when plying, to have their licenses on board

Rule XXXIX.—Every licensed passenger boat, when plying, shall have its license on board, and the license shall be produced when required.

Owners who may withdraw their boats from plying without giving 48 hours' notice to the Commissioners, and without any sufficient cause, shall be liable to punishment and to have the licenses revoked.

Rule XL.—An owner of a passenger boat who may withdraw it from plying, except for the purpose of repairs or other sufficient cause without giving 48 hours' notice to the Port Commissioners, shall, in addition to the penalty prescribed by Act X of 1889 for a breach of these rules, be liable to have the license revoked.

Every person registered under these rules to be provided with a metal license ticket, which is to be worn by him when in charge of a licensed vessel.

Rule XLI.—Every person registered under these rules shall be provided with a metal license ticket, upon which shall be legibly painted the number of his license, and every such person, when in charge of a licensed vessel, shall wear his ticket exposed to view on the arm or hung round the neck. No person without such ticket shall be in charge of any passenger boat.

When the number on any license ticket becomes obliterated or defaced, or when any ticket is lost, application is to be made to the Commissioners for a renewal of the ticket.

Rule XLII.—Whenever the number on any license ticket shall become obliterated or defaced, so that the same shall not be distinctly legible, and also when any license ticket shall have been lost or mislaid, an application shall be made to the Port Commissioners for a renewal thereof, and the Port Commissioners shall supply a new license ticket.

Tickets to be returned to the Commissioners on the expiration of the period for which they are licensed.

Rule XLIII.—On the expiration or other determination of any license, the ticket shall be returned to the Port Commissioners.

License tickets not to be lent or transferred to any person, and such tickets not to be used by unlicensed persons.

Rule XLIV.—No license ticket shall be lent or transferred to any other person, and no such ticket shall be used by any unlicensed person.

Persons in charge of registered passenger boats not to use tickets resembling the metal tickets granted under these rules.

Rule XLV.—No person in charge of any registered passenger boat plying within the limits of the port shall use, or wear, or have any ticket resembling, or intended to resemble, the metal ticket granted under the authority of these rules.

Scale of charges for hire of sampans plying between mail steamers lying at their moorings and the jetty.

Rule XLVI.—The following shall be the scale of charges for hire of licensed boats (sampans) plying between mail steamers lying at their moorings and the jetty in the port:—

For each passenger over 12 years from or to steamers during day, with baggage not exceeding 10 seers ...	1 anna.
For each passenger under 12 years during day with baggage as above	½ anna.
Luggage in excess of 10 seers	6 pies per maund or fraction of a maund

Between 7 P.M. and 6 A.M. double the above fares.

Boats not duly licensed and registered not to be used for the conveyance of goods without a special permit from the Commissioners.

Rule XLVII.—No boat not duly licensed and registered shall be used for the conveyance of goods within the limits of the port without a special permit from the Port Commissioners, and the owner or the person in charge of any boat so used shall be liable to a penalty not exceeding one hundred rupees.

Applications for the licensing and registration of cargo-boats to be made to the Commissioners.

Rule XLVIII.—Each application for the licensing and registration of a cargo-boat shall be made to the Port Commissioners in writing, and shall contain particulars of the owner's name and residence, and the tonnage of the boat.

Commissioners on receiving applications shall cause the cargo-boats to be surveyed.

Rule XLIX.—The applications will be made to the Port Commissioners, who shall cause the boats to be surveyed and satisfy themselves that they are safe.

Fees to be charged for the issue of licenses to cargo-boats.

Rule L.—The license will then be issued, and will be current for one year from the date of registration. A fee at the following rates will be charged on the issue of each license, and the same fee on its renewal every year:—

		Rs.	A.	P.
"Open or decked"	boat up to 3 tons burthen ...	1	0	0
Ditto	above 3 and not above 5 tons burthen	1	8	0
Ditto	above 5 and not above 10 tons ditto	2	0	0
Ditto	all above 10 tons burthen ...	3	0	0

Number of license to be marked on both bows of cargo-boats.

Rule LI.—The number of the license shall be branded or cut and painted in conspicuous white figures on both bows of the boat, the figures not to be less than four inches in length. The tonnage shall also be cut into boat's stern.

Licenses issued to cargo-boats to be produced when demanded.

Rule LII.—The license shall be produced whenever demanded, and should therefore be in the custody of the manjee of the boat for the time being.

Cargo-boats, the licenses of which are not produced when demanded, to be treated as unlicensed boats.

Rule LIII.—Cargo-boats, the manjees of which do not produce their licenses when called upon, will be treated as unlicensed boats, unless good cause be shown to the contrary.

Scale of crew required for cargo-boats.

Rule LIV.—No cargo-boats shall be licensed unless provided with a crew according to the following scale:—

Class I.—Square built, open or decked.

For a boat not above		10	tons burthen,			3	men, including manjee.			
,,	,,	above	10	and not above	15	tons,	4	men, including	manjee.	
,,	,,		15	,,	,,	20	,,	5	,,	,,
,,	,,		20	,,	,,	30	,,	6	,,	,,
,,	,,		30	,,	,,	40	,,	7	,,	,,
,,	,,		40	,,	,,	50	,,	8	,,	,,
,,	,,		50	,,	,,	60	,,	9	,,	,,
,,	,,		60	,,	,,	100	,,	10	,,	,,

Class II.—Ballam and other country boats.

For a boat not above		10	tons burthen,			3	men, including manjee.	
,,	,,	above	10	and not above	20	tons,	4	men, including manjee.
,,	,,		20	,,	,,	30	,,	5 ,,
,,	,,		30	,,	,,	40	,,	6 ,,
,,	,,		40 tons, 7 men, including manjee.					

License of a cargo-boat plying without a crew required under the rules shall be liable to cancelment.

Rule LV.—The license of a cargo-boat found plying contrary to the conditions of the license with a crew fewer in number than is prescribed in such license shall be liable to cancelment.

License of a cargo-boat which has become unsafe during the period of its license may be withdrawn by the Commissioners.

Rule LVI.—If any cargo-boat becomes unsafe during the term of its license, the Port Commissioners may withdraw the license until it is properly repaired.

Rules under clause (l).

Smoking and use of lights prohibited below the upper deck.

Rule LVII.—No person shall smoke or use naked lights of any description in the hold or between-decks of any vessel lying in the port. Closed lanterns burning candles, or vegetable oil, secured by lock and key, and in charge of an officer of the vessel, shall alone be taken between-decks or into the hold.

Fires permitted only in galleys within stated hours.

Rule LVIII.—Fires shall be permitted only in galleys or fire-places regularly constructed for the purpose; such fires shall be kept alight only between day-break and 9 P.M.

Obligation of vessels to be provided with fire-buckets.

Rule LIX.—With a view to the extinction of fires, all vessels in port shall be provided with three buckets for every 100 tons of registered measurement up to 600 tons, and two additional buckets for every 100 tons above 600: provided that the total number of buckets shall not be required to exceed 50 in any vessel. One-half of such buckets shall be left constantly hung up on the quarter-deck or other convenient place.

Measures to be taken by vessels on the occurrence of a fire.

Rule LX.—When fire has broken out in any vessel, the officers in charge of all vessels in neighbouring moorings or anchorages shall furl their awnings, get their force-pumps ready for use, and prepare for slipping their cables and chains, seeing specially that the pins of the shackles can be immediately knocked out.

Rules under clause (m).

Light to be carried by vessels at anchor.

Rule LXI.—All vessels anchored or moored in the stream, within the port and its approaches, shall exhibit between sunset and sunrise, where it can be best seen, but at a height not exceeding 20 feet above the hull of the vessel, a white light in a globular lantern of eight inches in diameter, and so constructed as to show a clear, uniform, and unbroken light, visible all round the horizon, at a distance of one mile. Vessels under weigh at night shall show the lights prescribed by the Board of Trade Regulations.

Lights to be carried by boats under weigh at night.

Rule LXII.—All cargo-boats, sampans, budgerows, up-country boats and passenger boats of every description when under weigh after dark within the port shall carry a white light in a lantern in the forepart of the vessel, where it can be distinctly seen.

Signals for police.

Rule LXIII.—In the event of the police being required on board a vessel within the port, the following signals shall be used :—

Day-signal.—Jack to be hoisted underneath ensign at the gaff peak.

Night-signal.—Two red globular lamps to be hoisted in a vertical line from the gaff peak.

Rules under clause (n).

Crew to be maintained in vessels anchored or moored

Rule LXIV.—Vessels moored or anchored in the river shall keep on board a crew not less than the following scale according to their tonnage set forth below, viz. :—

Vessels of 100 tons and under	...	...	... 3 men.
„ of 100 to 199 tons	...	...	... 4 „
„ of 200 „ 299 „	...	...	... 5 „
„ of 300 „ 499 „	...	...	... 6 „
„ of 500 „ 699 „	...	...	... 7 „
„ of 700 „ 1,000 „	...	...	... 10 „
and for every additional 200 tons	...	...	... 1 man.

In the case of a vessel of under 700 tons, one of the above number shall be the serang or tindal, and in the case of other vessels one of the number shall be an officer.

Rule under clause (o).

European seamen and apprentices not to be required to work in the sun during the hot hours of the day.

Rule LXV.—During the months of April to October, no European seaman or apprentice shall be employed during the hot hours of the day upon work necessitating direct exposure to the sun.

[REGISTERED No. 29.]

No. 12 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

OFFICIAL PAPERS.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 1st March, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding.*
The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General.*
The HON'BLE F. B. PEACOCK.
The HON'BLE P. NOLAN.
The HON'BLE T. T. ALLEN.
The HON'BLE SIR HENRY HARRISON, KT.
The HON'BLE SIR ALFRED CROFT, K.C.I.E.
The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.
The HON'BLE C. H. MOORE.
The HON'BLE H. PRATT.
The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.
The HON'BLE DR. RASH BEHARY GHOSE.

CALCUTTA PORT BILL.

The Hon'ble SIR HENRY HARRISON moved that the clauses of the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port, be further considered for settlement in the form recommended by the Select Committee.

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved for leave to withdraw the motion which he had laid before the Council at the last meeting, namely, that the following proviso be added to section 96 of the Bill:—

'Provided that any order made and published under this section which shall have the effect of rendering it unlawful to land or ship any goods out of, or into, any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.'

He said:—"As the discussion will take place on the wording of the new clause on the notice paper, I shall say very little in asking His Honour the President to put this motion to the Council. Following the course of the last discussion, and acting also upon a concession made by my hon'ble friend Mr. Moore, I ask leave to withdraw the amendment then proposed, in order to embody in a revised amendment the concession which has been made as well as a suggestion thrown out by the hon'ble and learned Advocate-General. For this reason, it would be better if the former amendment be allowed to be withdrawn, and the opinion of the Council taken upon the revised amendment."

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON then moved that, in line 14 of section 96 of the Bill, after the word 'way' the words 'and with the same sanction' be inserted.

He said:—"This amendment is hardly more than a formal one. At present, orders under section 96 can only be passed under the authority of the Government; but the Government having once passed an order declaring a wharf open, it is left to the Port Commissioners to pass the subsequent order prohibiting the use of any other wharf. There seems to be no objection to accept the wish of the Chamber of Commerce, that the same sanction be required for closing a wharf as is required for declaring a wharf open."

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved that, between sections 96 and 97 of the Bill, the following section be inserted:—

'96A. Whenever any order made and published under sections ninety-four and ninety-six shall have the effect of rendering it unlawful to land or ship any goods out of, or into, any vessel at any wharf, quay, stage, jetty or pier lawfully made, erected, or fixed by any person for the convenience of private traffic, or to which a prescriptive right may have been acquired by possession of sixty years or upwards, such person, his representatives or assigns, shall be entitled to institute a civil suit for the award of compensation to him for the injury caused by the order hereinbefore mentioned:

'Provided that, in awarding such compensation, the Court shall not take into consideration any tolls, dues, rates or charges which the aforesaid person claiming compensation shall be liable to pay for using the wharf, quay, stage, jetty or pier provided by the Commissioners for public use:

'Provided also that it shall be lawful for the Commissioners, in lieu of closing any wharf, quay, stage, jetty or pier under either of the said sections, to allow the continued use thereof on payment of such scale of tolls, dues, rates and charges as may be agreed upon between the owner thereof and the Commissioners.'

He said:—"This amendment is in the form of a new section to be inserted at the end of section 96. First, I should say that the right to institute a suit for the award of compensation is now proposed to be applied to section 94 as well as to section 96. The only reason why the section was not originally proposed in that form was, that the persons who put forward the objection to section 96 did

not extend their objection to section 94; and, naturally enough, the proposal took the form in which the objection was made by those who pressed it.

"In the wording of the earlier part of the new section, it has been deemed advisable to follow more closely the wording of the amendment to section 85, which the Council have accepted.

"In our last meeting, the Hon'ble Mr. Moore, on behalf of those whom he represents, stated that the objection to charging the owners of wharves fees or rates, and not giving them compensation for any fees which they may be, in the future, bound to pay, would be abandoned. I assume that some members of this Council would entertain serious objections to any possibility of compensation being given for future fees; and it is, therefore, desirable to avail ourselves of that concession, and to formally embody in the new section a proviso to the effect that, the Court is not to take into consideration any tolls, dues, rates or charges which the owner of the wharf, pier or jetty would become liable to pay in consequence of the closure of the wharf. It is, on the other hand, obviously intended that all other legal injury which such person may suffer should be taken into consideration.

"Again, the learned Advocate-General pointed out at our last meeting that the very best way of dealing with these wharves or jetties in general would be not to destroy or close them, but to allow them to be used on payment of a sufficient sum in lieu of the tolls, dues and charges to be paid for the use of the wharves or jetties of the Commissioners. I have ascertained that the only reason why the Port Commissioners have not followed this course is, because they thought they had not the power to do so, and that it is the course they would prefer to follow; that is to say, if a private jetty comes in competition with the working of one of their wharves, they would prefer, instead of closing it, to say—here is your own wharf which you have constructed along with the necessary appliances, and therefore you ought to pay us something less than what we are entitled to charge for the use of wharves erected by us and the appliances provided by us. At the same time, as the tolls charged on jetties are not solely on account of the mere work of landing, but also in part defray the general expenses which, as trustees of the Port, we must incur to maintain the Port and the river in a navigable condition, therefore it is not fair that you should use your jetties free of all payment of tolls. So far from the Port Commissioners raising any objection to this proposal, I find that they consider it the very best and most convenient way of dealing with the matter. I therefore propose to enact clearly in the new section that, the payment of tolls in such cases may be a matter of agreement between the two parties.

"Obviously, we might have gone further and have made it obligatory on the Port Commissioners to do this, and I am not aware that the Commissioners would raise any violent objection to its being made obligatory; but there are some difficulties in the way of this, and practically the Port Trust will be very willing to work on this system: and as by the constitution of the new Commission the Chamber of Commerce will be largely represented, I think we may fairly rely on the reason and good sense of the Commissioners to work the section in a satisfactory and harmonious manner. I should therefore prefer framing the section in this optional manner.

"As regards the general form of the amendment, after thinking over all the objections which have been raised, I think the Council may, without any unreasonable apprehension as regards the consequences, adopt this amendment. The Port Commissioners themselves are unanimously in favour of going at least as far as this: many of them would be disposed to go further. The question was brought up at the last meeting of the Commissioners, and I am authorised to say that they are unanimously in favour of the section as far as it goes, though all do not think that it goes far enough, and have no grounds to apprehend any inconvenience resulting therefrom. I do not say that the Legislature is bound, in a matter of this kind, to follow the opinion of the Port Commissioners; they are bound to think for themselves, and to insert in this law what they think right and proper in every respect. Still, though it is our duty to think for ourselves and not to adopt anything which we think wrong in principle, we cannot but allow weight to the fact that those most intimately concerned in the matter see no grounds to anticipate danger to their finances.

"Again, if the provisions of section 106 of the Bill are borne in mind, I think the Council will consider that there can be no practical danger of injury to the interests of the Port. By that section the Government has power, in the event of the income of the Port being insufficient, to require the Commissioners to introduce a scale of tolls on all goods landed anywhere in the port over and above what is charged on goods landed or shipped at any dock, wharf, &c., belonging to the Commissioners. So that in case of any deficiency arising in the income of the Port Trust, there is reserved a power, which never has been exercised, and, I believe, never will be, of imposing an additional scale of duties on all goods landed or shipped, whether on private wharves or on the Commissioners' wharves, or at the ship's sides in boats, or on the banks of the river. With such a power, I do not think it is possible to suppose that, the financial security of the Port can be jeopardised by passing a section such as is now proposed.

"It should, however, be pointed out to the Commissioners that if they exercise the power vested in them by the last clause of the amendment, they must be careful at the same time to make it clear in the agreement with the owner of the private wharf that, in the event of the Government exercising the power conferred upon it by section 106 of requiring tolls to be paid on *all* goods, the owner of the wharf will have to pay such tolls in addition to the rate agreed to be paid to the Commissioners for permitting the use of the wharf. Inasmuch as it is in the hands of the Commissioners in framing the agreement to secure the future payment of tolls under section 106 in addition to the rates agreed upon, it only requires due care on the part of the Commissioners, and it is unnecessary to propose any amendment upon section 106. I therefore move the amendment to section 96."

The Hon'ble MR. ALLEN said:—"The section which has now come before the Council proceeds on the assumption of the right of the Port Commissioners to a monopoly of the tolls, and is entirely free from the objection which appeared to me to militate against the amendment proposed on the last occasion; and to that extent I have no possible objection to it. But, as I said on a former occasion, to my mind the whole amendment is void of any practical importance under present conditions, and I have therefore had considerable doubt whether I ought to make any remark on the present amendment. I entertain the same opinion as I did before, as to the unlikelihood of its ever being brought into operation. But even as a piece of theoretical fancy legislation, it appears to me that if I allow the Council to remain in ignorance of the objections of a legal nature which appear to me to arise, I shall be wanting in the duty expected from my office. And therefore I shall say a few words on the matter.

"A suggestion was thrown out by the hon'ble member on my left (Mr. Nolan) on the last occasion that, if the restriction, imposed under section 96 of the Bill, is to entitle the owner of a private wharf to receive compensation for the loss he sustains in respect of inland traffic, there is no reason why owners of wharves for sea-borne traffic should not be compensated when subjected to the similar restriction under section 94. It appears to me that the gentlemen who brought forward this objection have entirely forgotten the existence of a law, which makes an essential difference between sea-borne traffic and inland traffic. The proposal has a sort of superficial plausibility about it; but on referring to the Sea Customs Act, I think this plausibility will disappear.

"It may be roughly said that, every person who has water frontage is entitled to use his land for the purpose of loading and unloading vessels and boats which are engaged in the inland trade within the country, and to deprive him of that right, is to prevent him from utilising his land to the best advantage. Can that be said with reference to sea-borne traffic? Certainly not. In India, and in every civilised country which possesses a Custom House, the whole coast is surrounded by a legal wall, and the owner of land on the seashore who attempts to use his land for the purpose of landing or shipping seaborne goods, exposes himself under section 167, Act VIII, 1878, to a fine of Rs. 1,000 for every such attempt, and the confiscation of his goods. A man may own 100 miles of the sea frontage and not be able to use a single yard for this purpose. This at once marks a difference between seaborne and inland traffic. It is only

within an established port that seaborne goods can be landed. The ports are the gates in that legal wall—the only legitimate entrance through which foreign goods may be brought into the country.

"But even within the port itself, ownership of a river frontage gives no right to establish a wharf. The establishment of wharves for seaborne goods is in the Local Government Section 11 of Act VIII of 1878 provides that, the Local Government may, from time to time, declare the limits of their ports, appoint proper places therein to be wharves for landing and shipping of goods, &c.; while section 73 forbids the landing of goods at any place other than a wharf duly appointed.

"It therefore appears that the only legitimate places within a port at which seaborne goods can be landed are, wharves which the Government has appointed; and, consequently, there can be no such right in any one to be compensated for a restrictive order under section 94, as there might be for a restriction imposed under section 96: and it was no doubt the knowledge of this essential difference, and not mere inadvertence, that caused the memorial of the commercial gentlemen to omit all allusion to section 94 and confine their claim to the restriction of section 96. Section 94 says that, when a sufficient number of docks, wharves, &c., shall have been erected for the landing and shipment of goods of all sea-going vessels resorting to the port, an order may be passed that, without the express sanction of the Commissioners, no goods shall be landed or shipped from any sea-going vessel within the port, save at such wharves, &c.; that is, a general order may be passed applicable to all ships.

"But section 92 makes a similar provision for a special order to each particular ship. It says:—It shall be lawful for the Commissioners to require the Conservator of the port from time to time when there shall be room at such dock, wharf, &c., to order to come alongside of such dock, &c., for the purpose of being laden or unladen any sea-going vessel which shall not have commenced to discharge or take in goods. If section 94 is to be put into this amendment, why not section 92? Section 92 enables you to issue a particular order against any particular ship, and section 94 provides for the issue of a general order regarding all ships. They are exactly on the same footing. A series of special orders to each ship as it arrives will have the same result, as a general order to all ships. If the amendment proposed entails any consequences to evade it, all the Commissioners have to do is, in each case to take particular action under section 92. I think, therefore, that we should either omit the reference to section 94, or section 92 should be added in this amendment. If this last be done, what will the position be? Shall the Port Commissioners, whenever they issue orders to bring a ship to their wharf under section 92, be obliged in each case to send round to the persons who own private wharves, if any such there be, and settle with each man the proportion he shall receive as compensation with respect to his particular wharf or jetty for the ship thus withdrawn from the public wharf? It would be much wiser to limit the amendment, so as to apply only to restrictions issued under section 96.

"Then comes another point, namely, that inasmuch as the private right to tolls is given up and the structure is to be allowed to stand, what is there remaining to compensate? The first two paragraphs of the section seem practically reduced to a nullity, and the only part of this proposed section that can operate will be the last paragraph. If the amending section is cut down to that, I have no objection. I should go farther, and am prepared to say that, any person having a private wharf shall be entitled to continue to use it on paying the tolls to which goods landed at the public wharves are liable."

The Hon'ble MR. NOLAN said:—"I had not intended to say anything upon the present motion, as it was discussed at some length in another form at our last meeting; but, perhaps, I may be expected to make some reply to what has fallen from the last speaker as to the injustice of giving compensation to the owners of wharves for sea-going vessels. We all gladly recognise the propriety of the course adopted by the hon'ble member who is also the Remembrancer for Legal Affairs, in indicating objections founded on the existing law; and, in this instance, I only regret that he did not raise the point at an earlier period of the discussion, when we were engaged in examining section 85 of the Bill, which makes no distinction between wharves for

sea-going and wharves for river vessels. In the present instance, he states that river-frontage carries with it, *primâ facie*, the right to land goods brought from the interior, and deprivation of this right may properly be the subject of compensation; but that no one has any right, under the Sea Customs Act, to land sea-borne goods except at places specified under section 85 of that Act, and that, therefore, there can be no right to compensation. As far as I can make out, the section quoted, applies equally to landing from river vessels. The hon'ble member intimates dissent from this view, and no doubt he is better informed; but the matter is of little consequence, inasmuch as wharves for inland trade, whether they can be closed under the Indian Customs Tariff Act or not, can undoubtedly be closed under the Port Commissioners' Act, 1870. They are thus held on sufferance precisely as are the wharves for sea-going vessels, and no real distinction exists. In both cases the use of the river bank is subject to such conditions as the Legislature may, from time to time, impose.

"It is true that we should not give compensation for a wharf to a person who, under the Sea Customs Act, has no title to use it, and that is not proposed; but we are considering the case of those who have been, or may hereafter be, allowed under that Act to establish wharves, and in regard to them, there is no reason why they should be refused compensation for real loss occasioned by the orders of the Port Commissioners. Calcutta is not only a place of trade, but also a manufacturing town; and at many of the factories, it is really necessary that goods should be landed. These may come, as jute commonly does, by river, or as coal, by sea; in either case, it is often convenient to effect the landing on the premises. I see no reason why the wharves legally appointed under the Sea Customs Act for landing coal should be refused protection because the town is a port, and therefore a place in which it is of special importance that all commercial interests should be jealously guarded."

The Hon'ble Mr. Moore said:—"I support this amendment, but I have no further arguments to adduce in regard to it. As, however, I sincerely trust this will be the last opportunity I shall have of making a speech regarding the Port Bill, I am anxious to correct one or two errors that have arisen in the course of the discussion. The first was a slight one made by the Hon'ble Sir Charles Paul, in stating that I merely represented a small class of interested individuals, and not the commercial community at large; whereas I have been speaking on behalf of the Chamber of Commerce through its Committee, which is specially elected to include the whole community of commerce, and the memorial of the Chamber was unanimously adopted by that Committee. It is not only certain jute mills and such industries which are concerned and interested, and this is shown by the memorials submitted by other bodies and private persons, such as Mr. John Stalkart. On some occasions, however, I do find difficulty in defining whether I am speaking for myself only or for those I represent, and it arises in the Hon'ble Sir Henry Harrison's remarks regarding the concession made by the Chamber in withdrawing any claim under this section to compensation for payment of future tolls, &c. Now, as a matter of fact, I never specially put this point to the Chamber, but holding the opinion myself that such compensation should not be included, I never intended in the original amendment I drew that it should appear, and so was quite willing that a distinct provision debarring it should be made; but I may add this, that though I did not specially obtain the opinion of the Chamber on the subject, I may, I think, guarantee that they will support the action that I have taken.

"In regard to the Hon'ble Mr. Allen's suggestion, that the final clause in the amendment under discussion should be made more binding, I think it might be imposing an inconvenient restriction on the Commissioners; and that, therefore, it had better be left in its present optional form than made obligatory.

"There is a very prevalent error abroad that, the enactment of this Bill and the special attention paid to sections 85 and 96, heralds a concerted plan to attack all down the line, and carry by assault every bit of private property on the banks of the Hooghly from the Jubilee Bridge to Diamond Harbour. Of course it is known to this Council, but it is well it should be thoroughly understood outside, that the Bill was merely introduced to consolidate, for convenience sake, the various Bills governing the port; and proof that the impression mentioned is devoid of foundation is found in the fact that, had the

Commissioners or Government contemplated such a thing, they would have done it under the old Act which gives them full powers, and before a re-enactment took place, which in all possibility, (if not a certainty) might be changed as it has been to modify those powers.

"In conclusion, I wish to correct another error. It has in many quarters been thought that over these sections the Government has been distinctly obstructive, and in opposition to the views and principles held by commercial people on the commercial aspect of the question. I am very glad to publicly state that this is not my experience in the close connection I have had with this long discussion; and to acknowledge that, on the contrary, conciliation, which the Hon'ble Sir Henry Harrison recently claimed had been shown, is a correct description of the attitude Government has taken up in the matter. The error probably arises from the long delay that has preceded its settlement, which is easily explained. The views of those personally interested are naturally uppermost in their minds, but it takes long to engraft new views on the minds of others who, like Government officials, are not personally interested; and it would plainly not be right for these latter to hastily accept principles impressed upon them before being convinced that they are correct. That the desire to meet those interested has been shown, is testified to in the many modifications made in the sections under allusion by the member in charge of the Bill, each of which nearly has followed representations made and points urged from my side of the question, culminating in the final amendment now before us, which I hope will be carried and close this long debate."

The Hon'ble Dr. Rash Behary Ghose said:—"I also support the amendment which has been proposed, and in doing so, I am bound to say that I am unable to accept a great deal of what has fallen from the Hon'ble Mr. Allen. The right of a riparian owner of using his property as a wharf for the loading and unloading of his goods has been recognised as a very valuable kind of private property. The question was elaborately discussed in the well-known case of Lyon *versus* the Fishmongers Company. The whole matter was there thoroughly discussed and the House of Lords came unanimously to the conclusion —and they are not always unanimous—that the right of a riparian owner to access to the river is a private right, and when it is interfered with, compensation ought to be given to the injured owner. The question was also discussed in a very recent case which came before the Privy Council on appeal, and their lordships were of opinion that, according to the French law which prevails in Lower Canada, a riparian owner has the same rights as the House of Lords in the case of Lyon *versus* the Fishmongers Company decided that such an owner had under English law. That being the French and the English law on the subject, we may take it for granted that, there can be no question of the existence of such rights.

"But it is said by the Hon'ble Mr. Allen, that the Sea Customs Act says nothing about any compensation. I have not had time to examine the Customs Act, but all I can say in answer to the objection founded on the absence of any clause for compensation is, that if it is not there it ought to be there. It is the old old argument that, you are now going to give compensation to private owners for the first time, although the Legislature has refused to recognise any such right ever since the year 1866, when power was given to the Justices of the Peace to take away private property without giving any compensation to the owner.

"It was said by the Hon'ble Mr. Allen on the last occasion that, in refusing to give any compensation, we are only following the lines on which the Indian Legislature has proceeded in other cases. Now, I confess, I should be extremely sorry to think that our Legislature has proceeded on a different basis from that on which all civilized Legislatures during the present century have proceeded in these matters. [Mr. Allen:—"My argument was, that legislation had taken place before the wharves came into existence; they were subject to that legislation."] I beg the hon'ble member's pardon if I have misunderstood him. I was referring to what the hon'ble member said with regard to private ferries. Unless I am very much mistaken, it was said by the Hon'ble Mr. Allen that when the Government established a public ferry, although it might be done to the injury of the owner of a neighbouring private ferry, he was not entitled to any compensation. Now, turning to the present Ferries Act, I of

1885, section 17, I find it says—'Claims for compensation for any loss sustained by any person in consequence of a private ferry being taken possession of, or a new public ferry or subsidiary ferry, being established under section 6 or section 11, shall be enquired into by the Magistrate of the district in which such ferry is situated, who shall, with the approval of the Commissioner, award compensation to any person who may appear justly entitled thereto.' Then the section goes on to prescribe the mode in which compensation should be settled in such cases.

"It has been said that if compensation is given to persons who may be affected by the exercise of the power which is conferred on the Commissioners by section 94, we ought also to give compensation in the cases referred to in section 92. Now my answer to that objection is this, that section 92 does not directly affect any private property. It may be said, and it has been said, that although section 92 does not directly affect private property, it may indirectly do so. But the answer to that is, that the law does not allow compensation when the injury for which compensation is claimed is too remote. You can only give compensation where the injury is directly caused by the exercise of a particular power. It would open a very wide door, indeed, to all manner of claims for compensation if it was to be given for any injury, however indirect, however remote, which might be caused by the doing of a particular act. I accept the amendment which has been moved by the Hon'ble Sir Henry Harrison, because, I think, it embodies a principle to which, I think, no real exception can be taken; and it is certainly, as has been already pointed out, not open to the objections taken to the previous amendment.

"Before I sit down, I must beg to say a few words on some remarks which I know have been made with regard to the present measure. The Hon'ble Mr. Moore has told us of the somewhat unnecessary alarm which the appearance of this Bill created in the mercantile community; but the way in which their representations have been met, ought to satisfy them that their fears were groundless. But our attitude of conciliation has, I regret, given rise to some hostile criticism. It has been said in certain quarters that, we have weakly yielded to the clamour of an interested party. Now that is, we all know, only a rhetorical mode of saying we do not approve of your action. But what do these gentlemen really mean by saying, that we have weakly yielded to the clamour of an interested faction? Do they mean to say that when persons come before us with a grievance and represent that grievance to us, we should tell them we cannot listen to you, because you represent an interested party? You must send some person who has no interest in the matter to represent your grievance to us.

"Then, about the clamour. Do these gentlemen mean to say that, when persons with a grievance come before us, they should be told to speak with bated breath and whispering humbleness that they have no right to appeal to the public press in a spirit of fairness, or to go to counsel for opinion as to their own rights? Surely, we cannot do anything of the kind.

"Then, as regards our too weakly yielding to clamour. Do our critics mean to say that, although we may be satisfied that a grievance really exists, we must not make any concession because it would be weakly yielding to those who complain of the grievance? Well, if to concede what one believes according to his lights to be right and proper is weakness, I must confess that I share that weakness. And I do not at all envy the man who would not do what is shown or proved to be right, simply because it would be yielding or conceding what he was not at first prepared to concede. The question, therefore, is one simply of principle; and as I understand the matter, we are now generally agreed that, the owner of property who may be injured by the exercise of the powers conferred by this Act is entitled to compensation. Partial evil may possibly be universal good, but it will be small comfort to a private owner whose property is taken away to be told that, what is lost by him is gained by the public.

"On this point, I shall venture to read a passage from the Judgment of Lord Bramwell in the Hammersmith and City Railway Company *versus* Brand, which, I think, is very much to the point. The noble and learned lord says:—

'It is said that the railway and the working of it are for the public benefit, and therefore the damage must be done and be uncompensated. Admitting that the damage must be

done for the public benefit, that is no reason why it should be uncompensated. It is to be remembered that that compensation comes from the public which gets the benefit. It comes directly from those who do the damage, but ultimately from the public in the fares they pay. If the fares will not pay for this damage and a fair profit on the Company's capital, the speculation is a losing one, as all the gain does not pay all the loss and leave a fair profit. Either, therefore, the railway ought not to be made, or the damage may well be paid for. But further, though if it were the law and practice to do individuals a damage for the benefit of the public without compensation, no one in particular could complain when it happened to him, as everyone would know that he held his property subject to being deprived of it or having it injured when it suited the public; still such a law and practice would be highly inconvenient and mischievous.'

"But I have another and perhaps still higher authority. One of the greatest names in English jurisprudence, Jeremy Bentham, who, I believe, was the first to preach the gospel of Beccaria in England, and who cannot be suspected of any predilection for private rights when they come into competition with public rights in his theory of legislation; in speaking of the suppression of pensions and places without indemnity to the possessors, says:—

'The interest of individuals, it is said, ought to yield to the public interest. But what does that mean? Is not one individual as much a part of the public as another? This public interest which you introduce as a person is only an abstract term, but it represents nothing but the mass of individual interests. It is necessary to take them all into account, instead of considering some as all and the others as nothing. If it is a good thing to sacrifice the fortune of one individual to augment that of others, it will be yet better to sacrifice a second, a third, a hundred, a thousand, an unlimited number; for whatever may be the number of those you have sacrificed, you will always have the same reason to add one more. In one word, the interest of everybody is sacred, or the interest of nobody.'

"Then, he says:—

'Individual interests are the only real interests. Take care of the individuals; never molest them, never suffer any one to molest them, and you will have done enough for the public.'

"I refer to these authorities because a principle which one would have thought would never be seriously disputed, has been hotly disputed—if not by any of the hon'ble members here, at least by a portion of the outside public—and that is my only apology for troubling the Council with these authorities."

The Hon'ble Sir Charles Paul said:—"As all parties are more or less agreed on this present amendment I do not propose to prolong the discussion. I shall only say a very few words. I believe there is a distinction between the cases falling under section 94 and the cases falling under section 96, as pointed out by the Hon'ble Mr. Allen. But I do not think that, assuming there is a distinction between the sections, his objections dispose of the matter under consideration. The amendment proposed is, that if any order under section 94 affects a private person, he shall be entitled to compensation. If it be supposed that an order of this kind has no effect, it follows there will be no compensation. I think that is a sufficient answer to that objection.

"The Hon'ble Mr. Moore corrected me of an error into which, he says, I fell on the last occasion. If I committed an error I am glad to be corrected; but I must say in self-defence that I did not intend to deny, question, or restrict the extensive representation which is centred in himself. But what I did say was, that in reference to compensation under section 96, the claim to compensation was being urged by the Hon'ble Mr. Moore, representing a very small number of people, namely, those who had jetties and wharves on the river banks for landing goods for their own purposes. That is all I intended to say. I am quite aware that he represents a very large section of the community, and it would not be fair of me to say anything derogatory of the high position which he fills in this Council. I am glad that he thinks we have arrived at a result which is entirely satisfactory to him and to those whom he represents. That must be a consolation also to other members of Council on this occasion. I think it eminently satisfactory that the labours of this Council have resulted in reducing propositions which embraced,

what I may call for want of a better word, lawless elements into one or more propositions composed of lawful conditions."

The Hon'ble SIR HENRY HARRISON said in reply:—"As regards the necessity of applying the new section 96A to section 94, the Hon'ble Sir Charles Paul has just said, in far better language than I could have done, precisely what I wanted to say, namely, that although the Hon'ble Mr. Allen's argument is valid to a certain extent, it is not sufficiently valid to make it right and proper to exclude section 94. As regards section 92, I think an insufficient case has been made out, because that is the section under which the Commissioners can make a particular order with regard to a particular vessel when it has not commenced discharging cargo, and it is obviously for the purpose of regulating the traffic. It is obviously proper for the Commissioners to say we are now ready for a particular ship, and it must be brought to our jetty and not taken to a private jetty to which it might have otherwise gone. That is very different from saying, that for all time the use of your jetty is closed.

"As regards making the last clause of the section obligatory, I have considered the matter carefully, and I think it would be inconvenient to do so. If we had done so, the owner would have had to pay the full tolls, which in some cases would be more than the Commissioners would wish him to do. They would wish to charge something less than the ordinary amount of tolls to compensate the owner for having put up the jetty, and using his own appliances and labour; and, therefore, it would not be fair to ask from him the same amount of tolls which would be paid by others who used the Commissioners' wharves and jetties.

"In conclusion, I must thank the Hon'ble Mr. Moore for what he has been so good to say, as regards the attitude of the Council in dealing with this matter. It is very discouraging to see that such extraordinary misapprehensions can gather force, especially when, as in this instance, the community which, we are informed labours under this misapprehension, is undoubtedly one of the most intelligent communities in India. Is it conceivable that the Bengal Legislative Council could consciously be indifferent to one of the most important interests in the country? Knowing, as the Council does, that the entire welfare of Calcutta, and in a large measure the welfare of Bengal, is bound up with the success of its commerce and trade, is it possible that they should wish to inaugurate a régime of hostile legislation? Now that we apparently have arrived at a satisfactory conclusion, I am bound to say that it is in a great measure due to our singularly good fortune in having to deal with the gentleman who represents in this Council the interests of the commerce of the port, and who has known so well how to reconcile the duty he owes to the interests which he represents, with that courtesy and conciliatory attitude which make the work of those who have to treat with him so much easier than it might otherwise have been."

The Motion was put and agreed to.

SUSPENSION OF RULES.

The Hon'ble SIR HENRY HARRISON also applied to the President for the suspension of Rules.

He said:—"After the satisfactory result at which we have just arrived, I think I may fairly be permitted to ask Your Honour to allow the Rules to be suspended, for the purpose of passing this measure at this meeting of the Council. Although it is undoubtedly true that we have had three very important and useful discussions on one feature of the Bill, yet, I may say, on the one hand that, after the unanimous result which has been attained, so far as the discussion to-day is concerned, no one can say that we are proceeding with undue haste in giving it immediate effect by passing the Bill to-day; on the other hand, this measure, though a very large one, has, as regards all its other proposals and changes, received no opposition whatever. Under these circumstances, seeing that all the other features of the Bill have been accepted

without amendment, and that this one point has been thoroughly considered and a satisfactory conclusion has been unanimously arrived at, and that further delay will serve no beneficial purpose, I ask Your Honour to suspend the Rules in order that the Bill may be passed at once, instead of coming here next week in order to go through the formality of passing it."

The President having declared the Rules suspended—

The Hon'ble SIR HENRY HARRISON moved that the Bill, as settled in Council, be passed.

The Motion was put and agreed to.

The Council adjourned *sine die*.

CALCUTTA;
The 7th March, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Departments.

The 18th March, 1890.—The following is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Government of Bengal.

EXHIBITION TO BE HELD IN JAMAICA IN THE YEAR 1891.

Extract from the Proceedings of the Government of India, Revenue and Agricultural Department (Museums and Exhibitions),—No. 239, *dated Calcutta, the 5th March* 1890.

THE following papers received from Her Majesty's Secretary of State for India relative to an Exhibition to be held in Jamaica in the year 1891 are published for general information:—

Industrial and Manufacturing Exhibition to be opened in Jamaica, January 1891.

COMMITTEE IN UNITED KINGDOM.

Honorary President:

The RIGHT HON. THE LORD KNUTSFORD, G C M G., &c, &c.

Chairman:

C. WASHINGTON EVES, Esq., F.R G.S

Committee:

HIS GRACE THE DUKE OF ST. ALBANS.
SIR HENRY BARKLEY, G.C.M.G., K.C.B.
SIR FREDERIC YOUNG, K.C.M.G.
SIR EDWARD NEWTON, K.C.M.G.
SIR J. R. SOMERS VINE, F.S.S.
MAJOR-GENERAL J. R. MANN, C.M.G.
SIR JOHN SIMON.
NEVILE LUBBOCK, Esq.
ALEXANDER CRUM EWING, Esq.
RICHARD M. HARVEY, Esq, F.R.G.S.
D MORRIS, Esq, M A., F L S.
MAXWELL HALL, Esq., M.A, F R A.S.
DR. D. PALMER ROSS, F R.C S.E.
J. KENYON HAWTHORN, Esq.
W. C. C. PARK, Esq
SAMUEL SHORTRIDGE, Esq.
WM. FAWCETT, Esq., B.SC., F.L.S.
E. A. DE PASS, Esq.

The Exhibition, to be opened in January 1891, will be managed by a Commission, His Excellency the Governor being at the head. This Commission has already been constituted by a Colonial Law.

A Committee has been formed in London, representing Jamaica interests in the United Kingdom, to co-operate with the organizing body in Jamaica. The Committee as at present constituted is given above, the consent of Lord Knutsford to act as Honorary President being especially gratifying to all connected with the Colony. That the scheme has taken practical shape is proved by the fact that in the Colony alone over £16,000 has already been guaranteed out of a total of £20,000 required.

The exhibition will comprise specimens of all Jamaica products: Sugar of all qualities and its allied industry of Rum manufacture; Liqueurs, Cordials, &c.; Coffee; Oranges Pine Apples and Fruits of all kinds; Pimento, Cacao, Annatto; Woods in all degrees of preparation for use; Spices, Condiments, &c.; Fibres and Fibrous Material; Cinchona Bark, Oils, Essential Oils, Perfumes, &c.; Medicinal and Economic substances; Works of Art, Pictures. Fancy Articles and Ornamental Work; Horses, Cattle and Live Stock of all kinds. The Botany and Geology of the Island will also be fully illustrated.

There will also be exhibited specimens of goods imported into Jamaica from all countries.

It is hoped that all parts of the Empire will add to the interest and completeness of this exposition by sending specimens and ornamental trophies illustrative of their productions.

The attention of Merchants and Manufacturers in the United Kingdom is especially invited. English goods find a ready market in a Colony of nearly 650,000 people. It is also desired to show the advance of science in manufacturing tropical products. The Engineering Firms and Manufactures of Machinery are requested to give their aid by exhibiting plans, drawings, models and specimens, so far as convenient, of actual machinery connected with such manufactures.

Shipowners are earnestly requested to co-operate by offering to take out specimens free of freight, and all who are interested in the commerce and productive prosperity of Jamaica are desired to give their help to an undertaking which must be beneficial to the Colony and all concerned in its fortunes.

As the Exhibition will be made as attractive as possible, the question of hotel accommodation for visitors from all parts of the British Empire, from the Continent of Europe and the United States and South America will be considered and details published in good time.

Communications and applications for forms and regulations to be addressed as early as possible to the Chairman, 1, Fen Court, London, E. C.

December 1889.

Regulations for the Jamaica Exhibition, 1891.

1. The Exhibition shall be one of Island Products, Manufactures and Works of Art, together with Exhibits of Works of Art, Machinery and Industrial and Agricultural Products from Great Britain and other Countries and Colonies.

2. The Exhibition shall be under the management and conduct of "The Jamaica Exhibition Commissioners" under Law 33 of 1889.

3. The Exhibition will be held in buildings to be erected for the purposes of the Exhibition on the grounds of "Quebec Lodge," conveniently situated on the northern boundary of the City of Kingston.

4 The Exhibition shall be opened on Tuesday, the 27th January 1891, and shall remain open for a period of not less than three months.

5. In order to secure uniformity of action there should be in each Country or Colony a Central Committee or a single Commissioner to act on behalf of the Exhibitors. Such Committee or Commissioner should perform the following functions :—

(*a*) Distribute the Rules and Regulations Application Forms, &c, to those likely to become Exhibitors.
(*b*) Receive the forms when filled up, the lists of articles for Exhibition, &c.
(*c*) Communicate upon all matters directly with the Secretary of the Exhibition, and forward to him, from time to time, any applications for space
(*d*) When the Commissioners shall have decided how much space is available, it will be the duty of the Committee or Commissioner to divide it amongst the Exhibitors of such Country or Colony.

There should also be an Agent in Jamaica for each Country or Colony. The same person can, of course, act for more than one Country or Colony.

6. Any expenses, of whatsoever nature, connected with the representation of any Country or Colony not borne by the authorities of such Country or Colony must be defrayed by the Exhibitors themselves.

7. Applications for space must be made in the printed forms prepared by the Commissioners. These must be in the hands of the Secretary on or before the 1st May 1890

8. The Secretary shall, before the 1st of July 1890, notify the decision of the Commissioners, and shall state what space, if any, has been allotted.

9 The reception of articles in the Exhibition Buildings shall commence on the 1st September 1890, and no articles shall be admitted after the 1st December 1890 Space assigned and not occupied on the 1st December 1890 shall revert to the Commissioners and shall be subject to re-assignment.

10. All Exhibits shall be arranged under some one of the following groups :—

Group I.—Raw Materials.
Group II.—Implements for obtaining Raw Materials.
Group III.—Machines and Processes used in preparing and making up the Raw Materials into Finished Products.
Group IV —Manufactured Goods.
Group V.—Education.
Group VI.—Fine Arts, Literature and Science.

Each of these groups is divided into classes, according to the system of general classification annexed to these Regulations (Appendix). This Appendix includes for each class a summary enumeration of the objects which it will comprise.

11. All packages from places in Jamaica containing goods intended for Exhibition must have placed on them the distinctive mark *Jamaica Exhibition*, as well as the name of the Exhibitor, and must contain a detailed list of contents.

12. Packages from Great Britain or other Countries or Colonies must likewise have painted on them the distinctive mark *Jamaica Exhibition*. They must be addressed to the Exhibitor himself or his private Agent, if any, or to the Agent, if any, of the Country or Colony from which they are sent. They must all be marked in such a way as to show distinctly the name of the Country or Colony from whence they come, and they must contain a detailed list of contents, a duplicate copy of which should be sent by post to the consignee.

13. Every object sent for Exhibition should be accompanied by a label stating the name and address of the Exhibitor and the number of the group to which it belongs

14. Exhibitors outside Jamaica must provide, either personally or through Agents, for the despatch and transmission of their goods

15. The Agents in Jamaica of the Countries or Colonies from which the Exhibits are sent are expected to provide for the reception, unpacking and, at the close of the Exhibition, the removal of the goods.

16 The Exhibits in Jamaica, except in the City of Kingston, shall be received by the Parochial Committees in the several parishes and shall be forwarded by them to the care of the Commissioners in Kingston, who shall arrange them in the Exhibition and return them to the Parochial Committees at the close of the Exhibition, if not otherwise disposed of. Exhibits in Kingston should be forwarded direct to the care of the Commissioners. Individual Exhibitors may however, if they prefer that course, either personally or through their own Agents, undertake the reception unpacking, arrangement and final removal of their goods, subject to the control of the Commissioners.

17. Exhibitors shall not be required to pay rent for the space occupied by Exhibits not intended for sale during the Exhibition. Information as to the renting of space for the sale of goods may be obtained from the Secretary.

18. Exhibition Spaces.—The space granted to a Country or Colony within the Building is available for floor space, exclusive of passages for the public.

19. Show Cases.—No particular form or design is prescribed for cases, counters, platforms, &c, but they must not exceed the following heights without the special written permission of the Commissioners:—

Show cases and partitions	10 feet above floor.
Counters	3 do. do.
Platforms	1 foot do.

Such structures are to be erected by Exhibitors at their own cost.

20. Railings of a uniform height of 2 feet 6 inches above the floor level may be erected. In every instance the railings must be within the area of the space allotted.

21. The putting up of decorations and sign-boards and the display of printed or written bills shall be subject to any special arrangements made by the Commissioners.

22. Cases must be unpacked as fast as received, and the empty cases taken away by the Exhibitors or their Agents. No space will be reserved for empty cases.

23. No Exhibitor shall be allowed to transfer any allotment of space, or to allow any other than his own duly admitted Exhibits to be placed thereon, except by special permission.

24. Exhibitors should mark the selling price of articles intended for sale for the information of visitors.

25 Objects sold cannot be taken away before the close of the Exhibition without special permission Special arrangements will be made with regard to perishable Exhibits.

26. Exhibitors of apparatus requiring the use of water, gas, or steam must state on applying for admission the quantity considered necessary. Those who wish to show machinery in motion must state the rate of speed at which the machine is to be driven. The furnishing of all countershafting pulleys, gas, water, steam, &c., must be at the entire expense of the Exhibitor, but under the direct control of the Commissioners or their appointed Officer.

27. Spirits or alcohol, oil, essences, corrosive substances, and generally all substances which might spoil other articles and inconvenience the public, can be received only in solid and suitable vessels of small size.

28. Percussion caps, fireworks, chemical matches, and other similar objects can be received only when made in imitation and deprived of inflammable ingredients.

29. Articles that are in any way dangerous or offensive shall not be admitted into the Exhibition.

30. No article exhibited may be photographed, drawn, copied, or reproduced, in any way whatsoever, without the special sanction of the Exhibitor.

31. Awards will be made by Committees specially appointed.

32. The Commissioners will not hold themselves responsible for any loss or damage occurring to any Exhibit from any cause whatsoever; but while declining any responsibility, it is the intention of the Commissioners to take such precautions as they deem necessary.

33. The Commissioners reserve the right to remove the objects belonging to any Exhibitor who shall not conform to the regulations.

34 Exhibits brought into Jamaica at any port of entry will be allowed to go forward to the Exhibition Buildings, under such arrangements for supervision by the Customs Officers as may be deemed proper, without examination at the port of entry, and at the close of the Exhibition will be allowed to go forward to the port from which they are to be exported. No duties will be levied upon such goods unless disposed of in Jamaica.

35. Immediately after the close of the Exhibition, Exhibitors whose Exhibits are not under charge of the Commissioners shall remove their effects and complete such removal within one month. Goods remaining after the expiry of the month will be removed by order of the Commissioners and sold for expenses, or otherwise disposed of under the direction of the Commissioners.

36. Each person who becomes an Exhibitor thereby acknowledges and undertakes to keep the Rules and Regulations established for the government of the Exhibition.

37. The Commissioners reserve the right to add to, alter, amend, or expunge any of the foregoing Regulations.

APPENDIX.

System of General Classification of Exhibits.

Group I.

Raw Materials.

Class 1. Raw Materials in the *Mineral* Kingdom:—

a.—Minerals.
b. Ores.
c.—Phosphates and other Natural Manures.
d.—Rocks and their contained Fossils.
e—Mineral Springs of Jamaica; their analysis and value.

Class 2. Raw Materials in the *Vegetable* Kingdom:—

a.—*Foods.*—Sugarcanes, Cereals, Roots, Cacao, Kola.
b.—*Fruits and Vegetables.*—Bananas, Oranges, &c.
c.—*Fibres.*—Sisal Hemp, Manilla Hemp, Cocoanut, Cotton, Ramai.
d.—*Timbers.*
e.—*Drugs.*—Tobaccos, Coca, Cinchona, &c.
f.—*Condiments and Stimulants.*—Coffee, Peppers, Ginger, Pimento, Rum.
g.—*Dyes.*—Logwood, Fustic, Annatto.
h.—*Oils.*—Castor Oil, Cocoanut Oil, Essential Oils.
i.—*Ornamental Plants.*

Class 3. Raw Materials in the *Animal* Kingdom :—

a.—Cattle and Horses, Sheep, Pigs, &c.
b.—Poultry, Birds, Fishes, Turtle, &c.
c.—Bees and Silkworms at work.
d.—Wool, Horn, Turtle-Shell, Corals, &c.

Group II.

Implements for obtaining Raw Materials.

Class 4. Implements used in—

Mining.
Geology.
Extracting Ores.

Class 5. Agricultural and Horticultural Implements.
Class 6. Fishing Implements. Guns and Hunting Equipments.

Group III.

Machines and Processes used in preparing and making up the Raw Materials into Finished Products.

Class 7. In the *Mineral* Kingdom :—

a.—Potter's Wheel, &c.
b.—Glass blowing.
c.—Making China, Firing, &c.
d.—Cutting and mounting Precious Stones.
e.—Metal Work, Blacksmith's Work, &c.

Class 8 In the *Vegetable* Kingdom :—

a.—Sugar-machinery, curing Cacao, making Arrowroot, Tapioca, Starch, Corn Shellers and Driers.
b.—Fruit Evaporators, packing Oranges, &c.
c.—Fibre-extracting, Rope-making, Mat-making, Hat and Basket-making, Weaving Cotton, Paper-making.
d.—Carpentry, Cabinet-making.
e.—Making Cigars and Cigarettes.
f.—Coffee-machinery, Rum-distilling.
h.—Apparatus for expression and distillation of Oils.

Class 9. In the *Animal* Kingdom :—

a.—Curing Meat and Fish.
b.—Model Dairy, making Butter.
c.—Preparing Silk and Wool and Weaving them.
d.—Cutting and preparing Tortoise Shell and Bones.

Group IV.

Manufactured Goods.

Class 10. In the *Mineral* Kingdom :—

a.—Pottery, Glass, China.
b.—Jewellery.
c.—Sewing-Machines, Needles and other Apparatus for making up Clothing.
d.—Apparatus for Heating and Lighting, Metal House-accessories.
e.—Steam-engines, Prime Motors.
f.—Goldsmiths' and Silversmiths' work, Bronzes, Clocks and Watches.

Class 11. In the *Vegetable* Kingdom :—

a.—Sugar, Chocolate, Starches, Bread and Pastry.
b.—Preserves, Dried and Crystallized Fruit.
c.—Thread, Cordage, Mats, Brushes, Paper, Textile Fabrics.
d.—Furniture, Wood-work, Farm Buildings, Model Dwellings.
e.—Drugs.
f.—Coffee, Rum, Pepper.
g.—Dyé-stuffs.
h.—Oils.

Class 12. In the *Animal* Kingdom :—

a.—Cured Meat and Fish.
b.—Dairy Produce.
c.—Woollen and Silk Goods.
d.—Leather, Horn, Bone Goods, &c.

Class 13. Goods made up of Materials from more than one of the Groups 1, 2, 3.

Group V.

Education.

Class 14. Kinder-Garten Appliances.

Class 15. Industrial School Appliances.

Class 16. Organization, Methods, and Appliances for ordinary Education in Schools.

GROUP VI.

Fine Arts, Literature and Science.

Class 17. Fine Arts :—

a.—Architecture.
b.—Painting, Drawing, Photography.
c.—Sculpture.
d.—Music.

Class 18. Literature and Accessories :—

a.—Books, &c., on Jamaica and West Indies.
b.—Books, &c., on British Isles.
c.— ,, ,, British Colonies (exclusive of *a*).
d.—Books, &c., on America.
e— ,, General.
f.—Book-binding.
g.—Printing.

Class 19. Science :—

a—Maps and Charts of the West Indies.
b.—Engineering, Sanitation, Gas, Electricity, Astronomy.
c.—Anthropology.

Scheme of Arrangement of Classes.

I	1	2	3
II	4	5	6
III	7	8	9
IV.	10	11	12
		13	
V.	14	15	16
VI	17		19

JAMAICA EXHIBITION, 1891.

APPLICATION FOR SPACE.

Name in full, or name of Firm .

Business or Profession .

Address in full .

General nature of goods, specifying Groups in which it is proposed to exhibit. (For particulars see back.)

No. of Square Feet.

Space applied for, subject to Rules and Regulations.

Signature

Date

As the allotment of space must depend upon the number of individual applications, it may be found necessary to give precedence to those made at an early date. It is therefore requested that this form may be forwarded before the 1st May 1890 to

LAURENCE R. FYFE, Esq.,
Secretary, Jamaica Exhibition,
Kingston, Jamaica.

On the allotment of space being officially notified, Exhibitors will be requested to furnish the necessary information for the Catalogue.

Intending Exhibitors are requested to mark under the Heads set apart for the purpose the Group or Groups in which they propose to exhibit, with such details as at the present date they are able to supply.

Full particulars will be found under the Appendix to the GENERAL REGULATIONS, "SYSTEM OF GENERAL CLASSIFICATION OF EXHIBITS."

GROUP I. Raw Materials.	
GROUP II. Implements for obtaining Raw Materials.	
GROUP III. Machines and Processes used in preparing and making up the Raw Materials into Finished Products.	
GROUP IV. Manufactured Goods.	
GROUP V Education.	
GROUP VI. Fine Arts, Literature and Science.	

ORDERED that the foregoing papers be published in the Supplement to the *Gazette of India* for general information, and that copies be forwarded to the Local Governments and Administrations noted on the margin, with a request that the Prospectus, &c, may be published in the local Gazette, and that such steps may be taken to make it known amongst Merchants and Manufacturers as may be considered desirable.

Madras.
Bombay.
Bengal.
North-Western Provinces and Oudh.
Punjab.
Central Provinces.
Burma.
Assam.
Coorg.
Hyderabad.
Ajmere-Merwara.

(True extract)

E. C. BUCK,
Secretary to the Government of India.

PROPOSAL FOR THE CONSTRUCTION OF WATER-WORKS AT NASIRABAD FOR THE SUPPLY OF FILTERED WATER TO THE INHABITANTS OF THE TOWN.

MUNICIPAL DEPARTMENT—MUNICIPAL.

Calcutta, the 14th March 1890.

RESOLUTION.

READ—

A letter from the Commissioner of Dacca, No. 853T, dated 17th February 1890, with enclosures, and also previous correspondence on the subject of water-works at Nasirabad, the head-quarters of the Mymensingh district.

It appears from this correspondence that Rajah Surjya Kant Acharjya Bahadur of Mooktagacha, in the district of Mymensingh, promised to make a donation of Rs. 50,000 to the Municipality of Nasirabad, which is the head-quarters of the Mymensingh district, to perpetuate the memory of his wife by some work of public utility in the town. At a public meeting held in the town in April 1888 the question was discussed, and it was unanimously resolved that this donation should be devoted to the construction of water-works for the Municipality. The District Board of Mymensingh then decided to make a grant of Rs. 30,000 as a contribution from the public, but as the funds would still be insufficient to carry out the works on a proper scale, the Rajah came forward and doubled his donation, which now amounts to one lakh of rupees. The total sum available amounts therefore to Rs. 1,30,000.

2. The Lieutenant-Governor has been advised that there is no legal objection to the grant which has been sanctioned by the District Board. It has been pointed out by the Commissioner that the entire district of Mymensingh will benefit, more or less, if water-works be constructed in the head-quarters station; that persons coming to the town, on legal or other business, will directly benefit; and that if the result of the introduction of good drinking-water be, as at Dacca, to practically suppress cholera in the town, there will be one principal centre for the spread of disease removed from the district. The position of the Mymensingh Board is solvent. During the year 1888-89 it spent Rs. 96,583 on original public works and Rs. 20,669 on repairs, and the credit balance of the Board at the close of the year was Rs. 1,48,128. Under these circumstances, and looking to the importance of the scheme, the Lieutenant-Governor now accords his approval to the proposed grant.

3. The splendid donation of Rajah Surjya Kant Bahadur merits the warmest approbation of Government, and it affords the Lieutenant-Governor the very greatest pleasure to acknowledge his beneficent liberality. The Municipal Commissioners of Mymensingh have already resolved that the works should be called after his wife's name, the "Raj Rajeswari Water-works."

4. It has been estimated by the local authorities that the construction of the works can be completed within the limit of the sum of Rs. 1,30,000 available. The preparation of professional detailed plans and estimates should therefore be undertaken without loss of time, and instructions will be issued through the Public Works Department to the Inspector of Local Works to afford the Municipal Commissioners such advice and assistance as they may require. If necessary, a special officer will be placed on deputation for this purpose.

5. It is estimated that the cost of the maintenance of the water-works when completed will amount to at least Rs. 6,000 a year, and this sum the Municipality has resolved to raise by the imposition of a water-rate.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of Dacca, and to the Public Works Department of this Government, and that it be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Offg. Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 15th March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
1	Burdwan March 15, '90	Nil	Weather—rather cool, but getting hot during the day. Prospects of crops favourable. Sugarcane is being pressed. Prices of common rice :—
	Culna ...	0·52	
	Cutwa ...	0·51	
			Srs.
			Burdwan 17½
			Culna 15
			Cutwa 16½
			Raniganga 19½
			per rupee.
2	Bankoora ,, 15, '90	0·66	Weather—seasonable. *Rabbi* harvest is finished, and sugarcane harvest nearly so. Rainfall of 9th and 10th has greatly facilitated preparation of field for next rice sowing. Common rice 20 seers per rupee at Sudder and 19½ seers at Bishenpore.
3	Birbhum ,, 15, '90	0·24	Weather—seasonable. State and prospects of crops good. Outturn of sugarcane 16 annas. Price of rice 16½ to 20 seers per rupee.
4	Midnapur ,, 15, '90	0·44	Weather—seasonable. The rain has done good to the few crops on the ground. Prices of common rice :—
			Srs.
			Sudder 18
			Contai 22
			Tamluk 16
			Ghatal 18
			per rupee.
5	Hooghly ,, 15, '90	0·24	Weather—seasonable; cloudy and showery. All crops promise well. Prices of common rice :—
	Serampore ...	0·25	
	Jehanabad ...	0·59	
			Srs.
			Sudder 12½
			Serampore 16
			Jehanabad 17½
			per rupee.
	Howrah ,, 15, '90	0 22	Weather—seasonable. State and prospects of crops good.
	Uluberia .	0·38	
	Central Districts.		
6	24-Perghs. March 15, '90	0·41	Weather—rather warm. Prospects of crops good. Lands being prepared for *aus*. Price of common rice 14 to 15 seers per rupee.
7	Nuddea ,, 15, '90	0 20	Weather—cloudy with slight rain. Prospects of the crops on the ground are favourable. Harvesting of gram, linseed, and pulses is still going on. Cultivation of land for early rice proceeding.
	Kooshtea ...	0·19	
	Meherpur ...	0·22	
	Chooadanga ...	0 25	
	Ranaghat ...	0 55	
8	Khoolna ,, 15, '90	Nil	Weather—getting warm. Condition of crops on the ground good.
9	Jessore ,, 15, '90	0·35	Weather—getting hot. More rain wanted for cultivation. Harvesting of linseed and peas going on. Average outturn of *kalai* and mustard 9 and 8 annas respectively. Prices stationary.
	Jhenidah -	0·20	
	Magura ...	0·15	
	Narail ...	0 15	
	Bongong ...	0·30	
10	Moorshedabad ,, 15, '90	0·05	Fine weather with passing clouds. Getting hot. Harvesting of *rabbi* crops proceeds. Lands are being ploughed for *bhadoi* sowings.
	Jungipore ...	0 19	
	Kandi ...	0·10	
11	Dinagepur ,, 15, '90	Nil	Weather—hot with strong west wind. Ploughing going on. Rain wanted. Sugarcane being pressed.
12	Rajshahye ,, 15, '90	Nil	Weather—seasonable: growing hot. Rain wanted. The few remaining crops on the ground are being rapidly got in with generally fair outturn.
	Nattore ...	0·03	
13	Rungpur ,, 15, '90	0·02	Weather—sultry days, but cool nights; cloudy in evenings. Rain much wanted for *aus* and jute cultivation. Some fears of drought entertained.
14	Bogra ,, 15, '90	Nil	Weather—seasonable. Sowing of *aus* paddy in some low lands has commenced. Standing crops promising *Khesari* is being reaped. Sugarcane is being cut. Common rice selling at 18 seers per rupee.
15	Pubna ,, 15, '90	0·05	Weather—cloudy at times. Outturn of *rabbi* crops fair. Rain wanted for *cheena* and *kaon* crops and for ploughing. Price of rice rising slightly.
16	Darjeeling ,, 15, '90	Nil	Weather—fair. Wheat and barley progressing favourably. In Terai lands are being ploughed for jute and *bhadoi* paddy. Prices of common rice :—
			Srs.
			Darjeeling 12
			Kurseong 13½
			Silliguri 16
			per rupee.
17	Julpigoree ,, 15, '90	Nil	Weather—hot in day, cool at night. Winter crops being reaped, and an average outturn expected. Ploughing of land for cultivation of *bhadoi* going on. Rain much wanted to enable *bhadoi* sowings to be made No change in prices.

No.	District and date of return.	Rainfall at sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Div. 18	Dacca March 15, '90	0·05	Weather—fine and getting warm. No rain in Naraingunge. Mustard and pulses being gathered. Cultivation going on for early crops. *Boro* paddy thriving, but rain wanted. Fodder available. No special change in prices of food-grains. Common rice 13 to 15 seers per rupee.
19	Furreedpur ,, 15, '90	0·14	Weather—getting warm. Lands being ploughed for jute and paddy, but rain wanted. Crops on the ground doing fairly well. Price of rice stationary.
20	Backergunge ,, 15, '90	0·47	Weather—cloudy and warm. Prospects of *rubbi* crops fair. Rice selling at 13¾ seers per rupee.
21	Mymensingh ,, 15, '90	0·02	Weather—seasonable, but strong westerly wind blowing for some days during the day time. Prospects of crops good. *Boro* crop doing well. Coarse rice sells at 13 seers per rupee.
Chittagong Div. 22	Chittagong ,, 15, '90	0·65	Weather—seasonable. Rain is still wanted for winter crops. Common rice selling at 17 seers per rupee.
23	Noakholly ,, 15, '90	Nil	Weather—warm and cloudy. Harvesting of *rubbi* crops nearly completed. Preparation of land for *aus* going on. Rain is much wanted.
24	Tipperah ,, 15, '90	0·22	Weather—cloudy and cool with wind. *Boro* paddy thriving. *Aus*, jute, and *til* being planted. Chillies ripening. Prospects good. More rain wanted for crops.
25	Chittagong Hill Tracts. ...	...	Report not received.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Div. 26	Patna ,, 15, '90	Nil	Weather—cool at night and hot during the day, with occasional clouds and strong winds. Harvesting of *rubbi* in full progress. Collection of opium continues. Prospects favourable. Prices of food-grains slightly falling.
27	Gya ,, 15, '90	Nil	Weather—seasonable. *Rubbi* crops are being cut. Opium is being extracted. Prices of food-grains stationary.
28	Shahabad ,, 15, '90	Nil	Weather—cloudy with high winds. Harvesting of wheat and barley going on with fair outturn. Collection of opium nearly finished with a similar result. Sugarcane being transplanted.
29	Durbhunga ,, 15, '90	Nil	Strong west wind prevailing. Harvesting of *rubbi* in progress. Outturn of wheat and mustard estimated at 12 annas on an average. Paddy and *mung* being sown in chur lands. Extraction of opium still going on; prospects remain good. Common rice selling at from 19 to 21 seers per rupee.
30	Muzufferpur ,, 15, '90	Nil	Strong west winds. *Rubbi* crops are being cut. Indigo sowings completed. Resowings were necessary only in a very few cases. Wheat estimated to give from 12 to 16 annas outturn. Collection of opium nearly completed; cloudy and windy weather has not been favourable; outturn will probably be below average.
31	Sarun ,, 15, '90	Nil	Weather—warm with west wind. Harvesting of *rubbi* in full swing; outturn favourable. *Rahar* is a full crop and is being cut. Collection of opium in progress.
32	Chumparun ,, 15, '90	Nil	Weather—warm and clear; west wind prevailing. Harvesting of *rubbi* and collection of opium progressing. Indigo sowings nearly finished. Mango flowers healthy. Common rice selling at 17 seers per rupee.
Bhagulpore Divs. 33	Monghyr ,, 15, '90	Nil	Weather—generally cloudy with strong westerly wind. A few drops of rain fell on the night of the 14th. Harvesting of *rubbi* crops going on. Prices of food-grains almost stationary.
34	Bhagulpur ,, 15, '90	Nil	Weather—seasonable. *Rubbi* crops doing well. Barley, wheat, gram, *masur*, and *rahar* being gathered. Outturn of linseed some 8 annas.
35	Purneah ,, 15, '90	Nil	Weather—hot westerly winds with cool nights and mornings. *Rubbi* crops doing well; harvesting commenced. Preparation for *bhadoi* progressing, and *kaoni* and other millets being sown.
36	Maldah ,, 15, '90	0·05	Weather—warm and cloudy. High west wind prevails. Slight rain on three days of the week. Harvesting of *rubbi* crops begun. *Boro* transplantation nearly over. Rain has done some injury to mango blossoms. Price of common rice stationary.
	Shibgunge ...	0·09	
37	Sonthal Pergns. ,, 15, '90	0·15	Weather—occasionally cloudy. Getting hot. Harvesting of *rubbi* nearly over. Little or no crops now on the ground. Sugarcane doing well. Outturn of *rubbi* about 10 or 12 annas.
	Deoghur ...	0·05	
	Godda ...	0·40	
	Jamtara ...	0·29	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops
ORISSA.			
Orissa Divn. 38	Cuttack March 15, '90	0·82	Weather—seasonable. Tobacco is being reaped. *Dalua* rice doing well. General prospects continue good.
Orissa Divn. 39	Pooree " 14, '90	0·15	Weather—cloudy with high wind. Lands are being ploughed for the ensuing *sarad* crop. *Mung* is in pod. *Dalua* crop is in ear. The rainfall during the week has done good to mango and *mung* crops.
	Khoorda ..	0·55	
Orissa Divn. 40	Balasore " 15, '90	2·54	Weather—seasonable. The recent rain has been most favourable for tillage and pasture.
CHOTA NAGPORE			
South-West Frontier Agency.			
Chota Nagpore Divn. 41	Hazaribagh March 15, '90	0·36	Weather—seasonable, becoming warm. Sugarcane is being transplanted. Poppy yielding well. Mango and *mohua* promising.
Chota Nagpore Divn. 42	Lohardugga " 15, '90	0·50	Weather—cloudy. Reaping of *rubbi* crops almost completed in the head-quarters subdivision. Rain and cloud have done some damage to standing *rubbi* crops and also to mango and *mohua* in the Palamow subdivision. Estimated damage is four annas.
	Palamow (up to 10th) ...	0·96	
Chota Nagpore Divn. 43	Singbhoom " 15, '90	0·84	Weather—warm. Prospects of crops good. *Mohua* and mango somewhat damaged by rain, and 8 to 12 annas crop expected.
Chota Nagpore Divn. 44	Manbhoom " 15, 90	0·39	Weather—warmer; a little cloudy. Wheat, barley, and gram ripening. Average outturn 10 annas. Rice is selling at 20 to 23 seers per rupee.
	Govindpore ...	0·83	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 18th March, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Int[erior] during the month of December, 1889.

IMPORTS INTO CALCUTTA.

Whence imported.	Food-grains: Rice and Paddy: Rice.	Paddy.*	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Fibrous Products: Jute, raw.	Gunny bags.†	Oilseeds: Linseed.	Mustard seed.*	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar: Refined.	Unrefined.	Tobacco: Unmanufactured.	Manufac-
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	M
BENGAL.																		
Burdwan ...	1,30,541	8,197	1,35,664	688	2,562	......	1,38,914	284	18,685	657	1,561	306	4	135	......	385	405	
Beerbhoom ...	3,18,461	335	3,18,671	311	......	......	3,18,982	......	7,595	......	606	......	......	215	......	......	...	
Midnapore ...	3,01,836	4,904	3,04,901	......	......	......	3,04,901	4,904	1,600	647	749	......	40	83	......	250	182	
Hooghly ...	98,161	5,744	1,01,749	1,446	1,023	586	1,04,801	92,671	182,210	1,661	1,916	......	......	......	16	2,824	11,673	1
24-Pergunnahs	3,25,268	16,593	3,31,634	......	978	......	3,30,612	1,44,341	877,925	8	......	......	3,048	......	4,200	22,016	2,706	
Nuddea ...	3,702	18	3,713	12,215	56,426	1,481	73,835	63,174	3,500	12,585	4,290	......	118	......	......	312	2,027	
Khulna ...	4,352	9,000	9,977	......	......	......	9,977	10,731	105	......	......	......	......	......	......	4,000	...	
Jessore ...	4,744	6,625	8,885	......	1,602	......	10,487	9,,560	140	333	432	......	30	......	20	19,103	1,897	
Moorshedabad	27,004	......	27,004	6,822	4,046	272	38,144	7,031	......	1,380	......	......	1	255	......	7	...	
Dinagepore ...	687	......	687	300	......	......	987	20,390	265,790	......	228	......	......	......	......	......	...	
Rajshahye ...	361	......	361	1,645	1,785	......	3,791	51,448	......	325	70	......	......	195	......	......	...	
Rungpore ...	32	......	32	......	......	......	32	2,58,158	57,050	......	4,294	......	......	......	......	......	5,848	
Bogra ...	5,620	......	5,620	......	......	......	5,620	12,8.7	......	......	......	......	1	......	......	......	...	
Pubna ...	......	......	......	404	966	......	1,370	4,43,279	519,455	106	9,380	......	......	......	......	......	115	
Darjeeling ...	100	......	100	......	......	......	10	25,420	11[illegible],245	......	1,169	18,811	......	......	......	......	...	
Julpigoree ...	......	......	......	......	......	......	......	1,14,993	517,225	......	1,111	24,272	......	......	......	......	687	
Dacca ...	775	......	775	......	1,028	......	1,803	3,21,994	700	175	2,610	21	1,532	......	......	......	...	
Furreedpore ...	5,810	300	6,037	......	4,193	......	10,229	1,35,601	350	601	1,580	347	144	5	......	......	1,500	
Backergunge ...	1,57,948	600	1,58,123	......	......	......	1,58,321	3,723	......	......	......	......	......	......	......	......	...	
Mymensingh ...	77	......	77	......	81	......	158	2,31,868	......	......	2,269	......	......	......	......	......	...	
Tipperah ...	3,300	......	3,300	......	......	......	3,300	7,100	......	......	......	......	......	......	......	......	...	
Chittagong ...	4,291	......	4,291	......	......	......	4,291	386	......	......	......	1,447	858	......	......	......	...	
Noakholly ...	15,583	400	15,833	......	......	......	15,833	1,175	......	......	......	......	2,975	......	......	......	...	
Total of Bengal	14,08,087	52,715	14,41,634	23,828	74,689	2,339	15,42,490	23,87,008	1,914,585	18,467	32,251	40,205	8,771	888	4,245	46,933	27,730	1,[illegible]
BEHAR.																		
Patna ...	2,463	......	2,463	3,059	62,772	3,949	72,242	......	1,610	35,723	11,040	1	26	7	......	9,948	515	
Gya ...	56	......	56	2,737	1,604	......	4,437	31	......	[illegible],045	......	......	......	24	......	23,941	...	
Shahabad ...	......	......	......	4,286	19,063	32	23,381	......	108	9,886	3,952	......	......	......	......	18,9.8	19	
Mozufferpore ...	......	......	......	......	......	3,000	3,000	......	35	772	1,623	......	......	......	......	5	53	
Durbhunga ...	6,030	585	6,396	300	1,550	212	8,458	......	......	37,313	23,034	......	1	......	......	......	136	
Sarun ...	......	......	......	......	76	......	76	......	210	11,879	809	......	......	......	......	511	...	
Chumparun ...	436	......	436	......	......	857	1,283	......	......	9,548	4,735	......	......	......	......	......	...	
Monghyr ...	7,487	......	7,487	14,697	29,616	......	51,800	14	3,080	1,964	4,879	......	......	......	......	32	...	
Bhagulpore ...	18,364	......	18,364	22,247	7,495	7,678	55,774	......	70	2,916	29,747	......	......	......	......	......	...	
Purneah ...	428	......	428	2,351	1,247	......	4,036	53,784	1,000	1,089	13,457	234	......	......	......	......	310	
Maldah ...	......	......	......	4,964	871	848	6,583	14,240	......	1,030	1,357	......	......	......	......	......	...	
Sonthal Pergunnahs.	14,916	......	14,916	24,804	5,361	2,534	47,615	9,139	1,085	3,761	9,335	......	......	25	......	......	6	
Total of Behar ...	50,170	585	50,536	79,164	129,745	19,210	2,78,858	77,211	7,105	1,19,843	1,03,498	235	27	56	......	53,308	1,030	1,2[illegible]
ORISSA.																		
Cuttack ...	545	......	545	......	......	......	545	1,233	......	......	......	......	......	......	......	......	...	
Balasore ...	67,148	4,549	69,991	......	165	......	70,156	24,797	600	1,277	918	......	......	9	......	......	50	...
Total of Orissa ...	67,693	4,549	70,536	......	165	......	70,701	26,030	600	1,277	918	......	......	9	......	......	50	......
CHOTA NAGPORE.																		
Hazaribagh ...	......	......	......	......	1,100	......	1,100	......	1,295	......	1,717	597	......	......	......	......	...	
Manbhoom ...	4,221	......	4,221	......	......	28	4,249	......	420	......	......	......	......	......	......	......	...	
Total of Chota Nagpore.	4,221	......	4,221	......	1,100	28	5,349	......	1,715	......	1,717	597	......	......	......	......	...	
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	15,30,771	57,849	15,66,9[illegible]7	1,03,192	2,05,699	21,577	16,97,395	24,90,219	1,924,095	1,39,587	1,38,384	41,057	8,798	953	4,245	1,02,331	28,810	2,97[illegible]
OTHER PROVINCES.																		
Assam ...	19	......	19	......	......	......	19	23,708	......	......	23,231	1,16,173	306	556	......	......	...	...
North-Western Provinces and Oudh.	10	......	10	71,904	66,189	8,033	1,46,136	609	875	44,045	15,43[illegible]	535	1,34,004	2	88	1,863	5	1
Punjab ...	9	......	9	44,293	14,128	5,740	64,172	......	......	......	......	616	4,079	......	......	808	...	1
Central Provinces	......	......	......	7,261	1,854	......	9,115	......	......	904	......	......	532	19	......	......	...	......
Rajputana and Central India.	......	......	......	......	......	50	50	......	......	......	......	......	......	......	......	......	...	...
Bombay ...	......	......	......	......	......	......	......	......	7,400	......	......	3	8,473	......	......	......	...	2[illegible]
Madras ...	......	......	......	......	4,033	......	4,033	......	......	......	......	1	......	......	5,069	......	337	3
Burmah ...	......	......	......	......	663	......	663	......	500	......	......	......	1,675	......	......	......	...	
Other places ...	18	......	18	......	10	......	28	......	......	......	......	......	......	......	129	......	...	33
Grand Total of Imports in Dec. 1889	15,30,827	57,649	15,66,985	2,26,552	2,92,776	35,400	21,21,711	25,14,506	1,938,870	1,84,576	1,77,007	1,58,094	1,58,415	1,530	9,311	2,04,216	29,152	3,60[illegible]
Grand Total of Imports in Dec. 1888	11,56,474	1,01,034	12,19,620	1,43,729	1,99,650	19,270	15,82,275	24,11,205	2,413,287	4,81,094	83,961	1,23,388	1,55,890	2,104	35,765	91,731	18,155	29,48[illegible]

* One maund of paddy is equivalent to 25 seers of rice. † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of December, 1889, *was as follows :—*

Exported from Calcutta—	Rice.	Paddy.	Total (in rice).	Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny bags.	Linseed.	Mustard seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Sugar Refined.	Unrefined.	Tobacco Unmanufactured.	Manufac-
To Indian ports, viz.—																		
Bombay ...	3,63,875	30	3,65,894	......	63	......	3,65,954	......	1,715,300	......	27,330	608	......	......	1,448	......	...	6
Other ports in Bombay	12	......	12	......	......	......	12	......	5,000	......	......	......	......	......	......	......	4	......
Madras ...	7,709	1,032	8,838	610	18,069	......	27,536	......	428,700	......	......	208	......	59	80	......	11	76
Other ports in Madras	1,13,603	200	1,13,817	......	2,704	......	1,16,533	486	479,225	......	......	......	......	11	29	......	6	11
Burmah ...	6,071	......	6,071	3,519	20,181	3,604	33,374	589	1,067,300	......	19	58	76	11	701	701	5,761	201
Other Indian ports	882	......	882	......	2,210	......	3,092	......	350,200	......	......	6	3	......	955	1,686	2,222	218
Pondicherry ...	1,311	......	1,311	30	249	......	1,590	......	75,000	......	......	......	......	......	......	......	...	...
Sind ...	382	......	......	......	......	......	382	......	43,750	......	......	......	......	......	......	......	...	...
Total of Inter-portal trade	4,55,998	1,082	4,97,237	4,217	43,475	3,604	5,48,533	1,054	4,763,475	......	27,349	880	79	81	3,213	2,387	7,400	417
To Foreign ports— United Kingdom	64,791	......	64,793	82,094	23,165	......	1,70,052	14,02,724	881,630	2,18,879	1,07,728	1,55,693	4,704	258	......	......	4,861	11
Other Foreign ports ...	2,11,191	2,240	2,12,591	3,147	16,015	305	2,32,098	5,94,513	6,950,850	30,247	1,18,600	5,996	48,203	811	203	......	448	16[illegible]
Total of Foreign trade ...	2,75,984	2,240	2,77,384	85,241	39,180	305	4,02,110	19,97,237	7,832,500	2,40,126	2,26,328	1,61,699	52,907	1,069	203	......	5,309	17[illegible]
Grand Total of Exports in Dec. 1889	7,71,[illegible]	4,322	7,74,621	89,458	82,655	3,909	9,50,673	19,98,291	12,595,975	2,40,126	2,53,677	1,62,479	53,046	1,150	3,416	2,387	12,714	62[illegible]
Grand Total of Exports in Dec. 1888	7,81,217	834	7,81,7[illegible]	1,17,121	74,804	21,517	9,94,910	30,14,723	14,879,228	6,18,501	32	1,30,720	84,694	1,088	1,974	577	13,866	56[illegible]

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of December, 1889.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Refined.	Unrefined.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	8,47,248	39,255	31,436	57,878	8,460	9,01,014	540,920	18,660	41,084	...	6,754	101	1,398	32,007	13,678	1,812
,, river steamers ...	50,526	449	...	1,772	... ...	2,93,861	...	1,761	17,518	1,14,934	165	4	... ...	...	191	
,, rail { East Indian Railway	5,14,756	11,300	1,94,079	2,05,184	26,938	38,460	38,200	1,58,738	1,01,244	2,315	1,39,276	656	88	55,381	916	414
,, rail { Eastern Bengal State Railway.	13,976	52	1,037	22,477	2	11,63,493	1,311,660	4,080	16,776	89,980	1,047	756	..	2,779	9,469	....
,, road	41,395	2,274	.....	304	.....	1,01,188	34,500	.....	.....	...	149	... ...	2,807	14,029	4,518	987
,, sea	62,926	4,459	.....	5,071	... ...	21,744	8,500	1,277	475	1,548	10,431	9	5,203	... ..	387	613
Grand Total of Imports in December, { 1889	15,30,827	57,849	2,26,552	2,92,776	35,400	25,14,686	1,932,870	1,84,536	1,77,097	1,58,484	1,58,125	1 570	9,541	1,04,210	29,132	3,826
1888	11,56,474	1,01,034	1,43,729	1,90,650	19,276	24,11,295	2,413,237	4,81,694	83,961	1,28,788	1,51,490	2,194	33,783	91,761	10,155	29,484

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of December, 1889.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	2,45,907	2,310	450	1,586	25,667	81,620
Beerbhoom ...	1,78,227	.....	83	803	13,463	177,555
Midnapore ...	2,67,527	... ...	3,567	.....	21,905	38,989
Hooghly ...	85,772	4,910	579	120	2,406	25,615
24-Pergunnahs ...	1,96,415	1,285	291	.....	10,569	17,402
Nuddea ...	3,11,592	.....	2,013	... ...	23,370	78,411
Khulna ...	75,416	.....	73	.....	3,811	605
Jessore ...	1,70,141	.....	476	.....	24,851	1,985
Moorshedabad ...	66,339	.....	29	30	6,450	16,143
Dinagepore ...	1,46,412	... ..	119	... ..	9,738	18,200
Rajshahye ...	1,52,898	... ..	17	... ..	12,175	20,400
Rungpore ...	4,60,500	... ...	243	.....	15,548	7,210
Bogra ...	1,73,053	... ..	6	.....	8,184	71,575
Pubna ...	1,84,212	.....	279	6	51,710	1,680
Darjeeling ...	2,21,587	... ..	195	.....	4,601	.....
Julpigoree ...	1,20,897	... ..	172	.....	8,310	593
Dacca ...	30,88,923	850	1,391	74	34,973	8,035
Furreedpore ...	2,17,408	... ..	562	..	44,704	805
Backergunge ...	2,33,659	.....	647	...	22,200	1,810
Mymensingh ...	1,93,473	.....	17	5	43,038	245
Tipperah ...	... ...	.....	.....	... ..	450	... ...
Chittagong ...	90,150	... ..	95	... ..	625	133,050
Noakholly ...	800	... ..	... ..	... ..	6,800	... ...
Total of Bengal .	48,25,006	9,075	11,087	2,630	3,99,148	711,200
BEHAR.						
Patna ...	1,60,795	....	240	379	25,127	137,505
Gya ...	1,17,150	7,020	30	1,044	15,038	2,,935
Shahabad ...	3,20,922	... ..	67	827	15,035	46,410
Monghyr ...	1,23,480	.....	...	48	9,924	2,485
Purbhunga ...	5,81,460	... .	8	603	23,700	49,833
Sarun ...	2,84,508	.....	1	75	17,412	12,075
Chumparun ...	3,78,693	... .	27	11	13,833	10,985
Monghyr ...	1,34,647	550	15	391	10,508	28,455
Bhagulpore ...	3,58,590	7,500	79	373	23,358	106,390
Purneah ...	1,64,178	... ..	112	831	18,832	29,765
Maldah ...	... ...	... ..	20	... ..	11,634	4,450
Southal Pergunnahs ...	2,00,737	8,690	289	982	17,347	90,615
Total of Behar ..	29,15,240	24,760	898	5,544	2,01,359	542,465
ORISSA.						
Cuttack ...	14,500	.....	49	1,458	4,583	44,250
Balasore ...	88,864	.....	75	5,590	12,706	173,180
Total of Orissa ...	1,03,364	.....	124	7,048	17,289	217,430

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds	No.
CHOTA NAGPORE.						
Hazaribagh	40,053	3,630	1	79	6,314	2,945
Manbhoom	90,625	...	26	1,014	5,713	2,520
Total of Chota Nagpore	1,32,678	3,630	27	1,093	12,028	5,365
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal	79,74,204	37,455	12,136	16,317	6,29,684	14,79,400
OTHER PROVINCES.						
Assam	4,78,537	...	819	699	21,994	2,140
North-Western Provinces and Oudh	27,52,786	14,190	2,963	696	24,329	387,275
Punjab	5,99,040	5,080	634	12	.....	40,,285
Central Provinces	37,014	.	212	7	.....	109,935
Rajputana and Central India	27,905	110	200	.....	.... .	010
Berar	.....	..	... ..	.....	. . .	43,715
Nepal	.....	110	.....	.....	.....	210
Nizam's Territory	315	...	....	.....	.....	
Bombay	1,197	980	17	... ..	.....	2,720,800
Madras	22,400	..	365	839	... ..	900 925
Pondicherry	1,000	..	....	....	... ..	75,000
Burmah	2,63,959	900	760	2,802	3	1,647,300
Sind	.....	.. ..	..	..	.....	43,750
Other places	6,535	3,184	19	11,491	... ..	7,832,500
Grand Total of Exports in Dec. { 1889	1,20,54,995	59,990	18,007	31,924	6,76,120	14,705,045
1888	1,32,41,943	67,728	26,012	12,877	6,62,408	16,488,817

The Sea-borne Trade of Calcutta in these Staples during the month of December, 1889 was as follows:—

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom	70,99,124	.....	8,917	....	5,78,080	... .
Other Foreign ports ...	1,32,595	.....	450	.....	1,80,168	... ..
Total of Foreign Trade ...	72,31,719	.....	9,397	... .	7,41,168	..
From Indian Ports—						
Bombay	1,76,228	.....	... ..	10,758	.....	7,400
Madras	29,586	.....	... ..	29	. . .	...
Other ports in Madras ..	703	.. .	.....	403	...	. ..
Burmah	13,848	940	.....	.....	.....	900
Other Indian ports	11,360	..	. ..	.....	.....	600
Sindh	833	. ...	.....	.....	... .	. . .
Total of Interportal Trade ...	2,32,298	940	... .	11,190	...	8,900
Grand Total of Imports in Dec. { 1889 ..	74,54,017	940	9,397	11,190	7,41,168	8,900
1888 ..	11,022,975	1,61,891	16,342	14,455	7,76,791	32,600

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of December, 1889.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,91,430	4,930	3,149		2,75,119	131,097
,, river steamers	2,70,995	550	2,285	784	90,756	1,,,,,
,, rail { East Indian Railway	64,20,976	48,640	5,307	9,810	2,62,240	1,894,040
,, rail { Eastern Bengal State Railway	35,10,738	..	2,803	.....	82,439	173,975
,, road	1,81,632	1,265	372	89	4,126	6,625
,, sea	4,05,524	4,994	1,196	22,241	15,402	12,895,978
Grand Total of Exports in December { 1889	1,20,54,995	59,990	18,007	31,924	6,76,120	14,705,045
1888	1,32,41,943	67,728	26,012	17,887	6,62,408	16,488,817

STATISTICAL DEPARTMENT,
The 12th March, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree ...	29·870	29·891	—	SW	257	87·2	18, 14 Mar.	72·6	14th Mar.	86·2	75·0	80·6	—	78·6
		Gopalpore	29·865	29·886	—·069	SSW	426	88·2	8th ,,	75·5	11th ,,	86·1	76·9	81·5	+2·4	80·3
		False Point ...	29·871	29·893	—·085	SW	274	86·7	14th ,,	70·1	14th ,,	85·6	72·0	78·8	—0·5	78·5
	Cuttack	Cuttack .	29·821	29·904	—·007	Calm	72·9	94·4	9th ,,	69·8	8th ,,	93·5	71·7	82·6	—1·1	77·4
	Balasore	Balasore ..	29·829	29·890	—·085	South-westerly.	141·1	91·4	12th ,,	61·6	14th ,,	84·0	67·8	77·0	—1·5	73·9
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·864	29·891	—·083	South-westerly.	339	86·2	13th ,,	70·6	10th ,,	83·2	73·9	78·6	—1·9	78·3
	Midnapore	Midnapore	29·745	29·899	—·075	S	292·2	94·3	9th & 12th Mar.	66·2	8th, 10th Mar.	91·4	68·5	80·0	—0·8	72·8
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta	29·870	29·892	—·079	Westerly	103·0	88·5	9th & 12th Mar	63·3	8th ,,	86·6	67·4	77·0	—2·1	73·5
	Burdwan	Burdwan	29·777	29·880	—·090	Variable	61·0	94·1	9th ,,	61·4	8th ,,	89·7	67·2	78·4	—1·0	71·9
	Bankoora, ...	Bankoora ..	29·857	29·868	—·088	W	68·9	91·8	13th ,,	62·7	8th ,,	88·4	66·3	77·3	—2·2	70·6
	Beerbhoom ... . / West Burdwan	Raneegunge	29·843	29·888	—·085	Westerly	43·7	92·5	9th, 14th Mar.	60·9	11th ,,	89·8	65·7	77·8	—2·2	69·8
	Moorshedabad ...	Berhampore...	29·865	29·874	— 085	W	114·6	93·2	14th ,,	56·7	8th ,,	88·5	64·0	76·2	—1·6	69·9
	Nuddea	Krishnaghur...	29·836	29·904	—·063	WSW	119·3	92·2	13th ,,	56·9	8th ,,	88·8	66·2	77·5	—0·1	73·4
	Jessore ... ... / Khoolna	Jessore ..	29·854	29·888	—·079	SW	58·0	91·2	13th, 14th Mar.	62·5	8th, 10th Mar.	87·7	67·8	77·4	—1·7	71·8
	Chittagong	Chittagong	29·817	29·909	—·091	Variable	95·7	88·6	8th ,,	63·5	8th ,,	87·3	67·8	77·5	+1·1	73·6
East Bengal.	Chittagong Hill Tracts	Demagiri .	Observations not received.													
	Backergunge	Barrisal ..	29·883	29·896	—·068	SW	101·6	87·5	9th, 13th Mar.	59·6	10th ,,	85·9	68·9	77·4	—1·1	74·8
	Noakholly	Noakholly ...	29·872	29·916	—·061	SW	106·5	87·5	12th ,,	60·0	8th ,,	85·2	67·8	76·5	—0·4	76·3
	Furreedpore	Furreedpore..	29·853	29·894	—·079	SW	102·1	86·0	13th ,,	61·0	10th ,,	83·9	66·4	75·1	—1·0	71·2
	Dacca	Dacca ...	29·856	29·879	—·092	SSW	119·6	91·1	12th ,,	59·8	10th ,,	87·5	65·9	76·7	—1·6	71·9
	Commillah	Commillah ..	29·858	29·894	—·083	South-westerly.	86·5	88·4	12th ,,	58·9	8th ,,	84·8	66·8	75·8	—1·9	73·1
	Mymensingh	Mymensingh	29·815	29·875	—·100	South-westerly.	82·9	90·9	14th ,,	57·6	8th ,,	85·9	61·9	73·9	+0·1	68·5
North Bengal.	Bogra	Bogra	29·781	29·846	—·092	SW	125·5	93·8	13th ,,	59·6	10th ,,	88·9	63·6	76·2	+1·5	70·6
	Pubna	Serajgunge ..	29·814	29·962	—·094	SW	81·7	92·0	13th & 14th	54·8	8th ,,	88·1	62·3	75·2	—0·6	70·7
	Rajshahye	Rampore Beauleah.	29·815	29·868	— 056	SW	107·8	91·8	13th ,,	60·5	10th ,,	89·6	63·9	76·7	+1·1	69·7
	Maldah	Maldah ...	29·774	29·857	—·036†	SW	77·2	94·0	13th ,,	57·5	8th ,,	88·6	60·6	74·6	+0·5	73·1
	Dinagepore	Dinagepore	29·723	29·849	— 131	SW	158·6	92·6	13th ,,	55·2	10th ,,	88·0	59·0	73·6	0	69·7
	Rungpore	Rungpore	29·728	29·847	—·103	W	118·7	90·6	13th ,,	54·0	10th ,,	86·6	58·4	72·5	+0·2	68·1
	Julpigoree ... ... / Cooch Behar	Julpigoree ..	29·653	29·885	—·133	Northerly	139·6	88·2	14th ,,	49·4	10th ,,	86·1	52·6	69·3	—2·2	69·9
	Darjeeling Hill Tracts ...	Darjeeling	22·852	—	—	WSW	215·4	60·0	14th ,,	36·2	10th ,,	54·8	38·5	46·7	—2·3	47·2
North Behar.	Purneah .. ... / North Bhagulpore ...	Purneah ..	29·709	29·840	—·115	South-westerly.	154·7	90·7	13th ,,	53·5	6th, 10th Mar.	86·1	57·4	71·7	—1·0	66·5
	Mozufferpore	Mozufferpore	Observations suspended.													
	Durbhunga	Durbhunga ...	29·670	29·843	—·113	WSW	164·4	89·4	13th Mar.	?	?	86·0	?	?	?	67·8
	Chumparun	Motihari ..	29·697	29·846	— 092	WSW	282·8	89·2	13th ,,	49·9	8th ,,	85·8	54·0	69·9	—2·1	62·5
	Sarun	Chupra ..	29·651	29·851	—·093	WNW	179·7	91·3	13th ,,	59·9	10th ,,	87·2	61·6	74·4	0	70·9
South Behar.	Shahabad	Dehree .	29·528	29·894	—·076	S.-wly.	164·4	91·1	13th ,,	61·0	10th ,,	86·8	63·2	76·0	+0·9	70·9
		Buxar .	29·631	29·882	—·082	W	141·9	91·6	13th ,,	58·2	10th ,,	80·1	63·3	74·7	—0·7	68·0
		Arrah ..	29·660	29·870	—·071	SW	159·8	91·8	13th ,,	58·0	10th ,,	87·6	62·7	75·2	+0·1	73·1
	Gya	Gya ..	29·493	29·885	—·090	South-westerly.	90·8	92·8	13th ,,	59·1	10th ,,	87·1	64·1	75·6	—2·3	69·9
	Patna ..	Bankipore ..	29·673	29·854	—·100	South-westerly.	108·5	91·9	13th ,,	60·2	10th ,,	87·8	63·3	75·5	+0·1	71·2
	South Bhagulpore / Monghyr .	Bhagulpore ...	29·675	29·841	—·100	Calm & S.-wly.	90·9	93·2	13th ,,	57·0	10th ,,	86·8	63·9	76·2	+0·7	71·5
Chutia Nagpur.	Sonthal Pergunnahs	Doomka ..	29·359	29·872	—·078	Westerly	62·5	93·1	13th ,,	59·5	8th ,,	88·8	63·4	76·1	—1·3	71·8
	Hazaribagh	Hazaribagh ..	27·882	29·899	—·082	Westerly	174·8	86·2	13th ,,	56·9	10th ,,	81·8	61·3	71·6	—2·6	69·5
	Lohardugga ... ... / Manbhoom	Ranchee ..	27·732	29·897	—·079	Variable	99·6	85·5	14th ,,	57·4	10th ,,	80·9	60·6	70·8	—3·9	68·8
	Singbhoom	Chyebassa ...	29·109	29·893	—0·66	WSW	49·0	93·4	13th ,,	64·7	11th ,,	89·7	66·1	77·9	—1·2	70·9

* Means of five days. | † Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 14th of March 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for districts.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1889. Mean for districts.	Since 15th May 1889. Normal mean.	Since 15th May 1889. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division
83	5·4	0·15		0·18		0·35			56·61			0·5	Pooree	Pooree	Orissa.
79	3·9	0·02											Gopalpore		
81	7·9	0·27											False Point		
79	3·7	0·97	0·75	0·34	0·76	0·56	+0·20	67·17	53·35	+13·82	2·0	0·6	Cuttack	Cuttack	
84	1·0	2·48	1·46	0·18	1·53	0·45	+1·08	51·60	54·82	−3·22	2·5	0·5	Balasore	Balasore	
83	5·0	0·78	1·27	0·19	1·27	0·52	+0·75	59·91	64·27	−4·36	2·7	0·5	Sangor Island	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
72	3·0	0·35	0·80	0·33	0·88	0·82	+0·06	47·27	53·39	−6·12	2·0	0·6	Midnapore	Midnapore	
85	6·1	0·29	0·32	0·24	0·54	0 68	−0·14	54·64	53·59	+0·05	2·0	0·6	Calcutta	24-Pergunnahs / Howrah / Hooghly	
69	5·1	0·37	0·47	0·25	0·47	0·64	−0·17	44·36	48·38	−4·02	1·7	0·6	Burdwan	Burdwan	
72	4·0	0·68	0·74	0·28	0·99	0·61	+0·38	56·82	53·52	+3·30	1·8	0·5	Bankoora	Bankoora	
73	4·3	0·68	0·33	0·21	0·52	0·35	+0·17	52·96	52·95	+0·03	1·5	0·5	Raneegunge	Heerbhoom / West Burdwan	
75	3·6	0·05	0·06	0·24	0·18	0·40	−0·22	51·35	51·74	−0·39	0·5	0·5	Berhampore	Moorshedabad	
73	5·4	0·20	0·30	0·34	0·37	0·73	−0·36	51·98	50·91	+1·07	1·4	0·6	Krishnaghur	Nuddea	
88	6·6	0·35	0·14	0·34	0·18	0·86	−0·68	54·93	55 19	−0·26	1·0	0·7	Jessore	Jessore / Khoolna	
83	4·0	0·67	0·33	0·09	0·38	0·85	−0·47	100·73	115·36	−14·63	1·0	0·3	Chittagong	Chittagong	East Bengal.
				0 20		1·52			83·71			0·4	Demagiri	Chittagong Hill Tracts	
94*	3·4	Nil	0·16	0·17	0·16	0·86	−0·70	78·57	78·92	−0·35	0·8	0·4	Barrisal	Backergunge	
81	0·3	drops	Nil	0·40	0·15	1·67	−1·52	91·04	109·83	−18·79	0·0	0·7	Noakholly	Noakholly	
88	4·6	0·14	0·12	0·58	0·12	1·22	−1·10	62·34	58·14	+4·20	0·7	0·7	Furreedpore	Furreedpore	
90	7·6	0·06	0·29	0·69	0·32	1·19	−0·87	76·51	61·99	+14·52	1·5	0·8	Dacca	Dacca	
87	4·1	0·21	0·58	0·78	0·49	1·44	−0·95	87·11	71·77	−14·66	1·3	0·8	Commillah	Tipperah	
88	3·1	0·03	Nil	0·58	0·02	0·85	−0·83	88·80	69·08	+19·72	0 0	0·7	Mymensingh	Mymensingh	
68	2·9	drops	0·01	0 07	0·06	0·36	−0·30	65·68	58·37	+7·31	0·2	0·4	Bogra	Bogra	North Bengal.
74	3·6	Nil	0·01	0·40	0·17	0·73	−0·56	55·54	55·13	+0·42	0·5	0·6	Serajgunge	Pubna	
65	1·6	0·04	0·01	0·18	0·04	0·42	−0·38	54·39	55·00	−0·61	0·3	0 5	Rampore Beauleah	Rajshahye	
67	2·1	0·05	0·03	0·10	0·11	0·20	−0·09	39·90	55 01	−15·11	1·0	0·3	Maldah	Maldah	
49	3·4	Nil.	0·01	0 09	0·03	0·22	−0·19	57·33	58·10	−0·58	0·2	0·3	Dinagepore	Dinagepore	
57	0·6	Nil	Nil	0·27	Nil	0·51	−0·51	85·87	74·77	+11·10	0·0	0·5	Rungpore	Rungpore	
68	1·0	Nil	Nil	0·32	Nil	0·46	−0·46	117·73	113·10	+5·63	0·0	0·6	Julpigoree	Julpigoree / Cooch Behar	
48	2·6	Nil	Nil	0·55	Nil	0·67	−0·67	133·46	122·71	+10 75	0·0	0·8	Darjeeling	Darjeeling Hill Tracts	
54	1·3	Nil	Nil	0·13	0 05	0·24	−0·19	75·05	59·42	+15·63	0·0	0·4	Purneah	Purneah / North Bhagulpore	North Behar.
			Nil	0·07	0·07	0·28	−0·21	48·92	44 21	+4·71	0·0	0·3	Mozufferpore	Mozufferpore	
52	2·4	Nil	Nil	0·14	0·06	0·23	−0·17	52·17	45·35	+6·82	0·0	0·4	Durbhunga	Durbhunga	
35	4·3	Nil	Nil	0·06	0·15	0·27	−0·12	64·11	47·44	+16·67	0·0	0·3	Motihari	Chumparun	
78	2·6	drops	Nil	0·03	0·17	0·12	+0·05	40·30	43·55	−3·25	0 0	0 2	Chupra	Sarun	
57	3·6	0·02											Dehree		
54	4·7	drops	Nil	0·13	0·38	0·31	+0·07	40·47	40·79	−0·32	0·0	0·3	Buxar	Shahabad	
53	3·4	Nil											Arrah		
59	4·4	0·03	0·01	0·10	0·18	0·21	−0·03	37·27	42·25	−4·98	0·5	0·3	Gya	Gya	South Behar.
46	3·0	Nil	Nil	0·07	0·11	0·16	−0·05	43·61	41·89	+1·72	0·4	0·3	Bankipore	Patna	
55	3·4	Nil	Nil	0·06	0·02	0·17	−0 11	42·53	43·86	−1·33	0·0	0·3	Bhagulpore	South Bhagulpore / Monghyr	
60	2·0	0·15	0·16	0·15	0·42	0·32	+0·10	54·57	51·58	+2·99	1·3	0·4	Deoghur	Sonthal Pergunnahs	
48	6·1	0·41	0·27	0·45	0·61	0·53	+0·08	45·64	51·68	−5·04	1·6	0·5	Hazaribagh	Hazaribagh	Chutia Nagpore.
57	3·3	0·50	0·39 / 0·35	0·38 / 0·22	1·58 / 0·80	0·49 / 0·45	+1·09 / +0·35	45·92 / 39·16	50·34 / 48·31	−4·42 / −0·15	1·7 / 2·0	0·5 / 0·4	Ranchi	Lohardugga / Manbhoom	
75	4 1	0·07	0·8	0·40	0·94	0·67	+0·27	49·70	53 09	−3·39	3·0	0·6	Chyebassa	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 8th March.	Sunday, 9th March.	Monday, 10th March.	Tuesday, 11th March.	Wednesday, 12th March.	Thursday, 13th March.	Friday, 14th March.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	......	......	......	...	......	0·03	0·09	2	0·12	0·12	0 33	84·83	52·51
		Khurdah ...	......	......	......	0·20	0·05	0·30	1 35	4	1·92	1·90	0·18	78·47	57 36
		Banpur ...	......	......	0·40	0·97	1·15						0 39		50·38
		False Point ...	......	......	......	0·18	......	......	0·09	2	0·27	0·51	0·49	77·51	65·18
		Gop ...											?		?
		Salpora ...	......	......	......	......	0·13								
		Pipli .											?		?
	Cuttack .	Jagatsingpore	......	......	0·80	......	......	......	......	1	0 80	0·80	0·45	75·29	48·14
		Banki ..	......	......	...	......	......	0·48	0·62	2	1·05	1·08	0·78	53·60	50·96
		Cuttack ...	......	......	0 85	......	0·08	0·16	......	3	1·09	1 09	0 72	70·27	57 79
		Kendrapara ...	......	......	......	0·32	...	0 01	......	2	0·31	0·33	0 42	72·57	54 37
		Jajpore ...	......	......	......	0·34	0·15	......	......	2	0·49	0·49	0·51	58 13	55·21
		Dharmsala	......	......	0·50	0·20							?		?
		Salipore	......	......	0 18	0·30							?		?
	Balasore ..	Chandbali ...	......	......	......	0·22	......	......	......	1	0·22	0·22	0·47	55·26	53·05
		Bhuddruck ...	......	......	0·44	......	0·04	0·14	......	3	0 62	0·70	0·30	58·06	53·32
		Sorah ...	......	......	0·31	......	...	0·10	...	2	0·41	0·41	0·84	46·46	52 60
		Balasore ..	......	......	......	0·11	0·15	0·53	0 75	4	2·54	2·84	0 59	49·67	59 89
		Jellasore ..	......	......	0·57	0 75	1·25	1·15	0·25	5	3·97	3·97	0·53	63·71	58 20
		Baripodah ..	......	......	......	0·27	0·75	......	......	2	1·02	1·02	0 30	55·81	54·87
SOUTH-WEST BENGAL.	Midnapore ..	Contai .	......	......	1·05	......	0 45	0 73	......	3	2·23	2·23	0·36	57·50	62·96
		Saugor Island	......	......	0·42	......	0·15	0 21	......	3	0·78	0 78	0·50	57·61	68·72
		Tumlook ..	......	......	0 10	......	0·80	......	......	2	0·90	0·90	1·06	51·50	53·48
		Midnapore ..	......	......	0·20	......	0·24	...	......	2	0·44	0 44	0·82	46·70	50 62
		Ghattal ..	......	......	0·50	......	......	0·56	......	2	1·06	1·29	0·57	44 59	56 62
		Kukrahaty ..	......	......	0·27	......	0·43	...	......	2	0·70	0·70	?	60·54	?
		Garhetta ..	......	......	0 42	......	......	1·09	......	2	1·51	3·39	?	49 68	?
	24-Pergunnahs	Diamond Harbour ..	......	......	0·37	......	0·43	......	......	2	0·80	0·80	0·72	64·59	60·94
		Canning Town	......	......	0·23	......	0·04	......	......	2	0·27	0 27	?	58·12	?
		Alipore Jail ..	......	......	0 35	......	0·06	......	......	2	0·41	0·41	1·01	51·28	58·33
		Barrackpore...	......	......	0·24	......	......	0·12	......	2	0·36	0 49	0 88	52·61	51·96
		Dum-Dum ..	......	......	0·28	......	......	......	......	1	0·28	0·37	0 81	63·80	53·64
		Barasat	......	......	0·18	......	......	......	......	1	0·18	0 18	0·75	58 39	52 01
		Busserhat ..	......	......	0·16	......	......	......	......	1	0·16	0·16	0 75	62 57	56·34
	Howrah ..	Howrah	......	......	0·10	......	00·3	0·09	......	3	0·22	0·40	0·84	60·04	53 84
		Moheeroka (*Oolooberiah.*	......	......	0·30	......	0·08	......	......	2	0·38	0·38	0·32	55·42	53·76
	Hooghly ..	Serampore ..	......	......	0·25	......	......	0·15	......	2	0·40	0·56	0 47	56·19	51·84
		Hooghly ..	......	0·03	0·17	......	......	0 04	......	3	0·24	0·24	0·55	57·77	49 96
		Jehanabad	......	......	0 27	......	......	0·32	......	2	0 59	2·28	0 46	63·83	56·78
	Burdwan ..	Culna	......	0·34	0·18	......	......	......	......	2	0·52	0 52	0·64	41 84	46·07
		Burdwan ..	......	0·13	0·24	......	......	......	......	2	0·37	0 37	0·72	47·62	49·40
		Cutwa	......	0·51	...	......	......	......	......	1	0 51	0 51	0·58	43 62	49·51
		Raneegunge	......	0·20	0·48	......	......	......	......	2	0·68	0·71	0 42	56 41	50·63
		Mankur ...	......	0 09	0·19	......	......	......	......	2	0·28	0·28	?	54·08	?
	Bankoora ..	Bankoora	......	0·09	0·57	......	......	......	......	2	0·66	1·13	0 82	61·99	53·18
		Bishenpore .	......	0·03	0·91	......	......	......	......	2	0 94	0·94	0·55	58 43	53·40
		Maliara .	......	0·10	0 46	......	......	......	......	2	0·56	0·.9	0·19		52·76
		Khatra ..	......	......	0·80	......	......	......	......	1	0·80	0 90	0·41	66·81	54·27
		Indas	......	......	0 25	......	......	......	......	2	0·25	0·34	?	45 46	?
		Kotalpore	......	......	0·81	......	......	......	......	1	0·81	0 81	?	49 31	?
		Anda	......	0 40	......	......	......	......	......	1	0·40	0·40	?	49 84	?
		Gangajalghati	......	0 12	0·50	......	......	......	......	2	0·62	0·73	?	59 90	?
		Raspore ..	......	......	0·25	......	......	0 52	......	2	0·77	0 77	?	59 12	?
		Sonamukhi	......	......	0·35	......	......	......	......	1	0·35	0·35	?	54·79	?
	Beerbhoom	Sh. Soory	......	0·07	0·17	......	......	......	......		0·24	0·59	0·42	59·85	55·05
		Hetampore	0·04	0·34	......	......	......	......	......		0·38	0·60	0·13	47·76	55·40
		Rampore Haut	......	......	......	......	......	......	......	Nil	Nil	0·07	0·40	47·85	52·77
		Bolpore .	......	......	0 36	......	......	......	......	1	0·36	0·45	?	55·40	?
		Murarai ...	......	0·47	......	......	......	......	......	1	0·47	0·47	?	53 57	?
	Nuddea ..	Ranaghat	......	0·49	0·06	......	......	......	......	2	0·55	0·55	0·58	56·65	46·55
		Kishnaghur .	......	......	0·20	......	......	......	......	1	0 20	0·20	0·49	43 15	47·57
		Chooadanga	......	......	0·25	......	......	......	......	1	0·25	0 25	0·82	50·11	52·96
		Meherpore ...	......	......	0· 2	......	......	......	......	1	0·22	0·20	0 94	55·44	49·45
		Kooshtea	......	......	0·10	......	......	0·19	......	2	0·29	0·44	0·87	56·50	56·39
	Khoolna ..	Satkhira .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·96	54·54	57·04
		Bagirhat ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·64	55 48	63·46
		Khoolna .	......	......	......	......	......	......	......	Nil	Nil	0 23	1·00	57·07	56·94
		Nakipur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Rampal ...	......	......	......	......	......	......	......	Nil	Nil	0·28	?	?	?
	Jessore ...	Narail ..	......	0·12	0·03	......	......	......	......	2	0·15	0·15	0·62	52·16	47 78
		Jessore ..	......	0·30	0·05	......	......	......	......	2	0·35	0 35	0·99	64 25	56·43
		Jhenidah ..	......	......	0·20	......	......	......	......	1	0·20	0·20	1·13	50·94	55·58
		Magoorah ..	......	......	0·15	......	......	......	......	1	0·15	0 19	0 84	57 09	51·06
		Bongong ..	......	0·25	0·05	......	......	......	......	2	0·30	0·30	0·72	47·04	53·59
	Moorshedabad	Kandi ..	......	......	0· 0	......	......	......	......	1	0·10	0·35	0 32	55·75	52·39
		Berhampore...	......	......	0 05	......	......	......	......	1	0·05	0·20	0 55	46·48	56·66
		Lalbagh ...	......	......	......	......	......	......	......	Nil	Nil	0·05	0 37	47·15	51·54
		Azimgunge ...											0 41		52·37
		Jungipore ..	......	0·19	......	......	......	......	......	1	0·19	0·33	0 55	55·54	50·17
		Lalgola ..	......	......	......	......	......	......	......	Nil	Nil	0·04	0·37	50·06	51·96
		Jiagunge ..	......	......	......	......	......	......	......	Nil	Nil	0·10	?	43·39	?
		Akhrigunj ..	......	......	......	......	......	......	......	Nil	Nil	0·06	?	43·12	?
		Patkabari	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
EAST BENGAL	Chittagong ..	Cox's Bazar ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·89	125·59	137·19
		Chittagong ..	......	......	......	......	0·03	......	0·62	2	0 65	0·74	0·81	77·73	96·19
		Kutubdia ...	0·15										?		?
		Satkania ...	......	......	......	......	......	......	0·20	1	0 20	0·20	?	63·86	?
	Chittagong Hill Tracts.	Rangamati ...	......	......	......	......	0·14	0·80	0·96	3	1·90	1·90	1 81	65 90	86·15
		Rama ...											1·12		82·39
	Backergunge	Patuakhally ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0 40	87·66	80·42
		Perozepore ...	......	......	0 11	......	......	......	......	1	0 11	0·31	0 79	72·76	72·16
		Burrisal ...	......	......	......	......	......	0·47	......	1	0·47	0 47	1·00	78·68	80·81
		Bhola ...	......	......	......	......	......	0·07	......	1	0·07	0·07	1·08	80·16	84·87

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 8th March.	Sunday, 9th March.	Monday, 10th March.	Tuesday, 11th March.	Wednesday, 12th March.	Thursday, 13th March.	Friday, 14th March.	Total: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
East Bengal—concld.		*Gournaddi* ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	61·31	?
		Bauphal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	93·12	?
	Noakholly ...	Noakholly ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·52	102·58	130·28
		Fenny .	......	......	......	......	......	......	......	Nil	Nil	0·29	1·82	79·45	109·73
		Harishpore ...	......	......	......	......	0·02	......	......	1	0·02	0·02	?	81·34	?
		Ramganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·41	62·98	57·93
		Furreedpore ..	......	0·25	......	......	......	......	......	1	0·25	0·25	1·3.	65·85	58·98
		Goalundo .	......	......	0·10	......	......	......	......	1	0·10	0·10	0·94	58·15	55·10
	Dacca ...	Munshigunge	......	......	0·73	0·12	......	0·08	......	3	0·93	0·93	1·23	78·44	72·34
		Dacca .	......	......	0·05	......	......	......	......	1	0·05	0·05	0·90	76·50	60·49
		Narainganj	......	......	0·09	......	......	......	......	1	0·09	0·09	1·31	81·23	62·25
		Manickgunge	......	......	0·08	......	......	......	......	1	0·08	0·21	0·56	69·84	51·71
		Joydebpore .	......	......	0·06	......	......	......	......	1	0·06	0·21	?	68·76	?
	Hill Tipperah	Agartola ..	......	0·20	......	......	......	......	......	1	0·20	0·81	1·58	44·89	64·10
	Tipperah ...	Comilla ..	......	......	0·02	0·20	......	......	......	2	0·22	0·22	1·4	63·1[illegible]	78·43
		Chandpore ..	......	......	......	0·55	0·55	......	......	2	1·10	1·10	0·88	67·07	77·56
		Brahmunberia	......	......	......	......	......	......	......	Nil	Nil	0·12	1·34	53·24	64·85
		Ramchandrapore.	......	......	0·14	0·37	......	......	......	2	0·51	0·51	?	61·33	?
		Nasirnagar ...	......	......	0·15	......	......	......	......	1	0·15	0·15	?	32·54	?
		Daudkandi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·74	?
		Kasba ..	......	0·27	......	0·27	......	......	......	2	0·54	0·54	?	62·98	?
		Laksham ..	......	......	......	......	......	0·35	......	1	0·35	0·35	?	69·8[illegible]	?
	Mymensingh..	Kishoregunge	......	......	......	......	......	......	......	Nil	Nil	Nil	0·94	70·80	71·98
		Atia (*Tangail*)	......	......	......	......	......	......	......	Nil	Nil	0·08	0·85	61·77	57·46
		Mymensingh	......	......	0·02	......	......	......	......	1	0·02	0·02	0·81	97·95	75·80
		Jamalpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·55	78·01	65·78
		Netrokona ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·06	126·47	74·96
		Subornakhali	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·43	?
		Durgapore ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	150·23	?
		Sherepore Town	......	......	......	......	......	......	......	Nil	Nil	Nil	?	88·17	?
		Dewanganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·08	?
North Bengal.	Pubna ...	Pubna ...	......	......	0·02	......	......	......	......	1	0·02	0·25	0·90	50·45	55·63
		Seraigunge ..	......	......	......	......	......	......	......	Nil	Nil	0·08	0·56	60·59	54·45
	Bogra ...	Sherepore ...	......	......	......	......	......	......	......	Nil	Nil	0·03	0·44	62·70	58·76
		Nowkhilla ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·43	62·44	55·48
		Bogra ...	......	......	......	......	......	......	......	Nil	Nil	0·08	0·33	71·41	61·77
		Panchbibi .	......	0·03	......	......	......	......	......	1	0·03	0·10	0·25	56·06	56·49
	Rajshahye ...	Beauleah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	46·34	54·11
		Nattore ..	......	......	0·03	......	......	......	......	1	0·03	0·11	0·38	58·95	56·19
		Naogaon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·45	57·87	53·29
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	0·03	?	36·75	?
		Manda .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	45·27	?
	Maldah ...	Maldah .	......	0·04	0·01	......	......	......	......	2	0·05	0·20	0·27	50·79	53·51
		Chanchal ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·12	28·94	57·40
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj ..	......	0·05	0·04	......	......	......	......	2	0·09	0·34	?	52·11	?
	Dinagepore ..	Mohadebpore	......	0·04	......	......	......	......	......	1	0·04	0·12	0·11	53·75	57·14
		Churamon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	51·62	53·25
		Raigunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·17	52·37	58·51
		Dinagepore	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	68·33	64·32
		Balooorghat	......	......	......	......	......	......	......	Nil	Nil	Nil	0·24	61·29	58·16
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	Nil	?	87·51	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·89	88·39	62·76
		Rungpore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·62	74·98	75·88
		Kurigram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·42	91·6	74·07
		Bagdogra (*Nilphamari*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·40	88·49	84·96
		Ulipore ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	79·10	?
	Julpigoree ...	Julpigoree ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·66	123·45	117·94
		Alipore Dooar	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Falliacotta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	129·83	?
		Debiganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	90·94	?
		Bhagalpore (Nagrakatta).	......	......	......	......	......	......	......	Nil	Nil	Nil	?	139·23	?
	Cooch Behar.	Dinhatta .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·42	99·83	99·22
		Cooch Behar ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·43	123·8[illegible]	119·61
		Mustigunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	122·40	106·68
		Matabhanga...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·38	118·03	113·47
	Darjeeling Hill.	Buxa .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·83	192·38	194·84
		Siliguri ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·67	121·02	104·86
		Darjeeling ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·58	128·28	110·15
		Kalimpong	......	......	......	......	......	......	......	Nil	Nil	Nil	0·53	92·15	83·28
		Kurseong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	170·23	?
North Behar	Purneah ...	Kissengunge..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·35	103·87	71·18
		Arrareah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·36	79·75	64·57
		Purneah ..	......	......	......	......	......	......	......	Nil	Nil	0·05	0·18	63·53	63·34
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Matiari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Kaliaganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..	......	......	......	......	......	......	......	Nil	Nil	0·10	0·22	60·95	50·33
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	0·10	0·21	67·36	46·75
		Protabganj ...	......	......	......	......	......	......	......	Nil	Nil	Nil		88·16	?
	Durbhunga ...	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	0·07	0·16	42·65	43·77
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	0·13	0·22	50·37	46·51
		Madhubani ...	......	......	......	......	......	......	......	Nil	Nil	0·08	0·31	63·61	45·74
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	0·13	?	70·09	?
		Rosera ...	......	......	......	......	......	......	......	Nil	Nil	0·05	?	55·89	?
	Mozufferpore	Sitamarhi .	......	......	......	......	......	......	......	Nil	Nil	0·04	0·47	57·40	43·89
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	0·11	0·23	45·53	46·13
		Hajipore ...	......	......	......	......	......	......	......	Nil	Nil	0·07	0·13	42·89	42·65
		Para ...	......	......	......	......	......	......	......	Nil	Nil	0·20	?	37·89	?
		Manua ...											?		?
		Sirhar ...	......	......	......	......	......	......	......	Nil	Nil	0·10	?	?	?
		Papri ...	......	......	......	......	......	......	......	Nil	Nil	0·34	?	48·48	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890—*concld.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 8th March.	Sunday, 9th March.	Monday, 10th March.	Tuesday, 11th March.	Wednesday, 12th March.	Thursday, 13th March.	Friday, 14th March.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·26	75·53	45·45
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	0·28	53·69	43·87
		Bagaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	?	70·44	?
		Burhurwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	?	51·93	?
	Sarun	Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·25	0·05	35·73	44·17
		Chuprah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	0·11	44·43	41·80
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·29	40·85	41·13
		Dehree	.....	0·03	.....	.....	.....	.....	.....	1	0·03	0·30	0·15	47·74	39·18
		Bhabooah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·61	44·97	40·87
		Sasseram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	0·43	38·56	41·39
		Arrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·85	0·16	30·81	41·34
		Mohanish	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·19	42·80	40·29
			.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·13	?	?	?
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·21	35·62	43·46
		Gya											0·18		43·35
		Nowadah	.....	0·03	.....	.....	.....	.....	.....	1	0·03	0·08	0·28	30·67	40·86
		Jehanabad	.....	0·03	.....	.....	.....	.....	.....	1	0·03	0·23	0·16	33·70	40·75
		Arwal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	34·49	?
		Dandnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·69	?
		Sherrghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·29	?
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	?	17·04	?
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna	Patna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·11	31·56	42·32
		Dinapore											0·16		41·26
		Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·22	41·29	42·73
		Barh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·19	36·03	40·43
		Bickram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	?	41·48	?
		Hilsa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	?	35·84	?
	Monghyr	Begoosrai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·12	47·75	40·97
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	41·77	42·25
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0 2·	39·58	43·36
		Gogri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·19	?
		Sheikpura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·31	?
	South Bhagulpore	Bhagulpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	45 06	42·39
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	0·21	38·46	44·46
		Kniga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·97	?
		Bongaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·20	39·97	52·72
		Godda	.....	0·30	0·10	.....	.....	.....	.....	3	0·40	0·70	0·21	42·74	46·26
		Pakour	.....	0 04	.....	.....	.....	.....	.....	1	0·04	0·19	0·27	73·78	55·94
		Nya Dumka	.....	0·08	0·07	.....	.....	.....	.....	2	0·15	0·31	0·40	37 08	54·61
		Deoghur	.....	.....	0·05	.....	.....	.....	.....	1	0·05	0 43	0·34	40·32	51 60
		Jamtara	.....	0·13	0·16	.....	.....	.....	.....	2	0·29	0·80	0·51	46·01	50·10
		Mohagama											?		?
		Namkat											?		?
Chutia Nagpur.	Hazaribagh	Pachumba (*Giridi*)	.....	0·09	0·08	.....	.....	.....	.....	2	0·17	0·34	0·66	39·24	48·61
		Hazaribagh	.....	0·27	0·14	.....	.....	.....	.....	2	0·41	0·41	0·48	49·51	48 27
		Semtagurah	0·20	0·30	.....	.....	.....	.....	.....	2	0·50	0·74	0·93	36·98	49·25
		Mahudi Hills	..										0·62		49·30
		Jhoomra Hills	.	0·20	.....	.....	.....	.....	.....	1	0·20	0·40	0 73	43·40	54·03
		Barhi	.....	0·07	.....	.....	.....	.....	.....	1	0·07	0·67	?	32·03	?,
		Chatra	.....	0·25	0·10	.....	.....	.....	.....	2	0 35	1·05	?	47·09	?
		Karagdeha	.....	0·06	0·05	.....	.....	.....	.....	2	0·11	0 70	?	40·05	?
		Kamphar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Lohardugga	Lohardugga	.....	0·25	0·15	.....	.....	.....	.....	3	0·40	1·49	0·46	48·73	53·48
		Ranchi	.....	0·45	.....	.....	.....	.....	.....	1	0·45	2·28	0·66	55 69	53·23
		Palamow	.....	0 17	0·15	.....	.....	.....	.....	2	0·32	0·96	0·54	35·13	44·31
		Silli	.....	0·40	.....	.....	.....	.....	.....	1	0·40	0·40	?	34·30	?
		Bahumat											?		?
		Hossenabad	.....	.....	0·10	.....	.....	.....	.....	1	0·10	0·39	?	44·79	?
		Garwah	.....	0·12	0·09	.....	.....	.....	.....	2	0·21	0·66	?	29·48	?
	Singbhoom	Chyebassa	.....	0·02	.....	.....	0·58	0·24	.....	3	0·84	0·94	0·67	49·70	53·21
		Chakradharpore.											?		?
		Ghutsilla	.....	0·33	.....	.....	0·26	0·31	.....	3	0·· 0	1·00	?	50·70	?
		Baharagura	.....	.....	0·42	.....	0·30	0·32	.....	..	0·.7	0·97	?	54·77	?
	Manbhoom	Purulia	.....	0·19	0·20	.....	.....	.....	.....	2	0·39	0·77	0·37	44·39	50·67
		Gobindpore	.....	0·13	0·17	.....	.....	.....	.....	2	0·30	0·63	0·31	34·02	46 39
		Kashinathpore.	.....	0·41	.....	.....	.....	.....	.....	1	0·41	0·41	?	46·33	?
		Barrabhoom	.....	0·04	1·00	.....	.....	.....	.....	2	1·04	1·30	?	45·53	?
		Jhalda	.....	0·38	.....	.....	.....	.....	.....	1	0·38	0·38	?	51·90	?
		Chas	.....	0·29	0 17	.....	.....	.....	.....	2	0·46	0·86	?	59·42	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 18*th March* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 14TH OF MARCH 1890.

It has been shown in the report for the previous week that the changes of pressure and of temperature had been decidedly irregular and in many cases rather large. Hence disturbed conditions had prevailed over the greater part of the province of Bengal, and rather numerous local storms had occurred on two or three days, in many instances accompanied by rain. At the commencement of the present week, conditions looked a little more settled, and on the 8th the pressure changes were generally small except over a part of South-West Bengal and Orissa, where there was a rather decided fall. The temperature on this day had risen slowly at most stations by about one to two degrees. Winds on the 8th were generally westerly and south-westerly and light in force, but by the morning of the 9th a decided change had set in, and in many cases at neighbouring stations winds were almost of opposite direction. There had on this day been a rather rapid rise of the barometer at the central stations and a fall to the east and west, while also large and irregular changes of temperature were recorded, pointing to the fact that again conditions were becoming disturbed over the province. That such was the case was shown by the fact that a very considerable series of local storms occurred from the 9th to the morning of the 10th, and rain was reported on the morning of the latter date at almost all stations in Orissa, South-West Bengal, and Chutia Nagpur; the falls in some cases being decidedly heavy. A very rapid fall of temperature took place on the morning of the 10th, and at many stations temperature became from 6° to 10° below the normal. On this day the barometric changes were fairly uniform and pressure was generally falling, but still wind directions were very variable, showing that conditions were still in a disturbed state, and a second series of numerous local storms occurred, so that on the 11th again many stations reported rain. On this date an extremely rapid fall of pressure had taken place, equalling about a seventh of an inch at many of the northern stations, and averaging generally considerably over a tenth, and pressure became so low over North Bengal and North Behar that a distinct barometric depression was almost formed. Again, therefore, on this day conditions were disturbed in Bengal, and local storms were very numerous, and the only district which reported no rain on the 12th was Behar. Conditions continued slightly disturbed on the 12th, and again showers were reported on the 13th; but on this day conditions were a little more settled than they had been for some time previous, and on the 14th only three or four local storms were reported. Even up to the close of the week, however, conditions continued distinctly abnormal, and on the 14th over North Bengal and North Behar pressure was from a fourth to a fifth of an inch below the normal, while generally over the province the defect equalled about a seventh of an inch. Temperature, on the other hand, was from 2° to 3° above the normal over parts of the province, particularly in the northern and central districts, and below it elsewhere, the defects rising up to an average of about two degrees in Orissa. Wind directions, however, had become more steady, and they were generally westerly and south-westerly.

Pressure.—The mean pressure for the week has been very decidedly below the normal, the usual defect ranging between eight and twelve-hundredths of an inch. The defects have been smallest in the south of Chutia Nagpur and Orissa, where they have equalled about seven-hundredths of an inch, and largest in North Bengal and North Behar, where the average defect is about twelve-hundredths of an inch.

Temperature.—Owing to the frequency of local storms with rain, the mean temperature for the month has generally been below the normal, the defect for the province averaging one degree. The variations from the normal have been a little unequal, and while in South-West Bengal and Chutia Nagpur there has been a defect of about two degrees, in North Bengal, Orissa, and East Bengal temperature has either been normal or only slightly below it.

The actual temperatures during the week, the range from day to night, and their variation from their normal values, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given, together with their normal values. It will be seen that the defect has been principally in the day temperatures, which have been as much as from 3° to 5° below the normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 14th March 1890.

	Normal mean maximum temperature for the week ending 14th March.	Actual mean maximum temperature for the week ending 14th March 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 14th March.	Actual mean minimum temperature for the week ending 14th March 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 14th March.	Actual mean daily temperature for the week ending 14th March 1890.	Variation of actual mean from the normal.
Cuttack	86·1	83·5	—2·6	71·4	71·7	+0·3	83·8	81·6	—1·2
Calcutta	89·8	86·6	—3·2	66·9	67·4	—1·5	79·4	77·0	—2·4
Dacca	89·7	87·5	—2·2	67·6	65·9	—1·7	78·6	76·7	—1·9
Burdwan	91·7	89·7	—3·0	68·0	67·2	—0·8	80·3	78·4	—1·9
Patna	89·5	87·8	—1·7	63·0	63·8	+1·3	75·7	75·5	—0·2
Gya	92·1	87·1	—5·0	64·2	64·1	—0·1	78·2	75·6	—2·6
Purneah	88·7	86·1	—2·6	68·5	67·4	—1·1	78·6	76·7	—1·9
Hazaribagh	86·7	81·9	—4·8	62·3	61·5	—0·8	74·5	71·6	—2·9
Darjeeling	56·9	54·8	—1·2	41·5	39·2	—2·0	48·7	46·7	—2·0

Rainfall—Has been decidedly more important than for some weeks past. The heaviest average falls have occurred in Orissa, which has received 1·16 inches; South-West Bengal and Chutia Nagpur have received an average fall of 0·40 inch, and East Bengal one of 0·26 inch. The falls in the other districts have, however, been so small as to be quite unimportant. Compared with the normal, Orissa has received a large excess for the week, South-West Bengal a decided excess, and Chutia Nagpur a slight excess; but in all other districts the rainfall has been in rather large defect of the normal.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of March 1890 :—

Meteorological Divisions.	Temperature						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94·4	61·6	88·3	72·1	80·2	—0·2	1·16	0·27	+0·89	2·5	0·6	+1·9	1·21	0·46	63·36	54·82
South-West Bengal ...	94·3	56·7	88·1	67·4	77·8	—1·6	0·40	0·27	+0·13	1·5	0·6	+0·9	0·50	0·63	58·31	53·65
East Bengal	91·1	57·6	85·8	66·4	76·4	—0·6	0·26	0·45	—0·19	0·9	0·7	+0·2	0·30	1·13	78·90	76·44
North Bengal	94·0	49·4	88·0	60·1	74·0	0	0·01	0·20	—0·19	0·2	0·5	—0·3	0·04	0·40	73·58	71·40
North Behar*	91·3	49·9	86·4	57·7	72·0	—1·3	Nil	0·09	—0·09	0·0	0·4	—0·4	0·10	0·23	58·00	49·45
South Behar	93·2	57·0	87·6	64·1	75·9	—0·7	0·04	0·11	—0·07	0·5	0·5	0	0·24	0·25	44·42	44·55
Chutia Nagpur	86·2°	56·9°	81·4°	61·1°	71·2°	—2·8°	0·40	0·36	+0·04	2·0	0·7	+1·3	0·97	0·56	44·05	50·80

* Durbhanga and Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 18th March 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th March 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Mar. 1890 ...	9th ...	29·964	74·9	85·0	20·3	64·7	77·8	67·2	·526	60·4	55	.....
,, ,, ...	10th ...	·973	75·0	85·0	20·1	64·9	72·6	68·6	·647	66·3	81	0·21
,, ,, ...	11th ...	·884	79·5	90·0	21·1	68·9	82·1	75·5	·796	72·4	73	.....
,, ,, ...	12th ...	·864	79·5	90·0	21·1	68·9	81·6	76·0	·824	73·4	77	0·06
,, ,, ...	13th ...	·814	78·1	88·0	19·9	68·1	79·6	73·6	·749	70·6	74	0·15
,, ,, ...	14th ...	·796	80·4	91·0	21·2	69·8	84·6	69·6	·523	60·2	44	.....
,, ,, ...	15th ...	·794	82·4	92·0	19·2	72·8	82·6	75·0	·767	71·3	69	.....

	Inches.
The mean 10 A.M. pressure of the seven days	29·870
	°
The mean temperature of the seven days	78·5
The extreme variation of temperature	27·3
The maximum temperature	92·0
	%
The mean 10 A.M. relative humidity of the seven days	68
	Inches.
The total fall of rain from 9th to 15th March 1890	0·42

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 17th March 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
March	9th	141·6	4·3	29·899	75·2	84·9	17·2	67·7	67·8	0·586	63·4	69	SSW and variable ...	121	0·18	Chiefly cloudy, o, p, t, ≤.
,,	10th	143·8	4·1	·869	73·8	82·8	18·0	64·8	69·9	·685	68 0	82	SSW and variable ...	57	0·04	Chiefly cloudy, o, d.
,,	11th	146·5	7·2	·797	77·7	88·3	19·8	68·8	72·3	·722	69·5	78	SW, WSW and SSE	92	Nil	Partially cloudy, t, ≏, ≡.
,	12th	146 5	8·8	·787	78·1	87·6	18·9	68·7	73·4	·766	71·2	80	SSW and SW ...	161	0·05	Partially cloudy, o, g, d.
,,	13th	144·0	3·5	·761	78·4	87 5	18 5	69 0	71·6	·687	68·0	72	WSW and SSW ...	94	0·02	Chiefly cloudy, o, t, ≤, d.
,,	14th	150·9	9·4	·724	80·2	90·6	21·4	69·2	70 0	·601	64·2	62	WNW and SSW ...	92	Nil	Chiefly clear, ≏.
,	15th	144 5	8·5	·717	81·0	90·9	17 9	73·0	73·0	·708	68·9	69	SW and SSW ...	146	,,	Partially cloudy.

	Inches.
The mean pressure of the seven days	29·793
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·839
	Hours.
The total number of hours of bright sunshine	45·8
The maximum possible number of hours of sunshine	83·3
	°
The mean temperature of the seven days	77·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	79·4
The extreme variation of temperature	26·1
The maximum temperature	90 9
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot	Approximately 7
	%
The mean relative humidity	73
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	68
	Inches.
The total fall of rain from 9th to 15th March 1890	0·29
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·13
The total fall from 1st January to 15th March 1890	1·09
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·31

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, ≤ lightning, ≏ dew, ≡ fog.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 17th March 1890.

MEMORANDUM.

FROM the annexed table, exhibiting the vital statistics of the principal municipalities in Bengal for the week ending 1st March 1890, it appears—

1. That during the week in question births and deaths were registered in the proportions, respectively, of 18·5 and 20·1 per 1,000 of population, as opposed to 20·6 and 22·2 per 1,000, respectively, during the preceding week ending 22nd February, indicating a retrogression in the registration of both the events.

2. That births and deaths were recorded at the highest rates from the following municipalities:—

Births.

	Ratio per *mille.*
Narainganj	37·3
Durbhanga	31·5
Serampore	31·4
Comillah	30·8
Jessore	30·6

Deaths.

	Ratio per *mille.*
Poori	65·0
Utterpara	37·8
Gya	37·6
Hughli and Chinsurah ...	34·5
Serampore	33·4

3. That the only noticeable point, in connection with the incidence of the following death-causes in comparison with the outcome of the preceding week, is a decrease in the mortality from fever, *vide* table given below—

	Ratio per *mille* during the weeks ending—	
	1st March 1890.	22nd February 1890.
Cholera	2·9	2·6
Small-pox	1·0	1·1
Fever	7·4	9·1
Bowel-complaints	2·5	2·9
Injury	·6	·2
Other causes	5·7	6·3

4. That small-pox was still noticeably severe in the Poori Municipality (mortality 31·5 per 1,000 of population), and bowel-complaints prevailed in Hughli and Chinsurah town (mortality 11·5 per 1,000 of population); while cholera, fever, and the maladies coming under the head of "Other causes" gave rise to the highest mortality in the following municipalities:—

Cholera.

	Ratio per *mille.*
Narainganj	16·6
Comillah	15·4
Monghyr	9·9
Gya	8·9
Dacca	4·5
Bhagulpore	4·5
Durbhanga	3·1
Howrah	2·3

Fever.

	Ratio per *mille.*
Jessore	24·5
Rampore Boauleah ...	23·6

Other causes.

	Ratio per *mille.*
Serampore	13·7
Chupra	12·1
Bhagulpore	10·8
Poori	10·4

5. That the death-rates according to *Sex*, *Class* and *Age* stood as shown below:—

According to Sex.

	Ratio per *mille.*
Males	21·9
Females	18·2
Ratio of male deaths to every 100 female deaths, calculated on the proportions such mortality bears to the total male and female population ...	120

According to Class.

	Ratio per *mille.*
Hindus	21·8
Mahomedans ...	16·4
Buddhists	25·7

According to Age.

	Ratio per *mille.*
Under 1 year ...	127·0
1 and under 5 years ...	21·8
5 „ 10 „ ...	11·8
10 „ 15 „ ...	8·1
15 „ 20 „ ...	14·1
20 „ 30 „ ...	14·3
30 „ 40 „ ...	12·8
40 „ 50 „ ...	20·8
50 „ 60 „ ...	16·1
60 years and upwards ...	57·7

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 17th March 1890.

1	2	3			4			5			6	7							8							9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.															Sex.				
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week	Deaths.		Ratio per 1,000 of Population per annum.		
		Males.	Females.	Total.	Males.	Females	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	19,063	16,017	34,080	7	2	9	10·7	3·0	13·7	350	..	...	4	5	...	...	9	...	...	6·1	7·6	...	...	13·7	29·0	6	3	17·3	9·7	177
Midnapore ...	Midnapore ...	16,927	16,693	33,580	5	1	6	7·7	1·5	9·3	500	...	...	5	2	.	6	13	...	...	7·7	3·1	...	9·3	20·1	15·5	7	6	21·5	18·8	114
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	7	4	11	11·5	6·6	18·1	175	1	1	9	7	...	3	21	1·6	1·6	14·8	11·5	...	4·9	34·5	23·9	12	9	39·3	29·6	133
Serampore ...	Serampore ...	13,569	12,937	26,506	12	4	16	23·6	7·8	31·4	300	...	1	3	3	3	7	17	..	2·0	5·9	5·9	5·9	13·7	33·4	25·3	10	7	38·4	28·1	136
	Utterpara	3,046	2,464	5,510	1	1	2	9·4	9·4	18·9	100	2	...	...	...	...	2	4	19·9	...	...	...	...	18·9	37·8	9·4	3	1	51·2	21·1	242
Howrah ...	Howrah	53,153	37,660	90,813	21	14	35	12·0	8·0	20·0	150	4	..	11	5	1	5	26	2·3	...	6·3	2·9	·6	2·9	14·9	21·8	15	11	14·7	15·2	96
	Bali	7,836	6,979	14,815	3	2	5	10·5	7·0	17·5	150	1	...	3	1	...	3	8	3·5	...	10·5	3·5	..	10·5	28·1	10·5	4	4	26·5	29·8	88
Nuddea ...	Kushnaghur ...	13,363	14,114	27,477	4	5	9	7·6	9·4	17·0	80	...	1	1	...	.	3	5	..	1·9	9·9	...	.	5·6	9·4	15·9	2	3	7·8	11·0	71
	Ranaghat	4,028	4,655	8,683	1	4	5	6·0	23·9	29·9	25	...	...	1	2	...	...	3	...	...	6·0	12·0	...	...	18·0	12·0	2	1	25·8	11·2	231
	Santipore	13,708	15,979	29,687	4	5	9	7·0	8·8	15·8	80	...	...	3	...	...	1	4	...	...	5·3	...	...	1·7	7·0	7·0	3	1	11·4	3·2	350
Jessore ...	Jessore	4,930	3,565	8,495	4	1	5	24·5	6·1	30·6	400	...	...	4	...	...	...	4	...	...	24·5	...	...	...	24·5	42·8	3	1	32·3	14·2	227
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	2	10	21·0	5·3	26·3	400	..	...	9	...	...	1	18		...	23·6	..	...	2·6	26·3	23·6	8	2	35·6	11·5	335
Darjiling ..	Darjiling	4,579	2,439	7,018	2	2	4	14·8	14·8	29·6	100	..	...	1	...	...	2	3	..	...	7·4	...	...	14·8	22·2	...	...	3	...	64·0	No male death.	
Dacca ...	Dacca	42,782	37,379	80,161	16	14	30	10·4	9·1	19·5	114	7	...	6	4	1	9	27	4·3	...	3·9	2·6	·6	5·8	17·5	20·7	16	11	19·4	15·3	127
	Naraingunj ...	7,605	4,956	12,561	3	6	9	12·4	24·8	37·3	50	4	..	1	...	..	1	6	16·6	...	4·1	...	...	4·1	24·8	29·7	4	2	27·4	21·0	130
Chittagong ...	Chittagong ...	13,340	8,790	22,130	4	4	8	9·4	9·4	18·8	100	...		3	1	1	...	5	...	...	7·0	2·3	2·3	...	11·7	4·7	4	1	15·6	5·9	263
Tipperah ...	Comillah	8,153	5,353	13,506	3	5	8	11·5	19·3	30·8	60	4	...	2	...	...	1	7	15·4	...	7·7	...	..	3·8	26·9	53·9	5	2	31·9	19·4	164
Patna	Patna City ...	78,762	81,475	160,237	15	12	27	4·9	3·9	8·8	125	1	...	11	2	1	9	24	·3	...	3·8	·6	·3	2·9	7·8	10·4	14	10	9·2	6·4	143
Gya	Gya	38,290	37,831	76,121	10	13	23	6·8	8·9	15·7	74	13	1	26	4	1	10	55	8·9	·7	17·8	2·7	·7	6·5	37·6	40·3	32	23	43·5	31·6	137
Shahabad ...	Arrah	20,960	22,505	43,465	4	8	12	4·8	9·6	14·4	50	.	...	2	3	3	..	8	...	...	2·4	3·6	3·6	...	9·6	7·2	3	5	7·4	11·6	64
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	8	1	9	9·7	1·2	10·9	800	...	...	4	1	1	4	10	...	...	4·9	1·2	1·2	4·9	12·2	10·9	6	4	13·5	10·8	127
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	13	27	40	10·3	21·2	31·5	48	4	1	13	3	...	11	32	3·1	·8	10·2	2·4	...	8·7	25·3	26·0	18	14	27·7	22·5	123
Saran	Chupra	25,116	26,554	51,670	12	16	28	12·1	16·1	28·2	75	.	..	3	3	...	12	18	..	...	3·0	3·0	...	12·1	18·1	12·1	7	11	14·5	21·5	67
Shagulpore ...	Shagulpore ...	29,[illegible]	27,813	57,453	13	6	19	11·8	5·4	17·2	216	5	...	12	...	..	12	29	4·5	...	10·8	...	...	10·8	26·2	29·0	18	11	31·6	20·6	153
Monghyr ...	Monghyr	28,154	29,366	57,520	19	12	31	17·2	10·8	28·0	158	11	...	8	2	1	9	31	9·9	...	7·2	1·8	·9	8·1	28·0	17·2	14	17	25·9	30·1	86
Purneah ...	Purneah	8,463	6,553	15,016	..	...	...	...	...		...	.	...	1	...	...	...	1	...	...	3·5	...	...	...	3·5	24·2	1	...	6·1	..	No female death.
Poori	Poori	13,457	11,857	24,784	2	6	8	4·2	12·6	16·8	33	3	15	5	3	...	5	31	6·3	31·5	10·4	6·3	...	10·4	65·0	119·6	15	16	58·9	72·1	83
	Total ...	509,986	510,588	1,061,574	201	177	378	9·8	8·7	18·5	113	60	20	151	51	13	116	411	2·0	1·0	7·4	2·5	·6	5·7	39·1	28·2	232	179	21·9	18·2	120

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	9	...	...	...	..	19·3	...	...	...	...	1	..	..	.	1	2	3	...	2	..	25·6	...	...		6·6	15·1	35·3	...	70·2
Midnapore ...	Midnapore ...	..	12	1	...	...	...	24·1	7·2	...	...	...	...	3	..	..	1	4	..	1	4	...	...	21·6	...	...	7·1	37·5		25·2	113·7
Hooghli ...	Hooghli and Chinsurah	..	15	6	.	...	.	30·9	59·6	...	..	1	3	...	1	..	5	1	3	2	5	64·8	76·3			...	41·9	9·1	37·4	40·0	125·4
Serampore ...	Serampore	...	17		...	...	.	35·0	..	..	..	4	..	1	1	1	1	2	3	3	1	293·0	.	20·7	23·4	23·8	9·7	20·9	46·2	81·5	37·4
	Utterpara	..	4	...	...	...	.	39·1	...	...	..	1	1	..	..	..	1	1	..	..	...	333·0	127·5	.	...	...	45·2	49·0	.	...	...
Howrah ...	Howrah	...	23	3	...	...	...	17·6	7·6	...	..	7	3	..	1	..	1	3	3	1	7	176·4	28·2	...	7·9	...	2·3	8·1	13·3	9·5	97·9
	Sali	...	6	2	...	...	...	23·3	79·8	...	..	...	2	..	1	...	...	2	2	...	1	...	104·1	...	43·5	...	...	37·3	53·7		71·0
Nuddea ...	Kishnaghur ..	...	4	1	...	...	.	11·3	6·3	...	...	1	1	..	...	...	2	1	...	...	...	104·8	21·1	.	...	..	21·6	12·1	.	...	...
	Ranaghat	...	2	1	...	...	...	14·2	38·1	...	.	.	...	..	..		1	1	1	...	..	...	...	...	...	...	34·5	41·7	51·6	...	
	Santipore	...	2	1	...	...	...	7·5	5·8	...	...	1	...	...	...	...	2	...	...	...	1	61·9	...	...	...	...	21·2	...	.	...	28·5
Jessore .	Jessore	...	3	1	...	...	..	34·6	13·6	...	...	..	1	...	...	1	..	..	1	1		.	105·3	.	...	71·0	...	...	49·5	92·4	..
Baishalye	Rampore Beauleah ..	...	7	3	...	...	...	36·7	15·9	...	...	1	...	2	1	2	..	...	2	1	1	128·1	...	50·0	28·9	62·6	.	...	42·4	41·9	54·0
Darjiling ...	Darjiling	...	2	1	...	...	..	22·6	85·0	...	...	2	...	...	..	...	...	...	...	...	1	859·5	...	.	...	...	...	...	...	..	307·7
Dacca	Dacca	.	19	8	...	...	..	21·3	10·6	...	...	5	2	3		1	7	3	1	2	3	137·0	14·1	15·7	...	7·1	23·8	13·4	6·2	22·0	28·0
	Narainganj	...	6	...	...	...	...	49·3		...	...	1	...	...	1	...	1	...	1	1	1	186·4	...	...	45·8	...	19·5	..	37·3	66·5	79·8
Chittagong .	Chittagong ..	...	...	4	1	...	...	...	13·6	216·7	...	...	...	...	1	...	...	.	...	2	2	...	.	...	20·3	...	...	..	...	95·9	130·7
Tipperah ...	Comillah	..	..	7	...	...	...	..	49·3	...	...	...	...	...	...	...	2	2	...	...	3	...	...	...	...	...	37·7	83·2	..	...	230·1
Patna	Patna City ...	...	17	7	...	...	...	7·4	5·9	...	...	2	1	...	...	2	5	2	5	1	6	24·1	3·6	..	...	9·3	9·0	4·5	13·8	3·7	23·6
Gya ...	Gya	...	45	9	...	...	...	39·9	29·1	..	...	7	...	6	3	3	8	3	9	5	11	363·4	...	44·6	23·3	29·3	28·3	12·3	47·9	39·6	111·1
Shahabad ...	Arrah	...	3	5	...	...	...	5·0	21·0	...	...	3	1	1	...	...	1	...	...	...	2	121·1	11·7	10·1	..	.	6·6	...	...	...	36·1
Mozufferpore .	Mozufferpore ...	...	9	1	...	...		15·6	6·2	...	...	4	3	1	...	..	1	..	1	...	...	217·8	38·6	11·6	...	...	6·1	...	19·4	...	..
Durbhanga ...	Durbhanga ...	...	23	9	...	...	...	24·7	24·6	...	...	5	4	3	1	2	3	4	5	1	4	167·0	27·3	19·9	9·4	25·9	11·7	18·6	34·9	11·9	65·1
Saran	Chupra	.	14	4	...	...	...	18·4	17·5	...	...	6	1	1	...	...	1	1	...	1	7	221·1	10·1	8·7	...	...	5·6	6·7	...	13·6	107·0
Bhagulpore ..	Bhagulpore ...	...	21	6	...	...	...	27·5	24·1	...	...	5	2	1	1	5	4	3	3	1	4	217·6	19·2	8·9	8·3	62·2	19·0	16·6	24·8	12·2	52·7
Monghyr ...	Monghyr	...	20	11	...	...	...	23·3	45·5	..	...	2	3	1	1	4	6	5	4	...	5	70·0	25·1	7·4	9·1	55·1	30·2	29·1	23·6	...	75·5
Purneah ...	Purneah	...	1	...	...	...	...	5·7	...	...	.	...	.	..	...	...	1	..	...	...	...	...	...	..	...	...	15·8	...		...	...
Poori ...	Poori	...	31	...	...	...	...	65·7	...	...	...	4	10	2	2	1	3	5	3	1	2	686·5	289·4	46·4	55·4	23·0	29·5	38·5	46·9	23·3	57·6
	TOTAL ...	...	317	98	1	...		21·8	16·4	25·7		63	39	25	18	22	58	43	50	24	73	137·0	21·8	11·8	8·1	14·1	14·3	12·8	26·8	16·1	57·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of December 1889.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
3	1. Grain ...	6	14	20	975	20	975	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
19	7. Building materials	3	288	291	464	18	25	
3	8. Miscellaneous ...	.....	21	21	1,135	21	1,135	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
3 rafts	10. Timber No.	.....	99	99	187	99	187	
4 „	11. Bamboos „	.....	2,100	2,100	27	2,100	27	
25 boats 7 rafts.	12. Total ...	9	323 & 2,199 No.	332 & 2,199 No.	2,788	59 & 2,199 No.	2,349	
58 boats 42 rafts.	13. Total of same month last year.	....	1,040 & 32,876 No.	1,040 & 32,876 No.	4,326	141 & 32,876 No.	2,746	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	2	23	25
15. Total number of boats plying passenger No.	4	1	5
15½. Total empty boats	21	9	30
16. Total registered tonnage, cargo, private Tons	10	90	100
16½. Ditto ditto, Government Tons	13	460	473
17. Total registered tonnage, passenger Tons	83	26	109
17½. Ditto ditto, empty Tons	208	78	286
18. Ton-mileage ...	3,458	7,476	10,934
19. Estimated value of cargo Rs.	700	1,874	2,574
20. Number of passengers ...	187	100	287
21. Rafts, bamboos No.	.....	2,100	2,100
22. Do., bullahs „	.....	99	99
23. Estimated value of rafts Rs	.....	214	214
24. Tollage on boats „	34-1-0	91-6-0	125-7-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	15-5-6	15-5-6
27. Total tollage on boats per ton-mile Rs.	.....	...	2·20
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	140 12 6
Total tollage of same month last year ...	413 12 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	12 8 0
2. Tollage per month ...	140 12 6
3. Total ...	153 4 6
4. Amount credited in the accounts of the month ...	152 4 6
5. Balance due at the end of the month ...	1 0 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
92	1. Grain ...	276	431	707	35,130	707	35,130	
1	2. Cotton ...	.....	2	2	500	2	500	
5	3. Oilseeds ...	4	8	12	1,260	12	1,260	
29	4. Salt ...	89	39	128	11,050	128	11,050	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
38	7. Building materials	.....	627	627	7,810	286	6,710	
130	8. Miscellaneous ...	642	694	1,336	2,23,460	1,336	2,23,460	
6	9. Fuel ...	25	.....	25	70	25	70	
5 rafts	10. Timber ...	.....	11,376 c. ft.	11,376 c. ft.	1,520	11,376 c. ft.	1,520	
9 „	11. Bamboos ...	.....	9,387 „	9,387 „	440	9,387 „	440	
301 & 14 rafts.	12. Total ...	1,036	1,801 & 20,763 c. ft.	2,837 & 20,763 c. ft.	2,81,240	2,496 & 20,763 c. ft.	2,80,140	
368 & 18 rafts.	13. Total of same month last year.	915	2,007 & 52,219 No.	2,922 & 52,219 No.	3,04,060	2,717 & 52,219 No.	3,01,990	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	136	165	301
15. Total number of boats plying passenger No.	60	64	124
15½. Ditto empty boats „	225	150	375
16. Total registered tonnage, cargo, private Tons	2,100	2,970	5,070
16½. Ditto ditto, Government „	.....	567	567
17. Total registered tonnage, passenger Tons	2,267	1,669	3,936
17½. Ditto ditto empty boats „	1,704	624	2,328
18. Ton-mileage ...	259,743	221,929	481,672
19. Estimated value of cargo Rs.	194,690	84,590	2,79,280
20. Number of passengers ...	2,541	2,484	5,025
21. Rafts, bamboos C. ft.	.....	9,387	9,387
22. Do., timber „	.....	11,376	11,376
23. Estimated value of rafts Rs.	.....	1,960	1,960
24. Tollage on boats „	2,269-12-5	3,540-10-10	5,810-7-3
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	129-6-3	129-6-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-10-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,939	13	6
Total tollage of same month last year ...	4,932	2	5

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	4,043	13	9
2. Tollage per month ...	5,939	13	6
3. Total ...	9,983	11	3
4. Amount credited in the accounts of the month ...	5,240	14	9
5. Balance due at the end of the month ...	4,742	12	6

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
98	1. Grain ...	278	.....	278	22,890	278	22,890	
2	2. Cotton ...	1	3	4	1,000	4	1,000	
5	3. Oilseeds ...	19	.....	19	1,560	19	1,560	
51	4. Salt ...	.....	161	161	13,470	161	13,470	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
18	7. Building materials	19	128	147	340	19	140	
63	8. Miscellaneous ...	101	57	158	13,920	158	13,920	
16	9. Fuel ...	148	.....	148	410	148	410	
9 rafts	10. Timber ...	13,284 c. ft.	.....	13,284 c. fr.	5,610	13,284 c. ft	5,610	
2 do.	11. Bamboos ...	.....	925 c. ft.	925 „	80	925 „	80	
253 & 1 rafts.	12. Total ...	566 & 13,284 c.ft.	349 & 925 c. ft.	915 & 14,209 c. ft.	59,280	787 & 14,209c ft	59,080	
171 & 7 rafts.	13. Total of same month last year ...	277 & 1,526 No.	196	473 & ,526 No.	36,710	430 & 1,526 No.	36,670	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	164	89	253
5. Total number of boats plying passenger No.	5	4	9
5½. Ditto empty boats „	77	158	235
6. Total registered tonnage, cargo, private Tons	1,100	485	1,585
6½. Ditto ditto, Government „	.....	245	245
7. Total registered tonnage, passenger Tons	78	70	148
7½. Ditto empty boats „	367	551	918
8. Ton-mileage ...	35,612	29,474	65,086
9. Estimated value of cargo Rs.	32,490	21,100	53,590
0. Number of passengers ...	60	47	107
1. Rafts, bamboos C. ft.	.....	925	925
2. Do., timber „	13,284	.....	13,284
3. Estimated value of rafts Rs.	5,610	80	5,690
4. Tollage on boats „	326-7-2	221-6-4	547-13-6
5. Compounded tollage on boats Rs.	.....	.....	.....
6. Tollage on rafts „	156-6-3	3-5-0	159-11-3
7. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·6
8. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-2-0

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	707 8 9
Total tollage of same month last year	445 14 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	301 6 6
2. Tollage per month ...	707 8 9
3. Total ...	1,008 15 3
4. Amount credited in the accounts of the month	645 12 8
5. Balance due at the end of the month ...	363 2 7

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
30	1. Grain ...	76	3	79	4,039	79	4,039	
5	2. Cotton ...	½	4	4½	730	4½	730	
1	3. Oilseeds ...	.....	1	1	56	1	56	
7	4. Salt ...	.....	25	25	3,500	25	3,500	
20	5. Piece-goods ...	.....	21	21	5,880	21	5,880	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
11	7. Building materials	... ..	110	110	47	.....	.....	
15	8. Miscellaneous ...	10	48	58	7,055	46	6,951	
1	9. Fuel ...	.....	5½	5½	16	.....	... ..	
18 rafts	10. Timber, 865 No....	.....	5,190 c. ft.	5,190 c. ft.	2,595	5,190 c. ft.	2,595	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
90 & 18 rafts.	12. Total ...	86½	217½ & 5,190 c. ft.	304 & 5,190 c. ft.	23,918	176½ & 5,190 c. ft.	23,751	
68 & 8 rafts.	13. Total of same month last year.	105½ & 96 c. ft.	169 & 3,738 c. ft.	274½ & 3,834 c. ft.	18,120	267½ & 3,834 c. ft.	18,068	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	32	58	90
15. Total number of boats plying passenger No.	... ..	1	1
15½. Ditto empty boats „	30	68	98
16. Total registered tonnage, cargo Tons	173	119	292
16½. Ditto Govt. do. „	.....	224	224
17. Total registered tonnage, passenger Tons	.....	5	5
17½. Ditto empty boats „	158	179	337
18. Ton-mileage	4,302	7,240	11,542
19. Estimated value of cargo Rs.	4,552	16,771	21,323
20. Number of passengers ...	151	262	413
21. Rafts, bamboos C. ft.	... ..	.....	.....
22. Do., bullahs „	.....	5,190	5,190
23. Estimated value of rafts Rs.	.....	2,595	2,595
24. Tollage on boats „	51-15-9	88-12-0	140-11-9
25. Compounded tollage on boats Rs.	.....	... ..	.....
26. Tollage on rafts „	.....	43-9-0	43-9-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·34
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-5

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	184 4 9
Total tollage of same month last year ...	149 13 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	24 3 6
2. Tollage per month ...	184 4 9
3. Total ...	208 8 3
4. Amount credited in the accounts of the month ...	208 8 3
5. Balance due at the end of the month ...	Nil.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain ...	15½	.....	15½	870	15½	870	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
2	4. Salt ...	5	3	8	940	8	940	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
4	7. Building materials	.....	35	35	113	.....	.....	
3	8. Miscellaneous ...	.....	19	19	2,494	19	2,494	
...	9. Fuel ...	.....	.....	.....	...	.....	.....	
16 rafts	10. Timber, No. 310	.....	1,860 c. ft.	1,860 c. ft.	651	1,860 c. ft.	651	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
16 & 16 rafts.	12. Total ...	20½	57 & 1,860 c. ft.	77½ & 1,860 c. ft.	5,068	42½ & 1,860 c.ft.	4,955	
24 & 3 rafts.	13. Total of same month last year.	52	26 & 330 c ft.	78 & 330 c. ft.	4,443	68 & 330 c. ft.	4,408	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	8	8	16
15. Total number of boats plying passenger No.	.....	.....	.....
15½. Ditto of empty ditto „	11	12	23
16. Total registered tonnage, cargo Tons	41	44	85
16½. Ditto of Govt. ditto „	.....	70	70
17. Total registered tonnage, passenger Tons	.....	.....	.....
17½. Ditto of empty ditto „	47	22	69
18. Ton-mileage ...	1,301	1,850	3,151
19. Estimated value of cargo Rs.	1,454	2,963	4,417
20. Number of passengers ...	235	223	458
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	1,860	1,860
23. Estimated value of rafts Rs.	.....	651	651
24. Tollage on boats „	15-2-9	22-15-0	38-1-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	15-7-9	15-7-9
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·32
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-4

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	53 9 6
Total tollage of same month last year	38 3 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	13 15 3
2. Tollage per month ...	53 9 6
3. Total ...	67 8 9
4. Amount credited in the accounts of the month ...	67 8 9
5. Balance due at the end of the month ...	Nil

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
...	1. Grain ...	.....	...	.....	... .	.....	... ..	
...	2. Cotton ...	. ...	.....	.....	... ..	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
...	4. Salt ...	.....	.....	.....	.....	... ..	.....	
...	5. Piece-goods ...	.....	.....	.....	...	...	.....	
...	6. Metal ...	... ..	.....	... ..	.....	.....	.. ...	
...	7. Building materials	.....	.....	.....	.. ...	.....	.....	
13	8. Miscellaneous ...	.....	10½	10½	2,450	10½	2,450	
1	9. Fuel ...	4	.....	4	55	4	55	
17 rafts.	10. Timber, 531 No.	.....	3,186 c. ft	3,186 c. ft.	415	3,186 c. ft.	415	
...	11. Bamboos .	.. ...	...	.....	. ...	... .	.. ...	
14 & 17 rafts.	12. Total ...	4	10½ & 3,186 c. ft.	14½ & 3,186 c. ft.	2,920	14½ & 3,186 c ft.	2,920	
8 & 12 rafts.	13. Total of same month last year.	16 & 1,890 c. ft.	3	16 & 1,890 c. ft	980	16 1,890 c ft	980	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1	13	14
15. Total number of boats plying passenger No.	.....	... ..	.....
15½. Ditto empty ditto „	21	2	23
16. Total registered tonnage, cargo Tons	.....	28	28
16½. Ditto Govt. ditto „	.....	.....	... ..
17. Total registered tonnage, passenger Tons	... ..	.....	... ..
17½. Ditto empty ditto „	14	1	15
18. Ton-mileage ...	132	130	262
19. Estimated value of cargo Rs	55	2,450	2,505
20. Number of passengers ...	.....	.....	.....
21. Rafts, bamboos C. ft.	.. ...	.....	.....
22. Do., bullahs „	.....	3,186	3,186
23. Estimated value of rafts Rs.	.....	415	415
24. Tollage on boats „	2-7-0	3-2-0	5-9-0
25. Compounded tollage on boats Rs.	.....	... ..	.. ...
26. Tollage on rafts „	.....	8-5-3	8-5-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·07
28. Total tollage on rafts per 100 cubic feet Rs	.....	.. ...	0-4-2

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	13 14 3
Total tollage of same month last year	9 7 11

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	15 8 0
2. Tollage per month ...	13 14 3
3. Total ...	29 6 3
4. Amount credited in the accounts of the month ...	29 6 3
5. Balance due at the end of the month ...	Nil

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
888	1. Grain ...	5,013	365	5,378	2,87,160	5,378	2,87,160	
...	2. Cotton ...	.....	3	3	1,300	3	1,300	
15	3. Oilseeds ...	125	47	172	15,481	172	15,481	
89	4. Salt ...	...	710	710	74,522	710	74,522	
9	5. Piece-goods ...	7	83	90	2,44,630	90	2,44,630	
19	6. Metal	122	79	201	1,86,560	201	1,86,560	
12	7. Building materials	77	6	83	1,785	83	1,785	
288	8. Miscellaneous ...	724	630	1,354	4,05,664	1,354	4,05,664	
18	9. Fuel ...	95	93	188	2,445	188	2,445	
66 rafts	10. Timber ...	15,497 c. ft.	84 c. ft.	15,581 c. ft.	7,619	15,581 c ft	7,619	
9 „	11. Bamboos ...	2 100 „	125 „	2,225 „	218	2,225 „	218	
1,338 & 75 rafts.	12. Total ..	6,161 & 17,597 c. ft.	2,016 & 209 c ft.	8,179 & 17,806 c. ft	12,27,384	8,179 & 17,806c.ft.	12,27,384	
1,658 & 89 rafts.	13. Total of same month last year.	6,884 & 29.801 c. ft.	2,010 & 28 c. ft	8,894 & 29,829 c. ft.	10,76,485	8,894 & 29,829 c.ft.	10,76,485	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,074	264	1,338
15. Total number of boats plying passenger No.	460	658	1,118
15½. Ditto empty „	514	766	1,280
16. Total registered tonnage, cargo Tons	14,229	3,826	18,055
17. Total registered tonnage, passenger Tons	3,964	4,105	8,069
17½. Ditto empty „	2,319	3,429	5,748
18. Ton-mileage	438,902	230,398	669,300
19. Estimated value of cargo Rs.	6,69,267	5,50,280	12,19,547
20. Number of passengers ...	3,426	9,303	12,729
21. Rafts, bamboos C. ft.	2,100	125	2,225
22. Do., bullahs „	15,497	84	15,581
23. Estimated value of rafts Rs	7,614	223	7,837
24. Tollage on boats „	7,026-8-6	3,616-2-0	10,642-10-6
25. Compounded tollage on boats Rs	.....	.....	...
26. Tollage on rafts „	239-6-3	0-14-3	240 4-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	... ..	.....	1-5-6

	Rs. A. P.
Total tollage of month—24+25+26 ...	10,882 15 0
Total tollage of same month last year ..	13,272 0 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	5,310 11 10
2. Tollage per month ...	10,882 15 0
3. Total ..	16,193 10 10
4. Amount paid into treasury during the month	9,306 15 9
5. Balance due at the end of the month ...	6,886 11 1

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees	
749	1. Grain ...	3,919	144	4.063	2,37,557	4,063	2,37,557	
...	2. Cotton ...		...	.....	.....	.....	...	
5	3. Oilseeds ..	...	7	7	600	7	600	
14	4 Salt ...	... ..	128	128	14,360	128	14,360	
...	5. Piece-goods ...	... .	... ..	... ..	.....	.....	... .	
1	6. Metal .	.....	1	1	140	1	140	
13	7. Building materials	9	47	56	1,939	56	1,939	
797	8. Miscellaneous ...	346	277	623	67,902	623	67,902	
12	9. Fuel ...	31	128	159	1,965	88	1,115	
10 rafts	10. Timber ...	126 c ft.	416 c. ft.	542 c. ft.	655	542 c ft.	655	
...	11. Bamboos ...	.....	.....	.....	.	.....	... .	
1,591 & 10 rafts	12. Total ..	4,305 & 126 c. ft.	732 & 4 6 c. ft.	5,037 & 542 c. ft.	3,25,118	4,966 & 542 c ft	3,24,268	
1,187 & 16 rafts.	13. Total of same month last year.	2,523 & 596 c. ft.	500 & 6,974 c ft	3.023 & 7,570 c. ft.	1,86,749	3,003 & 7,570 c. ft.	1,86,574	

		Up.	Down	Total.
14.	Total number of boats plying cargo No.	888	703	1,591
15.	Total number of boats plying passenger No.	58	35	93
16.	Total registered tonnage, cargo Tons	8,768	3,630	12,398
17.	Total registered tonnage, passenger Tons	461	385	846
18.	Ton-mileage	129,792	64,226	194,018
19.	Estimated value of cargo Rs.	2,40,127	84 336	3,24,463
20.	Number of passengers ...	927	1,361	2,288
21.	Rafts, bamboos C. ft.	... ..	.....	.....
22.	Do., bullahs ,,	126	416	542
23.	Estimated value of rafts Rs.	250	405	655
24.	Tollage on boats ,,	2,271-6-3	1,122-4-0	3,393-10-3
25.	Compounded tollage on boats Rs.	0 5-6	... ..	0-5-6
26.	Tollage on rafts ,,	1-14-0	4-12-6	6-10 6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-3-7

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	3,400	10	3
Total tollage of same month last year	2,371	3	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,636	12	9
2. Tollage per month ...	3,400	10	3
3 Total ...	5,037	7	0
4. Amount paid into treasury during the month	2,298	0	3
5. Balance due at the end of the month	2,739	6	9

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
14	1. Grain ..	.....	134	134	7,953	134	7,953	
...	2. Cotton ...	.. ...	.....	.....	... ..	...	.. ...	
17	3. Oilseeds ...	.....	250	250	25,704	250	25,704	
3	4. Salt ...	75	.....	75	6,870	75	6,870	
21	5. Piece-goods ...	144	2	146	25,640	146	25,640	
...	6. Metal ...	8	1	9	17.030	9	17,030	
25	7. Building materials	100	114	214	1,830	95	1,255	
37	8. Miscellaneous ..	96	92	188	41,784	185	41,774	
...	9. Fuel rafts	.....	271	271	1 600	271	1,600	
13	10. Timber { boat	147	. ... .	147	6,072	1	180	
	rafts	.....	167	167	1,975	167	1,975	
2	11. Bamboos { boat	24	.....	24	450	24	450	
	rafts	.....	326	326	4,582	326	4,582	
132	12. Total ...	594	1,357	1,951	1,41,490	1,683	1,35,013	
146	13. Total of same month last year ...	421	1,151	1,572	1,08,338	1,176	1,07,761	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	58	74	132
15. Total number of boats plying passenger No.	6	8	14
15½. Ditto empty ditto „	48	18	66
16. Total registered tonnage, cargo Tons	889	951	1,840
17. Total registered tonnage, passenger Tons	150	208	358
17½. Ditto empty boats „	246	107	353
18. Ton-mileage ...	80,003	1,03,635	1,83,638
19. Estimated value of cargo Rs.	47,219	86,114	1,33,333
20. Number of passengers ...	397	406	803
21. Rafts, bamboos C. ft.	.....	48,897	48,897
22. Do., bullahs „	.....	32,827	32,827
23. Estimated value of rafts Rs.	.....	8,157	8,157
24. Tollage on boats „	538-3-0	580-1-3	1,118-4-3
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts „	.....	293-4-6	293-4-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-8

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,561	8	9
Total tollage of same month last year ...	1,321	13	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	317	13	4
2. Tollage per month ...	1,561	8	9
3. Total ...	1,879	6	1
4. Amount credited in the accounts of the month	1,479	11	9
5. Balance due at the end of the month ...	399	10	4

SONE CIRCLE.

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up	Down	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks
8	1. Grain ...	.....	169	169	13,833	169	13,833	
...	2. Cotton ...	.....	.....	.....	.....	... ...	.....	
6	3. Oilseeds ...	.....	142	142	15,990	142	15,990	
10	4. Salt ..	109	. ...	109	16,730	109	16,730	
...	5. Piece-goods	14	1	15	20,400	15	20,400	
...	6. Metal ...	1	2	3	26,200	3	36,200	
8	7. Building materials	... ..	71	71	91	60	51	
92	8. Miscellaneous ...	125	596	721	19,019	163	18,611	
10	9. Fuel ..	160	.....	160	1,650	...	... ..	
...	10. Timber ...	... .	..	... ..	.. ...	.. .	...	
Rafts.	Bullahs ...	.....	231	231	1,099	231	1,099	
Rafts.	11. Bamboos .	.....	134	134	1,300	134	1 300	
Rafts.	Firewood ...	.....	623	623	2 913	623	2,913	
134	12. Total ...	409	1,969	2,378	1,19,225	1,649	1,27,127	
146	13. Total of same month last year.	464	1,471	1,935	1,56,932	1,477	1,54,234	

	Up.	Down.	Total
14. Total number of boats plying cargo No.	27	107	134
15. Total number of boats plying passenger No.	1	1	2
15½. Total number of empty boats No	92	11	103
16. Total registered tonnage, cargo Tons	605	1,612	2,217
17. Total registered tonnage passenger Tons	43	46	89
17½. Total registered tonnage, empty Tons	393	50	443
18. Ton-mileage ...	44,047	77,260	121,307
19. Estimated value of cargo Rs.	62,536	61,377	1,23,913
20. Number of passengers ...	564	624	1,188
21. Rafts, bamboos C.ft.	.....	20,230	20,230
22. Do., bullahs ,,	.....	17,318	17,318
22½. Do., firewood ,,	... ..	46,750	46,750
23. Estimated value of rafts Rs.	.....	5,312	5,312
24. Tollage on boats ,,	297-8-9	429-11-0	727-3-9
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts ,,	.....	170-11-9	170-11-9
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·87
28. Total tollage on rafts per 100 cubic feet Rs	... ..	.....	0-3-2

	Rs	A	P.
Total tollage of month—24 + 25 + 26 ..	1,353	15	6
Total tollage of same month last year ...	1,272	2	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	236	4	9
2. Tollage per month ...	1,353	15	6
3. Total ...	1,590	4	3
4. Amount credited in the accounts of the month	1,210	3	6
5. Balance due at the end of the month ...	380	0	9

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
..	1. Grain ...	.....	179	179	14,365	179	14,365	
7	2. Cotton ...	2	1	3	4,960	3	4,960	
...	3. Oilseeds ...	1	161	162	18,455	162	18,455	
...	4. Salt ...	.....	.....	.....	.....	.. ...	... ..	
...	5. Piece-goods ...	.....	.....	.. ...	......	.....	...	
...	6. Metal ...	1	1	2	3,150	2	3,150	
16	7. Building materials	42	165	207	1,430	56	80	
8	8 Miscellaneous ...	4	94	98	6,978	98	6,978	
..	9 Fuel ...	.....	.....	.....	.....	.....	... .	
Rafts	10. Timber ...	.....	2	2	100	2	100	
	11 Bamboos ...	... ..	209	209	4,585	209	4,585	
40	12 Total ...	50	812	862	54,023	711	52,673	
55	13. Total of same month last year.	103	789	892	68,492	811	66,868	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4	36	40
15. Total number of boats plying passenger No.	6	7	13
15½. Ditto empty „	30	11	41
16. Total registered tonnage, cargo Tons	64	1,004	1,068
17. Total registered tonnage, passenger Tons	162	168	330
17½. Ditto empty „	112	45	157
18. Ton-mileage ...	9,635	16,429	26,064
19. Estimated value of cargo Rs.	8,404	40,934	49,338
20. Number of passengers ...	316	372½	688½
21. Rafts, bamboos C. ft.	.....	31,305	31,305
22. Do., bullahs „	.....	146	146
23. Estimated value of rafts Rs.	.....	4,685	4,685
24. Tollage on boats „	73-5-9	122 0-0	195 5 9
25. Compounded tollage on boats Rs	107-0-0	107-0-0	214-0-0
26. Tollage on rafts „	.....	124-15-6	124-15-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0 0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-4

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	534	5	3
Total tollage of same month last year ...	518	12	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1	11	3
2. Tollage per month ...	534	5	3
3. Total ...	536	0	6
4. Amount credited in the accounts of the month ...	474	10	3
5. Balance due at the end of the month ...	61	6	3

ABSTRACT FOR THE MONTH OF DECEMBER 1889 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1889-90.		Traffic, 1888-89.		Remarks.
	During the month	To end of the month.	During the month.	To end of the month.	
Orissa Circle	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	140 12 6	2,831 11 1	413 12 9	1,821 13 6	
Kendrapara Canal System	5,939 13 6	36,440 11 1	4,932 2 5	34,358 5 6	
High Level, Range I ...	707 8 9	5,232 9 4	445 14 0	4,270 13 6	
Ditto „ II ...	184 4 9	2,112 12 0	149 13 6	1,754 15 0	
Ditto „ III	53 9 6	976 2 9	38 3 6	803 7 0	
Jajepore Canal	13 14 3	80 1 11	9 7 11	57 14 9	
Total Orissa Circle .	7,039 15 3	47,674 0 2	5,989 6 1	43,067 5 3	
South-Western Circle.					
Midnapore Canal .	10,882 15 0	1,06,162 11 6	13,272 0 3	1,01,349 7 9	
Hidgellee Tidal Canal ...	3,400 10 3	36,821 5 9	2,371 3 6	44,701 5 0	
Total South-Western Circle	14 283 9 3	1,42,984 1 3	15,643 3 9	1,46,050 12 9	
Sone Circle.					
Patna Canal System ..	1,561 8 9	18,294 7 9	1,321 13 3	19,370 14 9	
Arrah ditto ..	1,353 15 6	13,806 14 8	1,272 2 9	14,949 2 2	
Buxar ditto ...	534 5 3	5,268 5 8	518 12 0	6,775 11 6	
Total Sone Circle ...	3,449 13 6	37,369 12 1	3,112 12 0	41,095 12 5	
Grand Total ...	24,773 6 0	2,28,027 13 6	24,745 5 10	2,30,213 14 5	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1889-90.						Traffic, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds	Rs. A. P.
igh Level	928	1,061	1,009 10 3	5 549	5,867	7,115 4 6	517	759	525 10 10	3,711	2,723	4,127 7 2
Total Orissa Circle ...	928	1,061	1,009 10 3	5,549	5,867	7,115 4 6	517	759	525 10 10	3,711	2,722	4,127 7 2

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1889-90.		Earnings, 1888-89.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	8,049 9 6	54,789 4 8	6,515 0 11	47,194 12 5	
Midnapore Canal ...	10,882 15 0	1.06,162 11 6	13,272 0 3	1,01,349 7 9	
Hidgellee Tidal Canal ...	3,400 10 3	36,821 5 9	2,371 3 6	44,701 5 0	
Sone Canals ...	3,449 13 6	37,369 12 1	3,112 12 0	41,095 12 5	
Total ...	25,783 0 3	2,35,143 2 0	25,271 0 8	2,34,341 5 7	

Calcutta,
The 18th March 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
790	1. Grain ...	2,265	4,220	6,485	3,79,224	6,485	3,79,224	
...	2. Cotton ..	.....	.....	.....	.....	...	...	
11	3. Oilseeds ...	... ..	125	125	16,100	125	16,100	
233	4. Salt ...	2,069	.....	2,069	1,76,962	2,069	1,76,962	
...	5. Piece-goods ...	.....		.....	.....	...	.....	
21	6. Metal*	89·44	11	100·44	62,175	100·44	62,175	
13	7. Building materials	92	31·63	123 63	3,162	123·63	3,162	
482	8. Miscellaneous ...	2,350	6,18 ·63	8,530·63	12,86,235	8,530·63	12,86,235	
79	9. Fuel ...	864	132	996	2,925	996	2,925	
rafts 108	10 Timber ...	880 c. ft.	33,400 c. ft.	34,280 c. ft	1,01,520	34,280 c.ft.	1,01,520	
raft 1	11. Bamboos ...	10 „	. ...	10 „	6	10 „	6	
,029 & 09 rafts.	12. Total ..	7,729·44 & 890 c. ft.	10,700·26 & 33,400 c. ft.	18,429 70 & 34,290 c ft	20,28,309	18,429·70 & 34,290 c.ft	20,28,309	
,954 & 54 rafts.	13. Total of same month last year	7,463 & 241 c. ft.	10,931 & 10,905 c ft.	18,394 & 11,146 c. ft.	24,61,059	18,394 & 11,146 c. ft.	24,61,059	

* 18 Rhands passed up on Matabhanga river.

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	1,049	980	2,029
4a. Empty boats, steamers, &c. No.	423	237	660
5. Total number of boats plying passenger No.	589	621	1,210
5a. Ditto empty boats „	25	15	40
6. Total registered tonnage, cargo Tons	20,277	21,839	42,116
7. Total registered tonnage, passenger Tons	291	226	517
8. Ton-mileage	.....	.....	... ..
9. Estimated value of cargo Rs.	8,12,026	11,14,757	19,26,783
10. Number of passengers No.	2,135	1,738	3,873
11. Rafts, bamboos C. ft.	10	.....	10
12. Do., bullahs „	880	33,400	34,280
13. Estimated value of rafts Rs.	1,326	1,00,200	1,01,526
14. Tollage on boats „	4,430-3-6	5,399-8 0	9,829-11-6
15. Compounded tollage on boats Rs.	.. ...	.... .	.....
16. Tollage on rafts „	6-1-6	626-4-0	632-5-6
17. Total tollage on boats per ton-mile* ...	.....	.....	.....
18. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-13-6

	Rs. A. P.
Total tollage of month—24+25+26 ...	10,462 1 0
Total tollage of same month last year ...	10,053 5 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	457 1 6
2. Tollage per month ...	10,462 1 0
3. Total ...	10,919 2 6
4. Amount paid into treasury during the month ...	10,569 15 0
5. Balance due at the end of the month ...	349 3 6

* Boats in these rivers do not pay per mile.

Abstract for the month of January 1890 *as compared with the corresponding month of the previous year.*

	1889-90. During the month.	1889-90. To end of the month.	1888-89. During the month.	1888-89. To end of the month
	Rs. A. P.	Rs. A P.	Rs. A. P.	Rs. A. P.
Tollage	10,462 1 0	1,67,874 12 9	10,053 5 0	1,75,687 1 2

CALCUTTA,
The 18th March 1890.

G. A. G. SHAWE,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	Remarks.
295	1. Grain ...	2,439	616	3,055	1,25,307	3,055	1,25,307	
...	2. Cotton ...	.....	.....	.....	...	... ..	.....	
2	3. Oilseeds ...	5	.....	5	460	5	460	
24	4. Salt ...	.....	196	196	22,300	196	22,300	
7	5. Piece-goods ...	.....	34	34	6,800	34	6,800	
.....	6. Metal ...	.....	... ..	.....	.....	.....	... ..	
15	7. Building materials	6	70	76	707	37	517	
845	8. Miscellaneous ...	287	480	767	73,087	737	71,367	
17	9. Fuel ...	21	131	152	1,374	116	1,124	
rafts 5	10. Timber ...	482 c. ft.	130 c ft.	612 c. ft	574	612 c. ft.	574	
„ 15	11. Bamboos ...	275 „	225 „	500 „	91	500 „	91	
1,205 20 rafts	12. Total ...	2,758 & 757 c. ft.	1,527 & 355 c. ft	4,285 & 1,112 c. ft.	2,30,700	4,180 & 1,112 c.ft.	2,28,540	
1,598 28 rafts	13. Total of same month last year	3,929 & 1,119 c. ft.	1,190 & 770 c. ft.	5,119 & 1,889 c. ft.	2,42,252	4,920 & 1,889 c.ft.	2,40,524	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	546	659	1,205
15. Total number of boats plying passenger No.	80	89	169
16. Total registered tonnage, cargo Tons	5,817	4,808	10,625
17. Total registered tonnage, passenger Tons	831	954	1,785
18. Ton-mileage ...	179,890	170,147	350,037
19. Estimated value of cargo Rs.	126,030	1,04,005	2,30,035
20. Number of passengers No.	2,009	2,987	4,996
21. Rafts, bamboos C. ft.	275	225	500
22. Do., bullahs „	482	130	612
23. Estimated value of rafts Rs.	490	175	665
24. Tollage on boats „	3,153-10-6	2,981-11-3	6,135-5-9
25. Compounded tollage on boats Rs.	.....	.....	... .
26. Tollage on rafts „	21-15-0	1-3-0	23-2-0
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-1-3

	Rs. A.
Total tollage of month—24+25+26 ...	6,158 7
Total tollage of same month last year ...	7,140 2

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	6,511 9
2. Tollage per month ...	6,158 7
3. Total ...	12,670 1
4. Amount paid into treasury during the month ...	7,988 4
5. Balance due at the end of the month ...	4,681 12

Abstract for the month of January 1890 *as compared with the corresponding month of the previous year.*

	1889-90. During the month.	1889-90. To end of the month.	1888-89. During the month.	1888-89. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	6,158 7 9	49,392 0 9	7,140 2 0	53,159 14 0

CALCUTTA,
The 18th March 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,922	1. Grain ...	38,071	74	38,145	37,14,607	38,145	37,14,607	
1	2. Cotton ...	14	.....	14	7,200	14	7,200	
10	3. Oilseeds ...	123	27	150	19,650	150	19,650	
837	4. Salt ...	483	6,154	6,637	6,50,387	6,637	6,50,387	
.....	5. Piece-goods ...	.....	.....	.....		.....		
15	6. Metal ...	31	29	60	29,850	60	29,850	
116	7. Building materials	1,604	138	1,742	20,696	1,742	20,696	
2,704	8. Miscellaneous*...	26,341	1,839	28,180	35,60,655	28,180	35,60,655	
509	9. Fuel ...	10,143	3,706	13,849	1,05,750	13,849	1,05,750	
... ..	10. Timber ...	.....	.....	.....	.....	.....	.....	
... ..	11. Bamboos ...	.....	.....	.....	.....	.....	... ..	
5,614	12. Total ...	76,810	11,967	88,777	81,08,795	88,777	81,08,795	
6,735	13. Total of same month last year.	92,503	9,177	101,680	91,60,970	101,680	91,60,970	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	5,012	602	5,614
14a. Do. empty boats „	2,853	1,495	4,348
15. Total number of boats plying passenger No.	396	6	402
16. Total registered tonnage, cargo Tons	215,722	36,978	2,52,700
17. Total registered tonnage, passenger Tons	837	15	852
18. Ton-mileage ...	18,95,060	3,69,780	22,64,840
19. Estimated value of cargo Rs.	72,21,304	8,87,491	81,08,795
20. Number of passengers No.	1,346	36	1,382
21. Rafts, bamboos C. ft.	... ..	.....	.....
22. Do., bullahs - „	.. ...	.....	.....
23. Estimated value of rafts Rs.	.....	... ..	.....
24. Tollage on boats „	46,428-5-9	9,063-11-0	55,492-0-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.			0-0-4·70
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	55,492	0	9
Total tollage of same month last year ...	62,571	4	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,128	7	9
2. Tollage per month ...	55,492	0	9
3. Total	56,620	8	6
4. Amount paid into treasury during the month ...	54,328	7	0
5. Balance due at the end of the month ...	2,292	1	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
949	(*a*) Jute ...	22,132	62	22,194	28,01,412	22,194	28,01,412	
91	(*b*) Jaggery ...	545	.....	545	53,375	545	53,375	
1	(*c*) Sugar ...	.....	14	14	3,200	14	3,200	
1	(*d*) Tobacco ...	16	.....	16	3,150	16	3,150	
911	(*e*) Fish ...	259	.....	259	72,539	259	72,539	
16	(*f*) Hides ...	23	.....	23	5,270	23	5,270	
43	(*g*) Poultry ...	9	.....	9	7,209	9	7,209	
123	(*h*) Hay and straw ...	648	.....	648	9,080	648	9,080	
81	(*j*) Oil ...	18	1,249	1,267	1,77,425	1,267	1,77,425	
37	(*k*) Earthenware ...	74	15	89	1,245	89	1,245	
451	(*m*) Other miscellaneous ...	2,617	499	3,116	4,26,750	3,116	4,26,750	
2,704	Total Miscellaneous...	26,341	1,839	28,180	35,60,655	28,180	35,60,655	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
6,584	1. Grain ...	15,894	2	15,896	14,21,599	15,896	14,21,599	
5	2. Cotton ...	25	.....	25	12,600	25	12,600	
9	3. Oilseeds ...	164	.....	164	20,425	164	20,425	
76	4. Salt ...	575	366	941	92,225	941	92,225	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	...	.....	.....	.....	
223	7. Building materials	2,286	.....	2,286	9,706	2,286	9,706	
1,184	8. Miscellaneous* ...	3,811	123	3,934	3,94,880	3,934	3,94,880	
146	9. Fuel ...	2,210	52	2,262	17,638	2,262	17,638	
1 raft.	10. Timber ...	3,191 c. ft.	.....	3,191 c. ft.	7,977	3,191 c. ft.	7,977	
2 rafts.	11. Bamboos ...	64 „	.....	64 „	11	64 „	11	
8,227 & 3 rafts.	12. Total ...	24,965 & 3,255 c. ft	543	25,508 & 3,255 c. ft.	19,77,061	25,508 & 3,255 c. ft.	19,77,061	
8,025 & 3 rafts.	13. Total of same month last year ...	29,798 & 461 c. ft.	676	30,474 & 461 c. ft.	21,25,081	30,474 & 461 c. ft.	21,25,081	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	8,146	81	8,227
14*a*. Do. empty boats „	1,406	255	1,661
15. Total number of boats plying passenger ... No.	592	24	616
16. Total registered tonnage, cargo ... Tons	74,438	2,878	77,316
17. Total registered tonnage, passenger ... Tons	1,574	135	1,709
18. Ton-mileage	7,38,021	46,048	7,84,069
19. Estimated value of cargo Rs.	19,18,181	50,892	19,69,073
20. Number of passengers No.	4,503	331	4,834
21. Rafts, bamboos C. ft.	64	.....	64
22. Do., bullahs „	3,191	.....	3,191
23. Estimated value of rafts Rs.	7,988	.....	7,988
24. Tollage on boats „	13,440-6-6	738-6-6	14,178-13-0
25. Compounded tollage on boats ... Rs.	.....	.....	.....
26. Tollage on rafts „	22-0-0	.....	22-0-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·47
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-10-9

	Rs. A. P.
Total tollage of month—24+25+26 ...	14,200 13 0
Total tollage of same month last year ...	16,389 4 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	392 13 6
2. Tollage per month ...	14,200 13 0
3. Total	14,593 10 6
4. Amount paid into treasury during the month ...	14,263 1 6
5. Balance due at the end of the month ...	330 9 0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
14	(*a*) Jute ...	88	12	100	12,600	100	12,600	
112	(*b*) Jaggery ...	670	3	673	65,975	673	65,975	
...	(*c*) Sugar ...	.....	.....	.....	.....	.....	.....	
7	(*d*) Tobacco ...	69	9	78	15,400	78	15,400	
257	(*e*) Fish ...	33	4	37	10,395	37	10,395	
.....	(*f*) Hides ...	.....	.....	.....	.....	.....	.....	
2	(*g*) Poultry ...	1	.....	1	128	1	128	
.....	(*h*) Hay and straw...	.....	.....	.....	.....	.....	.....	
52	(*j*) Oil ...	510	12	522	73,125	522	73,125	
117	(*k*) Earthenware ...	104	19	123	1,718	123	1,718	
623	(*m*) Other miscellaneous.	2,336	64	2,400	2,15,539	2,400	2,15,539	
1,184	Total Miscellaneous...	3,811	123	3,934	3,94,880	3,934	3,94,880	

ABSTRACT FOR THE MONTH OF JANUARY 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1889-90.				Traffic, 1888-89.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	
Calcutta and Eastern Canals ...	55,492 0 9		2,90,826 2 3		62,511 4 9		3,43,225 8 3	
Tolly's Nullah	14,200 13 0		81,574 1 9		16,389 4 6		1,09,229 8 0	
Total ...	69,692 13 9		3,72,400 4 0		78,960 9 3		4,52,455 0 3	

Calcutta,
The 18th March 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 15th March 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 15th March 1890.			Week ending Saturday, the 16th March 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,079	1,96,025	3,139	695	1,08,615	3,421
Jute	88	64,425	1,155	53	37,350	649
Firewood	100	69,600	966	171	97,010	1,459
Other articles	902	2,70,195	3,954	1,006	2,43,960	3,978
Total ...	2,173	5,05,145	9,214	1,925	5,71,935	9,507

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the three weeks and four days ended 25th January 1890, *as compared with the same period of* 1889.

Staples.	1890.		1889		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs	Mds.	Rs.
ANIMALS, LIVING — Horses, ponies, and mules	No. 303	7,389	No. 213	6,311	No. 90	1,047	No.....	... ..
ANIMALS, LIVING — Cattle	,, 280	681	,, 94	612	,, 186	69	,, ...	.....
ANIMALS, LIVING — Sheep and goats	,, 3,82[illegible]	3,071	,, 2,460	2,184	,, 862	937	,, ...	... ..
ANIMALS, LIVING — Other kinds	,, ...	.....	,, 3	683	,, ...	.....	,, 3	683
BORAX	6,815	5,158	4,086	3,075	2,729	2,083	.....	.....
Canes and rattans	65	120	67	124	.....	.....	2	4
Caoutchouc (Indian-rubber)	.....	.....	.....	.. ..	.....	... ..	.....	.....
Chinese and Japanese ware	54	81	39	32	.....	.....	5	1
Coal and coke, up	8,26 659	2,54,008	7,16,009	2,41,428	1,10,590	.....	.....	2,420
Ditto, down	21,29,436	3,01,048	27,65,806	3,78,898	..	.	4,36,370	77,850
Cotton, raw	2,57,608	1,71,463	2,05,295	1,56,196	52,313	15,267	.....	.....
COTTON, MANUFACTURED — Twist and yarn (European)	6,807	8,851	7,257	9,194	.....	...	450	343
COTTON, MANUFACTURED — Ditto (Indian)	10,529	5,658	12,815	8,641	.....	.....	2,293	2,983
COTTON, MANUFACTURED — Piece-goods (European)	79,787	79,723	1,07,982	1,22,878	.....	... ..	28,195	42,855
COTTON, MANUFACTURED — Ditto (Indian)	22,043	13,497	22,781	14,769	.....	.....	738	1,272
DRUGS AND MEDICINES — Asafœtida	118	95	423	252	...	... .	305	157
DRUGS AND MEDICINES — Other sorts, not intoxicating	1,791	1,580	2,249	1,916	.....	... ..	458	336
DRUGS AND MEDICINES — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c)	1,135	734	1,812	1,382	.....	.....	687	658
DYEING MATERIALS — Indigo	3,643	5,204	6,489	8,897	.....	.....	2,816	3,193
DYEING MATERIALS — Madder or manjit	146	13	75	18	70	15	.....	.....
DYEING MATERIALS — Safflower	231	204	177	187	54	17	.. ...	.....
DYEING MATERIALS — Turmeric	7,873	4,239	6,820	3,518	1,053	721	.....	.....
DYEING MATERIALS — Other kinds	10,358	3,951	16,035	6,724	.....	.....	5,677	2,783
Earthenware and porcelain	554	796	460	615	104	181	.....	.....
FIBROUS PRODUCTS — Jute, raw	60,008	11,939	59,447	7,462	561	4,477	.....	... ..
FIBROUS PRODUCTS — Do., manufactured (gunny-bags and cloths).	58,267	28,939	59,717	29,814	.....	.....	1,450	875
FIBROUS PRODUCTS — Other fibres, raw	22,035	6,251	31,456	10,437	.....	.....	8,521	4,186
FIBROUS PRODUCTS — Ditto, manufactured	3,507	1,560	1,108	400	2,399	1,160	.....	.....
FRUITS & NUTS — Cocoanuts	4,963	2,498	5,323	3,213	.....	.... .	370	265
FRUITS & NUTS — All other kinds	37,223	18,970	37,241	24,636	.....	.....	19	5,666
GRAIN & PULSES — Wheat	1,21,908	35,768	1,63,138	33,818	.....	.....	41,230	... .
GRAIN & PULSES — Gram and pulses	2,49,467	60,547	2,32,467	51,207	17,000	9,340	.....	.....
GRAIN & PULSES — Rice, husked	6,69,674	1,06,778	10,14,294	2,27,988	.....	.....	3,44,620	1,19,210
GRAIN & PULSES — Do., unhusked	8,663	2,716	33,653	4,526	.....	.....	23,990	1,810
GRAIN & PULSES — Other rain and spring crops	1,14 426	22,271	1,32,186	21,121	.....	1,150	17,760	.....
Government stores	22,175	34,669	19,789	29,612	2,386	12,057	.....	.....
Gums and resins	3,901	2 383	3,580	1,977	321	376	.....	.....
HIDES & SKINS — Hides of cattle	53,673	30,067	71,293	50,339	.....	.....	17,620	20,272
HIDES & SKINS — Skins of sheep, goats, and small animals.	11,044	4,644	17,066	7,715	.....	....	6,022	3,071
Horns	1,732	1,341	1,221	587	511	754	.....	.....
LAC — Lac, dye	288	154	310	155	.....	.....	22	1
LAC — Do., shell	14,343	11,334	15,857	12,637	.....	.....	1,514	1,293
LAC — Do., stick and other kinds	23,980	6,564	41,308	13,255	.....	.....	17,328	6,691
LEATHER — Leather, unmanufactured	2,041	3,988	2,396	4,480	.....	.....	355	492
LEATHER — Ditto, manufactured	2,072	3,483	2,572	4,115	.....	.....	500	632
Liquors	13,010	12,838	14,366	12,494	.....	414	756	.....
Mats	453	197	506	195	...	2	53	.....
Minerals	1,71,836	21,615	1,12,153	18,338	59,673	3,277	.....	.....
METALS AND MANUFACTURES OF. — Brass and copper	26,972	17,831	17,461	10,508	9,511	7,310	.....	.....
METALS AND MANUFACTURES OF. — Iron	90,576	52,861	86,189	55,257	4,394	.....	.....	2,396
METALS AND MANUFACTURES OF. — Other metals	3,423	3,214	3,031	2,579	392	635	.....	.....
Oils	81,922	44,452	54,315	25,626	27,710	18,830	.....	.....
Opium	38,505	40,018	48,818	49,152	....	.....	10,313	9,134
Paints and colours	20,033	2,082	2,805	2,006	17,728	31	.....	.....
PROVISIONS — Ghee	30,847	20,426	30,540	16,704	317	3,723	.....	.....
PROVISIONS — Other kinds	5,937	6,049	6,157	5,404	... ..	645	.....	.....
Railway materials, Construction Account	1,20,785	3,113	84,718	1,890	35,567	1,223	.....	.....
Ditto ditto, Foreign	1,14,096	41,861	84,790	33,563	28,306	8,298	.....	.....
Salt	4,71,764	91,862	4,72,477	89,070	.....	2,792	713	.....
SALTPETRE, &c. — Saltpetre	62,093	29,516	66,016	27,854	.....	1,662	3,923	.....
SALTPETRE, &c. — Other saline substances	9,515	2,117	6,989	1,920	2,526	197	.....	.....
SEEDS (Oil-seeds) — Linseed	65,753	19,731	1,63,673	52,713	... ..	.....	97,920	32,980
SEEDS (Oil-seeds) — Mustard and rape	95,604	23,452	89,014	19,682	6,590	3,770	.....	.....
SEEDS (Oil-seeds) — Til or ginjelly	60,784	15,935	27,544	3,825	33,240	12,110	... ..	.....
SEEDS (Oil-seeds) — Other oilseeds	23,970	5,498	34,710	9,158	.....	.....	10,940	3,660
SEEDS (Other seeds) — Indigo seed	1,28,703	48,041	1,21,173	37,401	17,530	10,640	.....	.....
SEEDS (Other seeds) — Tea seed	... ..	.....	... ..	.....	.....	.....	.....	.....
SEEDS (Other seeds) — Other kinds	50,434	15,344	38,744	11,056	11,690	4,490	.....	.....
SILK — Silk, raw	3,463	2,233	1,957	1,361	1,506	872	.....	.....
SILK — Do., manufactured (European)	8	92	26	97	.... .	.....	18	25
SILK — Do., ditto (Indian)	800	391	805	388	55	6	.....	.....
Spices	26,615	18,243	8,831	5,151	17,794	13,092	.....	.....
Stone and marble	1,30,576	13,640	1,34,635	19,501	... ..	... ..	3,759	5,862
SUGAR — Sugar, refined	1,22,414	9,832	1,59,017	21,984	... ..	.....	36,603	12,152
SUGAR — Do., unrefined	4,01,275	67,480	3,63,651	53,123	37,624	14,357	.....	.....
TEA — Tea, Indian	1,688	1,817	1,889	2,407	.....	.....	201	590
TEA — Do., Foreign	.....	.....	7	6	.....	.....	7	6
Tobacco	90,605	9,650	18,158	6,833	2,447	826	.....	.....
WOOD — Timber	34,039	7,154	29,904	5,397	4,758	1,757	.....	.....
WOOD — Firewood	42,552	2,962	24,089	1,639	18,463	1,323	.....	.....
WOOL — Wool, raw	1,619	1,412	680	482	939	930	.....	.....
WOOL — Do., manufactured (European).	284	457	260	422	24	15	.....	.....
WOOL — Wool, manufactured (Indian)	1,376	1,501	1,363	1,481	13	110	.....	.....
WOOL — Shawls	.....	.....	... ..	..	. ..	.....	.....	.....
All other articles of merchandise	2,11,271	1,24,254	2,19,038	1,29,597	.....	.....	7,767	5,343
Bones	40,824	11,161	23,747	6,156	17,077	5,005	.....	.....
Potatoes	36,790	9,449	39,048	8,336	.....	1,113	2,258	.....
Total	78,31,039	20,45,757	84,14,295	22,54,360	5,52,232	1,70,137	11,34,875	3,78,740

General remarks on the fluctuations of principal staples carried over the East Indian Railway during month ended 25th January 1890.

INCREASES.

Cotton.—The increase occurred chiefly in despatches from stations on the "C" and "D" districts to Howrah and Bombay for export.

Gram and Pulses.—This was chiefly in dâll from Cawnpore to Howrah for local consumption; also in gram from Manhar and Phaphund to Agra and Benares.

Government Stores.—Chiefly in Commissariat stores from Calcutta to Rawalpindi and Quetta.

Brass and Copper.—This increase was in the unmanufactured articles from Howrah to Mirzapur and Hathras, and in utensils from Mirzapur.

Oil.—Chiefly in kerosine-oil from Howrah to Patna and other stations.

Railway Material, Foreign.—This was in rails, sleepers, and other permanent-way material despatched from Howrah to Damooda and Umballa Cantonment for the Bengal-Nagpur and Delhi-Umballa-Kalka Railways.

Spices.—The increase under this head was in chillies despatched from Mokameh and *vid* Mokameh Ghât to Howrah and Burdwan, where the article was in good demand.

Sugar (refined and unrefined).—There was a decrease in refined sugar and an increase in the unrefined article or jaggree, causing a net increase, and this was due to considerable despatches from stations on the Dinapore district to Howrah due to the high price ruling in Calcutta for common sugar.

DECREASES.

Coal.—The decrease occurred in downward coal to Howrah for export. The traffic was exceptionally brisk in the correspond. ing period of last year.

Piece-goods, European.—Chiefly in despatches from Howrah, there having been a falling off in the up-country demand; consignments from Bombay to Cawnpore *vid* Jubbulpore also fell off owing to diversion of the traffic to the Indian Midland Railway route.

Rice (husked and unhusked).—The decrease in this staple occurred almost entirely in despatches from stations on the "A" and "B" districts to up-country stations, owing to there having been a demand for rice during the corresponding period of last year.

Hides.—The falling off under this head was chiefly in despatches to Howrah, due to short supplies.

Opium.—This traffic is regulated by the Opium Department, and the decrease was entirely in consignments to Howrah.

Seeds.—The decrease was chiefly in linseed, due to stocks being quite exhausted.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, 11*th March* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, *on* 1,525½ *miles open*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	258,119*	3,04,463 11 0*	26,66,162 10	6,06,305 14 0	19,183 9 0	9,28,953 2 0	66,086½	106,397½	172,484½
Or per mile of railway ..	.....	199 9 4	.....	396 13 8	12 9 2	606 15 2	.....	.....	.....
For previous 9 weeks of half-year	2,301,635	26,13,833 14 0	2,24,93,388 20	52,40,907 13 0	1,77,196 9 0	80,31,940 4 0	580,960	788,780	1,369,740
Total for 10 weeks ...	2,559,954	29,18,297 9 0	2,51,59,550 30	58,46,213 11 0	1,96,382 2 0	89,60,893 6 0	647,025½	895,177½	1,542,203½
COMPARISON.									
Total for corresponding week of previous year	300,044	3,40,853 8 2	27,61,018 0	6,06,082 16 3	16,593 4 7	9,63,228 11 0	67,322	96,211	164,063
Per mile of railway corresponding week of previous year ..	.....	223 3 10	.....	397 4 10	10 14 0	631 6 2	.....	.....	.....
Total to corresponding date of previous year	2,583,496½	30,29,229 10 3	2,76,10,136 0	60,24,266 2 3	1,96,396 8 9	92,60,394 5 2	650,754	969,737	1,620,491

* The decrease in coaching traffic is chiefly in 3rd class, and is apparently due to figures for the corresponding period of 1889 having included a portion of the "Sibaratri" mela traffic.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

Receipts for week ending 9th March 1889.			Receipts for week ending 8th March 1890.			Total receipts from 1st April 1888 to 9th March 1889.			Total receipts from 1st April 1889 to 8th March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,63,229	631	1,525½	9,28,953	609	1,525½	4,17,46,120	555	1,525½	4,14,77,376	555	.....	2,68,74

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 8th March 1890, *on* 57½ *miles open*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,615	6,147 0 0	50,342 20	3,095 8 0	34 7 0	9,276 15 0	1,793	602	2,394
Or per mile of railway ...	207	107 7 5	880 10	54 1 10	0 9 8	163 2 11	.....	.....	...
For previous 9 weeks of half-year	*107,736	*57,976 6 0	†3,26,901 0	†21,411 8 0	‡401 4 0	79,789 2 0	15,405	5,953	21,357
Total for 10 weeks ...	119,601	64,133 6 0	3,71,243 20	24,507 0 0	435 11 0	89,066 1 0	17,197	6,554	23,751
Comparison.									
Total for corresponding week of previous year	16,487	9,791 11 7	21,701 20	1,573 14 0	77 0 6	11,442 10 1	2,128	396	2,524
Per mile of railway corresponding week of previous year ...	286	171 2 11	379 20	27 8 8	1 5 7	200 0 9	.....	.....	.....
Total to corresponding date of previous year	182,284	73,805 13 8	3,08,817 0	17,896 0 0	411 13 3	90,223 13 6	18,918	5,158	24,074

* Deducted number of passengers 1,837 and Rs. 1,165
† Added maunds 5,432 and „ 307 } on account of differences between the approximate and audited returns to week ended 25th January 1890.
‡ Deducted „ 25

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th March 1889.			Receipts for week ending 8th March 1890.			Total receipts from 1st April 1888 to 9th March 1889			Total receipts from 1st April 1889 to 8th March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	11,453	203	57½	9,277	162	57½	4,58,963	164	57½	*4,71,138	161	12,175	.....

* Deducted Rs. 863 on account of difference between the approximate and audited figures to week ended 25th January 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,436	5,751 4 0	19,583 20	633 3 0	12 12 0	6,397 3 0	871	97	968
Or per mile of railway ...	.....	258 7 9	.....	28 7 4	0 9 2	287 3 3	.....	.....	.....
For previous 9 weeks of half-year	*183,043	*45,415 11 0	†1,21,432 20	†6,174 14 0	‡54 1 0	40,654 10 0	7,871	787	8,658
Total for 10 weeks ...	204,479	51,166 15 0	1,41,016 20	6,808 1 0	76 13 0	56,051 13 0	8,742	884	9,626
Comparison.									
Total for corresponding week of previous year	25,041	6,831 4 0	8,989 36	311 9 0	6 9 6	6,349 6 6	906	62	968
Per mile of railway corresponding week of previous year	.....	298 8 8	.....	14 0 0	0 4 9	307 13 5	.....	.....	.....
Total to corresponding date of previous year	281,449	67,631 4 9	94,663 10	3,514 5 0	64 13 3	66,910 7 0	9,013	645	9,658

* Added number of passengers 387 and Rs. 63
† Ditto maunds 1,500 and „ 13 } on account of differences between the approximate and audited returns to week ended 25th January 1890.
‡ Ditto „ 2

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th March 1889.			Receipts for week ending 8th March 1890.			Total receipts from 1st April 1888 to 9th March 1889.			Total receipts from 1st April 1889 to 8th March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
	6,844	305	22½	6,397	288	22½	2,67,792	246	22½	*2,89,725	223	.....	5,667

* Added [illegible]28 on account of difference between the approximate and audited figures to week ended 25th January 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 1st March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total
		Rs. A. P.	MDS. S	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	146,290	81,520 0 0	6,14,030 0	1,02,340 0 0	34,550 0 0	2,08,340 0 0	23,173	26,942	50,115
Or per mile of railway	196	109 0 0	822 0	137 0 0	*11 0 0	257 0 0	.....	.. ..	.....
For previous 8 weeks of half-year	1,201,810	6,14,310 0 0	47,15,870 0	9,69,260 0 0	1,32,230 0 0	17,15,800 0 0	174,584	248,515	423,099
Total for 9 weeks ..	1,348,100	6,95,830 0 0	53,29,900 0	10,71,600 0 0	1,56,810 0 0	19,24,140 0 0	197,757	275,457	473,214
COMPARISON									
Total for corresponding week of previous year	149,377	87,544 0 0	5,71,042 0	93,729 0 0	31,300 0 0	2,01,573 0 0	22,352	23,188	45,540
Per mile of railway corresponding period of previous year ..	222	130 0 0	848 0	123 0 0	*18 0 0	266 0 0	... ..	.....	.....
Total to corresponding date of previous year	1,201,207	7,13,851 0 0	44,30,962 0	8,39,211 0 0	1,59,871 0 0	17,03,933 0 0	192,972	228,743	421,714

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 1ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 2ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 1ST MARCH 1890.			Total increase in 1889-90	Total decrease in 1889-90
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts	Per mile worked per week.		
	Rs.	Rs		Rs	Rs		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	2,01,573	300	747	2,08,340	279	673	99,45,323	295	727	*1,06,89,230	307	7,43,906	.....

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs A. P.	Rs. A. P.	Rs. A P.			
Total traffic for the week ...	26,570	10,420 0 0	58,910 0	3,020 0 0	80 0 0	13,520 0 0	3,735	2,15	5,890
Or per mile of railway	213	83 0 0	471 0	24 0 0	1 0 0	108 0 0	... ..	.....	.....
For previous 8 weeks of half-year	213,150	80,480 0 8	2,73,940 0	22,130 0 0	600 0 0	1,03,180 0 8	28,286	14,674	42,960
Total for 9 weeks, ...	239,720	90,870 0 0	3,32,850 0	25,150 0 0	680 0 0	1,16,700 0 0	32,022	16,828	48,850
COMPARISON.									
Total for corresponding week of previous year	26,923	10,678 0 0	67,433 0	3,346 0 0	154 0 0	14,228 0 0	3,735	1,997	5,672
Per mile of railway corresponding period of previous year .	215	86 0 0	539 0	27 0 0	1 0 0	114 0 0	... ..	.....	.....
Total to corresponding date of previous year	242,003	87,891 0 0	5,67,240 0	22,196 0 0	4,043 0 0	1,14,537 0 0	32,685	16,886	49,511

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 1ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 2ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 1ST MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,008	114	125	13,520	108	125	6,60,685	110	125	*6,76,151	113	15,469	.....

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,310	7,040 0 0	26,450 0	2,370 0 0	270 0 0	9,680 0 0	2,460	624	3,104
Or per mile of railway ...	213	82 0 0	308 0	28 0 0	3 0 0	113 0 0	.....	... ...	
For previous 8 weeks of half-year	126,490	48,640 0 0	2,73,280 0	23,360 0 0	1,880 0 0	73,880 0 0	18,778	6,408	25,186
Total for 9 weeks ...	144,800	55,680 0 0	2,99,700 0	25,730 0 0	1,850 0 0	83,360 0 0	21,238	7,032	28,290
COMPARISON.									
Total for corresponding period of previous year ...	18,810	5,870 0 0	14,301 0	1,034 0 0	84 0 0	6,688 0 0	2,489	615	3 104
Per mile of railway corresponding period of previous year ...	219	68 0 0	166 0	12 0 0	1 0 0	78 0 0	... ...	... ...	.....
Total to corresponding date of previous year	137,871	42,490 0 0	1,07,270 0	10,640 0 0	1,446 0 0	54,576 0 0	21,670	5,806	27,476

FINANCIAL YEAR

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 2nd March 1889.			Receipts for week ending 1st March 1890.			Total receipts from 1st April 1888 to 2nd March 1889.			Total receipts from 1st April 1889 to 1st March 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked	Mean mileage worked	Total receipts	Per mile worked per week	Mean mileage worked	Total receipts	Per mile worked per week		
	Rs.	Rs.		Rs	Rs.		Rs.	Rs		Rs.	Rs.	Rs.	Rs.
86	6,033	70	86	9,680	113	86	2,78,050	67	86	*3,68,518	80	90,468	... ...

* Audited up to week ending 31st December 1889.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th March 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S	Rs. A. P.	Rs. A. P.	Rs. A. P			
Total traffic for the week ...	41 248	16,429 0 0	2,59,101 0	23,618 0 0	3,323 0 0	46,561 0 0	6,028	8,236	14,264
Or per mile of railway ...	151	60 0 0	949 0	196 0 0	3 0 0	169 0 0*	.....	.....	.....
For previous 8 weeks of half-year	425,402	1,84 704 0 0	23,24,305 0	2,67,344 0 0	31,260 0 0	4,83,508 0 0	49 557	83,121	132,678
Total for 9 weeks ...	466,650	2,00,724 0 0	25 83,460 0	2,96,162 0 0	35,183 0 0	5,12,069 0 0	55,580	91,357	147,147
COMPARISON.									
Total for corresponding week of previous year	45,067	17,146 0 0	1,38,802 0	13,402 0 0	2,819 0 0	32,367 0 0	5,659	5,237	11,96
Per mile of railway corresponding week of previous year ...	168	63 0 0	509 0	49 0 0	1 0 0	109 0 0*	.....	.....	.....
Total to corresponding date of previous year	401,235	1,55,996 0 0	13,51,696 0	1,25,664 0 0	29,971 0 0	3,10,930 0 0	54,929	56,930	111,859

* Steam boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 9th March 1889.			Receipts for week ending 8th March 1890			Total receipts from 1st April 1888 to 8th March 1889.			Total receipts from 1st April 1889 to 8th March 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs	Rs.	Rs.
273	32,367	119	273	46,561	176	265 53	15,60,433	125	273	20,10,005	137	4,55,572	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 22nd February 1890	9,597
Corresponding period of 1889	9,021
Increase	576

	Rs.	A.	P.
Receipts per mile for week ending 22nd February 1890	188	2	10
Corresponding period of 1889	176	14	4
Increase	11	4	6

Receipts from 1st January to 22nd February 1890	59,911
Corresponding period of 1889	56,787
Increase	3,124

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The Calcutta Gazette.

WEDNESDAY, MARCH 26, 1890.

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PART I.

Orders and Notifications by the Lieutenant-Governor of Bengal, the High Court, Government Treasury, &c.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

No. 175A.

GENERAL.—*The 18th March* 1890.—Mr. A. A. Wace, Magistrate and Collector reported his departure from India, on furlough, on the 7th March 1890.

The 19th March 1890.—Mr. C. B. Garrett, District and Sessions Judge, 24-Pergunnahs, is placed temporarily in charge of the Hooghly Sessions Division, in addition to his own duties.

The 20th March 1890.—Mr. R. H. Anderson, Officiating District and Sessions Judge, Moorshedabad, is appointed to act temporarily as District and Sessions Judge of Hooghly.

Mr. A. H. Collins, Joint-Magistrate and Deputy Collector, Dinagepore, is appointed to act temporarily as District and Sessions Judge of Jessore.

The 21st March 1890.—Mr. C. J. S Faulder, Joint-Magistrate and Deputy Collector, Patna, is appointed to act temporarily as Magistrate and Collector of Durbhunga.

Mr. C. E. Buckland, Junior Secretary to the Board of Revenue, is appointed to act as Secretary to the Board of Revenue, with effect from the 11th instant, during the absence, on deputation, of Mr. H. J. S. Cotton, or until further orders.

Babu Manick Lal Pal, Deputy Magistrate and Deputy Collector, on excise work, Purneah, is allowed leave for one week, under article 291 of the Civil Service Regulations, with effect from the date on which he may avail himself of it.

The 22nd March 1890.—Babu Dina Nath Chuckerbutty, Sub-Deputy Collector, in charge of the Ova distillery, is allowed furlough for one year, under article 371 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Babu Khudiram Poddar, Sub-Deputy Collector, Moorshedabad, is transferred to the district of Rungpore.

Babu Bis eswar Das, Sub-Deputy Collector, is posted to the district of Julpaiguri.

Babu Kali Prosad Chatterjee, Sub-Deputy Collector, on excise duty, Bankoora, is transferred to the district of Backergunge.

Mr. G. A. Grierson, C.S., reported his departure from India, on furlough, on the afternoon of the 10th instant.

The 24th March 1890.—Mr. W. H. Thomson, Deputy Magistrate and Deputy Collector, Giridih, Hazaribagh, is allowed leave for one month, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

Moulvie Mahomed Azhúr, Officiating Deputy Magistrate and Deputy Collector, Hazaribagh, is appointed temporarily to have charge of the Giridih sub-division of that district.

Babu Gunga Churn Chatterjee, Deputy Magistrate and Deputy Collector, Chittagong, is transferred to the Sudder station of the district of Noakhali.

Babu Mohini Mohun Chuckerbutty, Deputy Magistrate and Deputy Collector, Noakhali, is transferred to the Sudder station of the district of Chittagong.

Captain James Stevenson, Presidency Volunteer Reserve Battalion, is allowed leave of absence for one year with effect from the 14th instant.

Babu Modan Gopal Singh, Sub-Deputy Collector, Godda, Sonthal Pergunnahs, is allowed leave for three weeks, under article 291 of the Civil Service Regulations, with effect from the 1st May 1890.

The 25th March 1890.—Mr. W. Maude, Officiating Joint-Magistrate and Deputy Collector, Chota Nagpore Division, is appointed to act as Under-Secretary to the Government of Bengal, in the General, Revenue and Statistical Departments, during the absence, on deputation, of Mr. H. W. C. Carnduff, or until further orders.

Lieutenant C. E. Greenway, extra *Aide-de-Camp* on the Personal Staff of the Lieutenant-Governor of Bengal, is appointed to act as *Aide-de-Camp* on the Personal Staff of the Lieutenant-Governor of Bengal, during the absence, on leave, of Captain J. W. Currie, or until further orders.

POLICE.—*The 18th March* 1890.—Mr. R. N. W. Pritchard, Assistant Superintendent of Police, reported his departure from India, on leave, on the 6th March 1890.

The 22nd March 1890.—Mr. F. A. Fullerton, Assistant Superintendent of Police, is posted to Jessore.

The 24th March 1890.—Mr. H. V. H. Roberts, District Superintendent of Police, Puri, is allowed leave for two months, under article 291 of the Civil Service Regulations, with effect from the date on which he may be relieved.

ECCLESIASTICAL.—*The 24th March* 1890.—The Revd. Denham Robinson, Baptist Missionary, Howrah, is appointed, under section 7 of Act XV of 1872, to be a Marriage Registrar in that district.

The Revd. Denham Robinson is hereby licensed, under section 9 of Act XV of 1872, to grant certificates of marriage between persons who are Native Christians.

The Revd. Denham Robinson is also appointed to be a Registrar of Births and Deaths under Act VI of 1886.

EDUCATION.—*The 21st March* 1890.—Mr. E. M. Wheeler, M. A, is appointed to be an Assistant Professor in the Hooghly College.

The 22nd March 1890.—Mr. F. O. Oertel is appointed to act in class IV of the Bengal Educational Service, and as Professor in the Civil Engineering College, Seebpore, Howrah, during the absence, on furlough, of Mr. J. S. Slater, or until further orders.

The 25th March 1890.—Babu Modhú Sudan Das, Law Lecturer, Ravenshaw College, Cuttack, is allowed leave for one month, without allowances, in extension of the leave granted to him under the order of the 4th ultimo.

Mr. A. Pedler, Professor, Presidency College, and Meteorological Reporter to Government, is allowed furlough for seven months and six days, under article 340 of the Civil Service Regulations, with effect from the 12th proximo.

Mr. C. Little, Professor, Presidency College, is appointed to act, in addition to his own duties, as Meteorological Reporter to Government, during the absence, on furlough, of Mr A. Pedler, or until further orders.

MEDICAL.—*The 20th March* 1890.—Surgeon-Major E G. Russell, Civil Surgeon of Patna, is also appointed to be Superintendent of the Temple Medical School, Patna.

The 21st March 1890.—Apothecary W. Mullins, Medical Officer at the Sandheads, is allowed leave for one month, under article 276A of the Civil Service Regulations, with effect from the date on which he availed himself of it.

Assistant Apothecary A. Allison, Presidency General Hospital, is appointed to act as Medical Officer at the Sandheads during the absence, on leave, of Apothecary W. Mullins, or until further orders.

The services of Senior Apothecary T. Price, Presidency General Hospital, are replaced at the disposal of the Government of India in the Foreign Department.

The 22nd March 1890.—The services of Brigade-Surgeon R. Harvey, Professor of Midwifery, Medical College, and Obstetric Physician, Eden Hospital, Calcutta, are placed at the disposal of the Government of India, Military Department.

The 25th March 1890.—Brigade-Surgeon J. G. Pilcher acted as Civil Surgeon of Howrah from the afternoon of the 14th February to the afternoon of the 5th March 1890.

The following notifications are republished from the *Assam Gazette*:—

No. 1698*G.*—*The* 10*th March* 1890.—Furlough for one year, under article 340 of the Civil Service Regulations, is granted to Mr. A. F. Steinberg, C.S., Assistant Commissioner, with effect from the 1st April 1890, or the subsequent date on which he may avail himself of it.

No. 1776*G.*—*The* 12*th March* 1890.—Mr. W. B. Brown, C.S., Assistant Commissioner, having passed in Assamese as a third compulsory language by the higher standard on the 11th November 1889, within one year of his arrival in Assam, is presented with the authorized donation of Rs. 500.

No. 1777*G.*—Mr. H. E. Ransom, C.S., Assistant Commissioner, having passed in Assamese as a third compulsory language by the higher standard on the 11th November 1889, within one year of his arrival in Assam, is presented with the authorized donation of Rs. 500.

No. 1784*G.*—*The* 13*th March* 1890.—With effect from the 24th February 1890, consequent on the departure on furlough of Mr. H. C. Williams, C.S., Deputy Commissioner, first grade—

* * * * *

Mr. F. St. Clair Grimwood, C.S., Deputy Commissioner, fourth grade, to officiate as Deputy Commissioner, third grade.

Mr. W. Teunon, C.S., Assistant Commissioner, second grade, to officiate as Assistant Commissioner, first grade.

Mr. W. H. Cossins, C.S., Assistant Commissioner, third grade, to officiate as Assistant Commissioner, second grade.

No. 1785*G.*—Consequent on the return from furlough of Mr. H Luttman-Johnson, C.S., Judge and Commissioner, Assam Valley Districts, and with effect from the 3rd March 1890—

* * * * *

Mr. F. St. Clair Grimwood, C.S., Officiating Deputy Commissioner, third grade, to revert to Deputy Commissioner, fourth grade.

Mr. W. Teunon, C.S., Officiating Assistant Commissioner, first grade, to revert to Assistant Commissioner, second grade.

Mr. W. H. Cossins, C.S., Officiating Assistant Commissioner, second grade, to revert to Assistant Commissioner, third grade.

No 1786*G.*—Consequent on the assumption by Mr. A. C. Campbell of the duties of his appointment as Deputy Commissioner of Kamrup, and with effect from the 4th of March 1890, Mr. R. S. Greenshields, C.S., Assistant Commissioner, first grade, Officiating Deputy Commissioner, fourth grade, reverted to his substantive appointment of Assistant Commissioner, first grade.

No 17.—*The* 13*th March* 1890.—Mr. H. Luttman-Johnson, C.S., Judge and Commissioner, Assam Valley Districts, reported his return to duty from furlough in the forenoon of the 3rd March 1890.

No. 19.—Mr. H. C. Williams, C.S., reported his departure from India on furlough on the 6th March 1890.

No. 20.—Rai Jadab Chandra Baruah Bahadur, Tehsildar, made over the executive charge of the Naga Hills treasury to Mr. E. Muspratt, Assistant Superintendent of Police, on the 8th March 1890.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT—(OPIUM).

NOTIFICATION.

The 25*th March*, 1890.—Mr. J. C. Sarkies, Assistant Sub-Deputy Opium Agent, Benares Agency, is appointed to act as Sub-Deputy Opium Agent of Basti, during the absence, on furlough, of Mr. P J. Luard, or until further orders.

Mr. J. E. Hand, Sub-Deputy Opium Agent, Ghazipore, is allowed privilege leave for three months, with effect from the 1st April 1890, or any subsequent date from which he may avail himself of it.

Mr. G. M. Gregory, Assistant Sub-Deputy Opium Agent, is appointed to act as Sub-Deputy Opium Agent, Ghazipore, during the absence, on privilege leave, of Mr. J. E. Hand, or until further orders.

Mr. P. J. Luard, Sub-Deputy Opium Agent of Basti, is allowed privilege leave for 4 days in extension of the two and a half months' privilege leave granted to him under orders of the 22nd June 1889.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 25th March, 1890.—In consequence of the retirement of Mr. C. E. Mendham, Sub-Deputy Opium Agent, 2nd grade, the following promotions are made with effect from the 20th January, 1890:—

Mr. H. J. F. Pratt, Sub-Deputy Opium Agent, 3rd grade, to be a Sub-Deputy Opium Agent of the 2nd grade.

Mr. A. F. Mackenzie, Sub-Deputy Opium Agent, 4th grade, to be a Sub-Deputy Opium Agent of the 3rd grade.

Mr. A. Elliot, Sub-Deputy Opium Agent, 5th grade, to be a Sub-Deputy Opium Agent of the 4th grade

Mr. G. R. Carter, Assistant Sub-Deputy Opium Agent, 1st grade, to be a Sub-Deputy Opium Agent of the 5th grade.

Mr. R. W. Blair, Assistant Sub-Deputy Opium Agent, 2nd grade, is promoted to the 1st grade.

Mr. G. W. Dick-Lauder, Assistant Sub-Deputy Opium Agent, 2nd grade, *sub. pro tem.*, is confirmed in that grade.

Mr. J. Augier, Assistant Sub-Deputy Opiom Agent, 3rd grade, is appointed to be an Assistant Sub-Deputy Opium Agent, 2nd grade, *sub. pro tem.*

Mr. O. O'Donnell, Assistant Sub-Deputy Opium Agent, 3rd grade, *sub. pro tem.*, is confirmed in that grade.

Baboo Jagadis Chandra Ray, Assistant Sub-Deputy Opium Agent, probationary grade, is appointed to be an Assistant Sub-Deputy Opium Agent, 3rd grade, *sub. pro tem.*

Mr. G. W. Oliphant, Assistant Sub-Deputy Opium Agent, probationary grade, *sub. pro tem.*, is confirmed in that grade.

Mr. Albert Datta is appointed to be an Assistant Sub-Deputy Opium Agent, probationary grade, *sub. pro tem.*, with effect from the date on which he joins the appointment.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 25th March, 1890.—In continuation of the notification, dated the 31st December, 1889, extending the services of Baboo Jogu Das Bhattacharjya up to the 31st January, 1890, for employment as a Revenue Officer in the Srinagore-Banail Estates as defined in Rule I, Chapter VI of the Bengal Tenancy Act Rules, the Lieutenant-Governor is pleased further to extend that term up to the 31st March, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

NOTIFICATION.

The 25th March, 1890.—Baboo Chandra Kanta Pain, B.L., is appointed to be Secretary to the District Committee of Public Instruction, Darjeeling, *vice* Baboo Mohendra Nath Banerjee, resigned.

P. NOLAN,
Secretary to the Govt of Bengal.

NOTIFICATION.

The 21st March 1890.—Mr. C. J. O'Donnell, C.S., whose services have been placed at the disposal of the Financial Department, is appointed Superintendent of Census Operations in the Lower Provinces of Bengal, with effect from the 1st April 1890.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 20th March 1890.—Baboo Krishna Kali Mukherjee, Deputy Collector, is appointed Deputy Collector of Income-tax in the district of Lohardugga, *vice* Baboo Girindra Chunder Banerjee, deputed to Palamow, and, under section 40 of Act II of 1886, is vested with the powers of a Collector under the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for the construction of a central distillery at Furreedpore, in the village of Alipore, pergunnah Dhuldi, zillah Furreedpore, it is hereby declared that for the above purpose a piece of land measuring, more or less, 4 bighas 10 cottahs and 3 dhurs of standard measurement, bounded on the North by the land of Fuljan Khatun; on the West by the lands of Fuljan Khatun and Bharut Chowdhuri; on the South by Govindopore Road; and on the East by Ekram's road, is required within the aforesaid village of Alipore.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process having been established at Giridih, in the district of Hazaribagh, it is hereby notified that from and after the 1st April 1890, within the following limits which have been fixed with the sanction of the said Board of Revenue no such liquors shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.—The southern boundary of Gadi Khurchutta, in thana Giridih and the Usri Nadi.

Western boundary —The western boundary of thana Giridih.

Southern boundary.—The southern boundary of thana Giridih.

Eastern boundary.—The eastern boundary of thana Giridih.

A. H WARDE-JONES,
For Deputy Commissioner.

NOTIFICATION.

The 25th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Burrisal, in the district of Backergunge, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors shall be introduced or sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery :—

Northern boundary.— Districts of Furreedpore, Tipperah, and Noakholly.

Eastern boundary —District of Noakholly and Bay of Bengal.

Southern boundary.— Bay of Bengal.

Western boundary.—Districts of Khoolna and Furreedpore.

H. SAVAGE,
Officiating Collector.

NOTIFICATION.

The 25th March 1890.—Under the provisions of section 9 of the Bengal Excise Act VII of 1878, and with the sanction of the Board of Revenue, a distillery in which spirituous liquors may be manufactured after the native process will be established at Nasirabad, the head-quarters of the district of Mymensingh, on the 1st April 1890. It is therefore hereby notified that from and after that date, within the following limits, which have been fixed with the sanction of the said Board of Revenue, no such liquors shall be introduced and sold without a pass from the Collector, and no still shall be constructed or worked, or spirituous liquors manufactured, except at the said distillery.

The boundary of the district is as follows :—

Northern boundary —Districts Goalpara and Garrow Hills.

Western boundary.—Districts Rungpore, Bogra, and Pubna.

Southern boundary.—District Dacca.

Eastern boundary.—Districts of Tipperah and Sylhet.

R C. DUTT,
Collector.

JUDICIAL DEPARTMENT.

No. 176A.

The 19th March 1890.—The undermentioned gentlemen are appointed to be Honorary Magistrates of the Kurseong and Nuxalbari Independent Benches in the Darjeeling district, and are vested with the powers of a Magistrate of the 3rd class :—

In the Independent Bench at Kurseong.

Mr. J. S. Court. | Mr. R. R. Landale.
Revd. R. S Wood.

In the Independent Bench at Nuxalbari.

Mr. G. Grant Gordon. | Mr. F. B. Baker.
Mr. H T. Kerr.

The 22nd March 1890.—Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers the undermentioned officers to take down evidence in criminal cases in the English language :—

Babu Bonomali Paramanic, Sub-Deputy Magistrate, Baraset, 24 Pergunnahs.
„ Jugat Chandra Roy, Sub-Deputy Magistrate, Basirhat, 24-Pergunnahs.

Mr. Kedar Nath Roy, Officiating Joint-Magistrate, 24-Pergunnahs, is vested with powers under sections 110, 133 and 260 of the Code of Criminal Procedure.

Under the authority vested in him by the final clause of section 357 of the Code of Criminal Procedure, Act X of 1882, the Lieutenant-Governor empowers Babu Atul Chandra Kar, Sub-Deputy Collector of Tumlook, to take down evidence in criminal cases in the English language.

The 24th March 1890.—The services of Babu Rabi Chandra Ganguli, Munsif of Attia, in the district of Mymensingh, are placed temporarily at the disposal of the Chief Commissioner of Assam.

Babu Rajani Kanta Chatterjee, B. L., is appointed to act as a Munsif in the district of Mymensingh, to be ordinarily stationed at Attia, during the absence, on deputation, of Babu Rabi Chandra Ganguli, or until further orders.

Mr. W. C. Montriou, Sub-divisional Officer of Alipore, in the district of Julpaiguri, is vested with the powers of a Munsif within the limits of that sub-division.

Babu Narayan Chunder Sen, Temporary Deputy Magistrate and Deputy Collector, Backergunge, is vested with the powers of a Magistrate of the first class.

Babu Prosonno Kumar Gupta, B L, is appointed to act as a Munsif in the district of Jessore, to be ordinarily stationed at Jhenida, during the absence, on leave, of Babu Manmatha Nath Mukerjee, or until further orders.

The 25th March 1890.—Babu Priya Lal Pyne, B L., is appointed to act as a Munsif in the district of Rungpore, to be ordinarily stationed at the Sudder station, during the absence, on leave, of Babu Rajani Nath Mitra, or until further orders.

GRANT OF LEAVE TO MUNSIFS.—*The 20th March* 1890.—Babu Manmatha Nath Mukherji, Munsif of Jhenidah, in the district of Jessore, is allowed leave for one month, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

Babu Rajani Nath Mitra, Munsif of Rungpore, is allowed leave for two months, under article 306(*b*) of the Civil Service Regulations, with effect from the date on which he may be relieved.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 20th March 1890.—The declaration dated the 7th June 1888, which was published at page 536, Part I of the *Calcutta Gazette* of the 13th idem, for the acquisition, under the provisions of Act X of 1870, of the land required for a new building for the Tumlook Town Police, in the district of Midnapore, is hereby cancelled.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th March 1890.—The Lieutenant-Governor sanctions the permanent retention of the Rural Sub-Registry Office at Dewangunge, in the district of Mymensingh, which was opened experimentally for one year under orders dated the 27th August 1888.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

ESTABLISHMENT.

The 22nd March 1890.

No. 103.—Mr. A. E. Silk, Assistant Engineer, Brahmini-Byturni Division, is granted privilege leave for three months, with effect from the 12th April 1890.

No 104.—Mr. H. Barlow, Assistant Engineer, attached to the Office of the Superintending Engineer, Sone Circle, is granted privilege leave for three months, with effect from the 8th April 1890, or such subsequent date as he may avail himself of it.

No. 105.—Rai Beni Madhub Mitra Sahib, Assistant Engineer, Arrah Division, is transferred to the Buxar Division, with effect from the forenoon of the 15th instant.

IRRIGATION.

The 24th March 1890.

No 107.—*Notification.*—It is hereby notified that the Chitpore Lock of the Circular Canal will be closed for the purpose of repairs for a period of about three weeks from the 15th April next.

ESTABLISHMENT.

The 24th March 1890.

No. 108.—The following extract from the Government of India, Military Department Notification No 268, dated the 21st instant, is republished for information :—

London Gazette.

No. 268, *dated Fort William, the 21st March* 1890.—The following extracts are published for general information :—

London Gazette, dated the 18th February 1890, page 901.

WAR OFFICE, PALL MALL,
18th February 1890.

Memoranda.

* * * * * * * * *

The undermentioned Lieutenant-Colonels of the Indian Staff Corps to be Colonels—

* * * * * * * * *

George Fraser Eric Smith Neill, Madras, dated 9th December 1889.

* * * * * * * * *

The 25th March 1890.

No. 109.—The following notification by the Government of India, Public Works Department, is republished for general information :—

No 135, *dated 19th March* 1890.—Mr. W. H King, Executive Engineer, 1st grade, *sub. pro tem.*, Bengal, is appointed to officiate as a Superintending Engineer, during the absence, on privilege leave, of Major A. D McArthur, R E., or until further orders

IRRIGATION.

The 25th March 1890.

No. 112.—*Notification* —Notice is hereby given that the Eastern Main Series of the Sone Canals will be closed from the 3rd of May 1890 to the 15th of June 1890.

No. 113.—*Declaration* —Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz , for No. 12, Distributary of the Pattamoondai Canal, it is hereby declared that for the above purpose a piece of land 6 miles long, and averaging in width 39 feet, measuring 28 acres and 19 poles, more or less, of standard measurement, commencing from mouzah Ghagra, killah Ghagradamerpur, passing through mouzahs Birua, Khettrapal, Palkana, Sribantapur, Koro, Kultira Saidpur, Patna-Mirjapur, Mirjapur, Bhursing, Gangpara, Gogua, Hemantpur, and Nasipur, and terminating at mouzah Panduhata, pergunnah Tikan, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 114.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz., for Branch E of No. 12, Distributary of the Pattamoondai Canal, it is hereby declared that for the above purpose a piece of land 7 furlongs and 480 feet long and averaging in width 26 feet, measuring 3 acres and 1 pole, more or less, of standard measurement, commencing from mouzah Gogua, pergunnah Tikan, passing through mouzah Sana-Mulabasanta and terminating at mouzah Dobundha, pergunnah Utihar, in the district of Cuttack, is required within the aforesaid villages.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

No. 115.—*Declaration.*—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken by Government at the public expense for a public purpose, viz , for Branch E-1 of No. 12, Distributary of the Pattamoondai Canal, it is hereby declared that for the above purpose a piece of land 3 furlongs and 420 feet long, and averaging in width 23 feet, measuring 1 acre 1 rood and 39 poles, more or less, of standard measurement, commencing from mouzah Sana-Mulabasanta, pergunnah Chowdakulat, and terminating at the same mouzah and same pergunnah, in the district of Cuttack, is required within the aforesaid village.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

J. M. MCNEILL, *Col.*, R.E.,
Secretary to the Government of Bengal.

ESTABLISHMENT.

The 24th March 1890.

No. 106.—With reference to this Department Notification No. 39 of the 5th February 1890, the services of Mr. W. H. Rushton, Assistant Engineer, 1st grade, Eastern Bengal State Railway, are replaced at the disposal of the Provincial Branch of this Government.

The 25th March 1890.

No. 110.—The following extract from a notification issued by the Government of India, Public Works Department, is republished for information :—

No. 188, *dated the 21st March* 1890.—The Governor-General in Council is pleased to order the following promotions and reversions of Executive and Assistant Engineers attached to State Railways, with effect from the dates specified :—

NAMES.	From	To	Nature of promotion.	With effect from
* *	* *	* *	* *	* *
Anderson, J. A. ...	Executive Engineer, 1st grade, *sub pro tem.*	Executive Engineer, 1st grade.	Permanent ...	23rd January 1890
* *	* *	* *	* *	* *

No. 111.—Rai M. C. Roy Bahadur, Executive Engineer and Officiating Inspector of Local Works in the Dacca Division, is granted privilege leave for one month, with effect from the 15th April 1890, or such subsequent date as he may avail himself of it.

E. J. MARTIN,
Joint-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—(MARINE.)

NOTIFICATION No. 70Mne.

The 22nd March 1890.—Mr. J. H. Apjohn is appointed to act as Vice-Chairman of the Commissioners for making Improvements in the Port of Calcutta during the absence, on privilege leave, of Mr. G. H. Simmons.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal

NOTIFICATION No. 71Mne.

The 24th March 1890.—In continuation of the notification No. 44Mne, dated the 18th February 1890, published at Part I, page 146 of the *Calcutta Gazette* of the 17th idem, it is hereby notified that a competitive examination for the admission of two locally selected candidates into the Bengal Pilot Service will be held at the Port Office on the 31st March 1890, in accordance with the Regulations published at Part I, page 610 of the *Calcutta Gazette* of the 24th June 1885, and subsequently modified under notification No. 89Mne., dated the 18th June 1889, published at Part I, page 526 of the *Calcutta Gazette* of the 19th idem.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

NOTIFICATION No. 74Mne.

The 25th March 1890.—It is hereby notified that, under sections 5 and 10 of Act III (B.C.) of 1887, Mr. H. B. H. Turner has been elected by the members of the Bengal Chamber of Commerce to be a Commissioner for making Improvements in the Port of Calcutta in the place of Mr. C. E. Smyth, whose period of office expired on the 18th instant.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

[First Publication]

NOTIFICATION No. 72Mne.

The 25th March 1890.—The following Notice to Mariners is published for general information.

J. M. MCNEILE, *Col.*, R.E.,
Secretary to the Govt of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE)

NOTICE TO MARINERS—(No. 33.)

INDIA - SOUTH.

CEYLON—SOUTH COAST.

Alteration of Galle light.

THE Master Attendant at Galle has given notice that on or about the 1st April next, Galle light will be changed from the old fixed one to one showing a double flash every half minute.

The flashes will be two seconds each with an interval of three seconds between them.

By direction of the Government of Bengal,

EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th March* 1890.

[First Publication.]

NOTIFICATION No. 73Mne.

The 25th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Govt. of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE.)

NOTICE TO MARINERS—(No. 34).

AFRICA—NORTH-EAST COAST.

GULF OF ADEN.

Position of a newly discovered shoal.

THE Port Officer, Aden, has given notice that the Commander of the Eastern Telegraph Company's Steamer *Chiltern* reports the existence of a shoal in latitude 12° 50′ 35″ N. longitude 43° 24′ 37″ E., with Zi Hill bearing N. 3° East true, distance about 6¾ miles; 3 fathoms was obtained on the northern half of the shoal; the southern part of the shoal was not sounded over; there may be therefore less water on it; the shoal extends in a north-westerly and south-easterly direction, and is about ¾ to a mile in length. There is a passage with 7 or 8 fathoms to the eastward.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 24th March* 1890.

[Second Publication.]

NOTIFICATION No. 65Mne.

The 18th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 32).

BAY OF BENGAL.

BURMA COAST.

Sandoway Buoy Adrift.

A TELEGRAPHIC communication has been received from the Port Officer, Akyab, that the Master of the *Euphrates* has reported that Sandoway buoy has gone adrift.

By direction of the Government of Bengal,
EATON W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 17th March* 1890.

[Third Publication.]

NOTIFICATION No. 60Mne.

The 11th March 1890.—The following Notice to Mariners is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secy. to the Govt. of Bengal, P. W. Dept.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT—(MARINE).

NOTICE TO MARINERS—(No. 31).

INDIA—SOUTH.

CEYLON—SOUTH-WEST AND SOUTH COASTS.

Flashing light on Barberyn island—Delay in exhibition.

WITH reference to Notice to Mariners No. 97, dated 14th October last, issued by this Office, the British Admiralty has given notice (No. 73 of 1890) that further information has been received through the Board of Trade, that owing to unavoidable delay, the light has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every minute*, elevated 150 feet above the sea.

Position, lat. 6° 27¾′ N.; long 79° 57¾′ E.

Flashing light on Dondra head—Delay in exhibition.

That this light also has not yet been lit, and will not be exhibited before March 1890.

The light will be a *flashing* white light, showing a quick flash *every twenty seconds*, elevated 150 feet above the sea.

Approximate position, lat. 5° 55½′ N.; long. 80° 35½′ E.

By direction of the Government of Bengal,
EATON. W. PETLEY,
Port Officer of Calcutta.

PORT OFFICE, CALCUTTA, *the 10th March* 1890.

CIVIL MEDICAL DEPARTMENT, BENGAL.

No. 3781, *dated* 18*th March* 1890.—Assistant Surgeon Nundo Lall Ghose, Teacher of Medicine and Midwifery, Medical School, Dacca, is allowed leave for two months and fifteen days under Article 291 of the Civil Service Regulations.

No. 3799, *dated* 18*th March* 1890.—Assistant Surgeon Chooney Lall Dass, Resident Medical Officer, Cuttack General Hospital, and Teacher of Surgery and Midwifery, Orissa Medical School, is allowed leave for two months and fifteen days under Article 291, of the Civil Service Regulations.

No. 3801, *dated* 18*th March* 1890.—Assistant Surgeon Jadub Kristo Sen is appointed to act as Resident Medical Officer, Cuttack General Hospital, and Teacher of Surgery and Midwifery Orissa Medical School, during the absence, on leave, of Assistant Surgeon Chooney Lall Dass, or until further orders.

A. WILSON, M.D.,
Inspector-General of Civil Hospitals, Bengal.

HIGH COURT NOTICE.

Rules for the Admission of Advocates.

IT is ordered that the Rules for the Admission of Advocates, dated the 1st of July 1874, be and they are hereby repealed, and that in lieu thereof the following Rules be read and passed as the Rules and Orders of the High Court of Judicature at Fort William in Bengal to take effect from 1st day of March 1890:—

Qualification for admission as Advocates.

Any person who is entitled to practise as a Barrister in England or Ireland, or as an Advocate in the principal Courts of Scotland, who is of good character and who intends to practise in this Court, may be admitted as an Advocate of this Court.

Mode of applying for admission.

Letter and documents to be left with the Registrar.

2. The mode of applying to be admitted as an Advocate of this Court shall be by letter, stating the date on which the applicant was called to the bar, and that it is his intention to practise in this Court. The letter shall be addressed to, and left with, the Registrar of this Court, in its Original Jurisdiction, together with—

(1) A certificate showing that he is entitled to practise as a Barrister in England or Ireland, or as an Advocate in the principal Courts of Scotland.

(2) Testimonials to character.

And to be circulated by him to the Judges

3. The Registrar shall circulate the letter, with the other documents to be left with him, to the Chief Justice and Puisne Judges.

Certificate of admission.

4. Every person, on being admitted and enrolled as an Advocate of this Court, may, without the payment of any fee, besides the admission fee, obtain a certificate of admission under the signature of the Registrar and the seal of the Court.

Certificate of being on the roll of Advocates

5. Any Advocate of this Court may, on the payment of a fee of Rs. 5 (to be paid by means of Court-fees Stamps), obtain a certificate under the signature of the Registrar and the seal of the Court, that his name is borne on the roll of Advocates of this Court.

Registrar to have the care of the rolls

Inspection.

6. The Registrar of this Court, on its Original Side, shall have the custody and care of the rolls or books wherein persons are enrolled as Advocates, and shall enrol the name of every person who shall be admitted an Advocate, with the date of his admission, in alphabetical order, in a roll or book to be kept by him for that purpose, to which roll or book all persons shall have free access without fee or reward.

W. COMER PETHERAM.
H. T. PRINSEP.
A. WILSON.
L. R. TOTTENHAM.
J. F. NORRIS.
JONES Q. PIGOT.
J. O'KINEALY.
W. MACPHERSON.
E. J. TREVELYAN.
C. M. GHOSE.
H. BEVERLEY.
GOORGODOSS BONNERJEE.
AMEER ALI.

Sheriff's Office, the 19th March 1890.

NOTICE is hereby given that the Second Criminal Sessions of the year 1890 of the High Court of Judicature at Fort William in Bengal, for the Town of Calcutta and Factory of Fort William, and the places subordinate thereto, will be holden at the Court-house in the Town of Calcutta, on Monday, the twenty-eighth day of April next, at 11 o'clock in the forenoon, and so on from day to day until the said Sessions be over. And it is hereby proclaimed that all persons who will prosecute any of the prisoners to be brought up for trial at the said Sessions be present then and there to prosecute.

H. B. H. TURNER, *Sheriff.*

শরিফ আফিস, সন ১৮৯০ সাল তারিখ ১৯শে, মার্চ্চ।

সকলকে সমাচার দেওয়া যাইতেছে যে সুবে বাঙ্গালার ফোর্ট উইলিয়ম দুর্গের অধীন শহর কলিকাতার ও অন্যান্য স্থানের ফৌজদারী বিচার নিষ্পত্তি জন্য আগামী সন ১৮৯০ সালের ২৮শে, এপ্রেল সোমবার বেলা ১১ ঘটিকার সময় এবং যে পর্য্যন্ত সেশিয়ানের কার্য্য শেষ না হয় প্রতিদিন উক্ত সময়ে কলিকাতার হাই কোর্টের আপন আদালত ঘরে সন ১৮৯০ সালের দ্বিতীয় ক্রমিনেল সেশিয়ান বসিবেক এবং এতদ্দ্বারা প্রচার করা যাইতেছে যে, যে সকল ব্যক্তি কোন করেদির বিরুদ্ধে ফৌজদারী মিছিল করিবেক তাহারা উক্ত স্থানে উক্ত সময়ে হাজির থাকিয়া মোকদ্দমা করে ইতি।

এইচ: বি: এইচ: টারনার, শরিফ।

SMALL CAUSE COURT NOTICE.

UNDER section 7, Act IX of 1887, notice is hereby given that the Small Cause Court Judge of Dacca and Munsheegunge will hold his sittings at Munsheegunge from the 21st to 27th April next, and the rest of the days of the month at Dacca, Sundays and holidays excepted.

K. C. CHATTERJEE, *1st Sub Judge, for District Judge.*

DACCA JUDGE'S OFFICE, *the 19th March* 1890.

EDUCATION DEPARTMENT, BENGAL.

Subordinate Educational Service.

The 18th March 1890.—Babu Hari Prasad Das, Third and now officiating Second Master of the Balasore Zillah School, will continue to officiate as Second Master of the same institution and in class VII, during the absence, on deputation, of Babu Iswar Prasad Pain, B A., or until further orders.

The 21st March 1890.—In supersession of the orders of the 8th February 1890, Babu Mohim Chandra Basu, Departmental Sub-Inspector of Schools, Mymensingh (class VI), is appointed to act as Deputy Inspector of Schools, Noakholly, during the absence, on deputation, of Babu Probhat Chandra Sen or until further orders.

The 24th March 1890 —In supersession of the orders of the 17th February 1890, leave of absence for five months and sixteen days, under Article 371 of the Civil Service Regulations, is granted to Babu Mohim Mohan Bose, B.A., Head Master of the Bogra Zillah School (class V), with effect from the 16th November 1889, or such subsequent date as he may have availed himself of it.

A. CROFT, *Director of Public Instruction.*

NOTICE.

IT is hereby notified for general information that the next Half-yearly Departmental Examination of Assistants and Deputy Magistrates and of Officers of the Police, Jail, Medical and Forest Departments in the Chota Nagpore Division will be held at Ranchi on Monday, the 21st April next, and the following days.

W. H. GRIMLEY,
Commissioner of Chota Nagpore.

Pleadership and Mookhtarship Examinations.

THE following is a list of the candidates who have passed the Mookhtarship Examination held on the 19th and 20th February last :—

Roll number.	Name.
2	Nalini Mohan Lahiri.
6	Jadu Nath Gangopadhya.
25	Chintaharan Rai Chowdhuri.
29	Dakhina Kumar Chowdhuri.
33	Kali Prosad Sen.
34	Ashutosh Chatterjee.
35	Norendro Narayan Ghosh.
37	Monindro Narayan Khundait.
38	Ramjiban Chattopadhya.
45	Ajudhya Prosad Bhatt.
50	Kamla Sahai.
60	Sheikh Amir Ali.
67	Pheku Lal Das.
69	Aminuddin.
75	Kanai Lal Ghosh.
76	Ram Krishna Adhikari.
77	Jagesh Chandra Banarji.
82	Madhu Sudan Upadhyai.
83	Kirti Chandra Ray.
85	Atal Behari Rai.
86	Hari Lal Ghatak.
99	Hari Kumar Chatarji.
100	Jagneshar Sarkar.
113	Tara Charan Chaudhuri.
119	Abdul Azis.
128	Abdul Rauf.
136	Parmeshwar Dyal.
139	Gorakh Nath.
141	Permaishery Pershad.
147A	Tinku Lal.
150	Ganeshar Rai.
153	Mayadhar Das.
157	Gopal Charan Das.
158	Golam Samdani.
160	Damodar Patnaik.
162	Dhruba Charan Das.
185	Kunja Mohan Mukerjea.
186	Aditya Chandra Bandopodhoya.
192	Protap Chandra Somajpoti.
207	Khirode Lal Mukhopadhya.
208	Saroda Mangal Chakravarti.
222	Sarat Chandra Chottapadhya.
224	Bidhoo Bhusan Sen.
225	Upendra Chandra De.
231	Jamarat Biswas.
232	Tasiruddin Khan.
233	Hara Chandra Lahiri.
236	Kalu Meah.
240	Narsingh Narayan.
246	Gouri Charan.
249	Lalkishen Lall.
250	Sayed Aley Nabi.
252	Jugmohan Ram.
258	Mahadeo Pershad.
255	Ram Pershad.
269	Pores Nath Mukerji.
272	Banku Behari Biswas.
285	Baniksanta Chokerbutty.
289	Nobo Kumor Choudhuri.
292	Nassimuddin Sheikh.
296	Radhika Prosad Chatterjee.
302	Satya Gopal Patnack.
307	Nakur Chandra Sarkar.
320	Nrisinha Chandra Chaturji.
324	Jogendra Chandra Ghosh.
327	Umes Chandra Ray.
330	Satkori Banurji.
334	Kalimuddin Ahmed.
337	Prasanno Nath Mazumdar.
345	Hari Prasanno Acharjee.
347	Durga Charan Dutt.
361	Mathur Chandra Baishya.
364	Mohamed Abdul Ali.
374	Sadiruddin Ahmed.
376	Mathura Nath Bhaumik.
392	Afizoddin.
396	Hari Har Sur.
398	Karamat Ali.
400	Abbas Ali.
406	Jyotendra Lal Mukherjee.
409	Satis Chandra Acharjee.
410	Gopal Chandra Sarkar.
411	Sris Chandra Mitra.
412	Hori Lal Banerjee.
415	Makardhuj Sahai.
418	Gojadhor Prosad.
420	Baldeo Sahai.
421	Fatahul Azeez.
425	Jitan Prosad.
428	Surajbonsi Lal.
430	Horihor Prosad.
431	Mazharul Hug.
432B	Naud Kumar.
434	Keshobnath Bishash.
435	Pryonath Guho.
436	Ali Akbar.
443	Giridhor Shaha.
444	Mukundo Chondro Chokrobôrti.
449	Bireshor Kundu.
456	Madan Lal.
461	Dwaraka Nath Satiar.
466	Shadhu Wooddeen Mea.
475	Prasanna Nath Itai.
476	Narendra Nandan Gupta.
498	Bhawani Kanta Chokervarthi.
502	Abir Mahmud Sarker.
511	Ram Lal Ghose.
517	Hemanta Kumar Chokervarthi.
526	Rajib Lochan Chokerbarthi.
535	Ramyad Ojha.
536	Saroda Pershad Mitter.
540	Ganesh Prasad (No. 1), *son of* Mahabir Prasad.
546	Mahuspat Lal.
547	Mukund Lal.
548	Nawab Chand.
549	Nurul Ain.
550	Rambadan Singh.
555	Harish Chandra Surma Choudhuri.
562	Cham Dul Ali.
563	Amanuddin.
572	Akamat Ali.
580	Abdul Hamid.
581	Jugat Bandhu Bhomik.
587	Asraf Ali.
594	Kali Mohon Kor Choudhury.
597	Girwardhari Lall.
600	Jung Bahadur.
602	Gopal Sahoy.
609	Moinul Hug.
610	Alimuddin Hussain.
611	Rajender Sahoy.
616	Zahuruddin.
621	Hem Narain.
627	Rajendra Chandra Mukerji.

Roll number.	Name.	Roll number.	Name.
632	Hari Mohan Sinha.	651	Natabar Raha.
633	Bidhu Bhushan Mitra.	652	Rajendra Nath Banerji.
635	Sashi Bhusan Das.	656	Hem Lal Bhattacharjya.
636	Debendra Nath Basu.	663	Hari Mohan Banerji.
637	Nata Behari Banerji.	666	Bishnu Kisor Chakrabarti.
640	Lakhiat Ulla.	668	Hem Chandra Arnab.
645	Upendra Lal Hazra.	669	Harish Chandra Lahiri.

HENRY T. HYDE,
Secretary to the Board of Examiners for Pleadership and Mookhtarship.

NOTIFICATION.

IN accordance with the Government of Bengal Notification, dated 23rd July 1887, notice is hereby given that the First Half-yearly Examination of Compounders, to be held at the Temple Medical School at Bankipore, will commence from 11 A.M. on 7th April 1890.

2. Every candidate must produce one of the following certificates :—

(*a*) From the Superintendent of a Vernacular Medical School that he has attended regularly for one year the Compounder's class of the school.

(*b*) From the legally-qualified medical manager of a chemist's or druggist's establishment recognized by the Inspector-General of Civil Hospitals for Bengal that he has been apprenticed for a period of three years in his establishment.

(*c*) From a Civil Surgeon that he has assisted in the dispensing of drugs at the Sudder dispensary of a civil station for a period of five years.

Exception.—Any person who at the time of the extension of section 252 of Act III (B.C.) of 1884 to any municipality shall have acted as compounder for the seven years preceding in any shop or place of the kind referred to in the above section shall, on producing a satisfactory certificate to this effect, be exempted from producing a certificate of the kind referred to in this rule.

3. Applicants must register their names and submit their certificates, together with a fee of Rs. 3, at least one week before the 6th April 1890 at the office of the undersigned.

NOTE.—The students belonging to the compounder class of a vernacular medical school will be exempted from paying this fee on producing a certificate from the Superintendent that they have already paid the school entrance fee.

4. Should any candidate fail to pass the required examination he will forfeit his fee.

E. G. RUSSELL, SURGEON-MAJOR,
Offg. Superintendent, Temple Medical School.

TEMPLE MEDICAL SCHOOL, BANKIPORE, *14th March* 1890.

NOTIFICATIONS OF THE BOARD OF REVENUE.

No. 304B.

NOTICE is hereby given that the Fourth Sale of Opium, the provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall Street, on Wednesday, the 2nd April 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory	2,250
Ditto at the Ghazeepore Factory	2,500
Total ...	4,750

2nd.—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd.—The latest dates for deposit and clearance will be the 7th and 17th April 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 3-30 P.M. of Monday, the 7th April 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Thursday, the 7th April 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the opium manufactured at the Patna and Ghazeepore Factories will be brought to sale up to December next about the dates specified below. The Board of

Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES			Manufactured at the Patna Factory, about chests	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Thursday, 1st May	1890	...	2,250	2 500	4,750
On or about Monday, 2nd June	,,	...	2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2 250	2 500	4 750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	..	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2 500	4,750
On or about Monday, 3rd November	,,	...	2,250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
TOTAL		...	18,000	20,000	38,000

By order of the Board of Revenue, L. P,

K. G. GUPTA, *Offg. Secretary.*

BOARD OF REVENUE, L.P., CALCUTTA, *the 25th February* 1890.

No. 483B.

NOTICE is hereby given that the Fifth Sale of Opium, the Provision of 1887-88, will be held at the Government Opium Sale-room, No. 2, Bankshall-street, on Thursday, the 1st May 1890, at 11 A.M., and will comprise 4,750 chests, viz.—

	Chests.
Opium manufactured at the Patna Factory ...	... 2,250
Ditto at the Ghazeepore Factory ...	... 2,500
Total	... 4,750

2nd—The general conditions of the sale now advertised will be the same as usual. They may be ascertained by reference to the Notification issued on the 26th November 1889, and published in the *Government* and *Exchange Gazettes*, or on personal application at the Office of the Board of Revenue.

3rd—The latest dates for deposit and clearance will be the 6th and 16th May 1890, respectively, that is to say, no Bank of Bengal Receipts, Government Promissory Notes, or other public securities that may be tendered for deposit in redemption of Promissory Notes given by purchasers in the sale-room will be received after 3-30 P.M. of Tuesday, the 6th May 1890, and no Bank of Bengal Receipts in full payment of lots will be accepted after 3-30 P.M. of Friday, the 16th May 1890.

4th.—In addition to the quantity above advertised for sale, the following quantities, more or less, of the Opium manufactured at the Patna and Ghazeepore Factories will be brought to sale during the present year about the dates specified below. The Board of Revenue, however, reserve to themselves the right of altering these dates should circumstances render it expedient to do so:—

DATES			Manufactured at the Patna Factory, about chests	Manufactured at the Ghazeepore Factory, about chests.	Total, about chests.
On or about Monday, 2nd June	1890		2,250	2,500	4,750
On or about Wednesday, 2nd July	,,	...	2,250	2,500	4,750
On or about Monday, 4th August	,,	...	2,250	2,500	4,750
On or about Monday, 1st September	,,	...	2,250	2,500	4,750
On or about Wednesday, 1st October	,,	...	2,250	2,500	4,750
On or about Monday, 3rd November	,,	...	2 250	2,500	4,750
On or about Monday, 1st December	,,	...	2,250	2,500	4,750
Total		...	15,750	17,500	33,250

By order of the Board of Revenue, L. P.,

A. E. STALEY, *Offg. Secretary.*

BOARD OF REVENUE, L. P., *Calcutta, the 24th March* 1890.

Statement showing the Importation of Salt (private property) in bond and afloat on the River Hooghly, subject to Customs Duty, on the 15th March 1890

DESCRIPTION OF SALT.	Government golahs.	Private golahs.	Afloat.	Total.
	Mds.	Mds	Mds.	Mds.
Liverpool Punga	7,97,887	.....	6,13 123	14,11,010
Bombay Kurkutch	7,438	.....	..	7,438
Arabian and Persian Gulfs Kurkutch and Muscat Rock ...	7,25,137	.....	.....	7,25,137
Aden Kurkutch	2,70,666	.....	1,09,011	3,79,677
Hamburg salt	1,31,752	.....	35,737	1,67,489
Total ...	19,32,880	.....	7,57,871	26,90,751

By order of the Board of Revenue, L. P.,

J. SCOBELL ARMSTRONG, *Collector of Customs.*

CUSTOM HOUSE, CALCUTTA, *the 22nd March* 1890.

Notification under Section 30 of Act XII of 1882 (The Indian Salt Act).

IN exercise of the powers conferred by the 2nd paragraph of Notification No. 769, dated 11th February 1888, issued by the Governor-General of India in Council (in the Department of Finance and Commerce), under section 28 of Act XII of 1882, and published at pages 67—72 of the *Gazette of India*, dated 11th February 1888, the Commissioner of Salt, Abkari, and Separate Revenue, Madras Presidency, under section 30 of Act XII of 1882, authorizes each of the persons named below to exercise the powers of a Salt Revenue Officer:—

Locality.	Name.	Rank.	Powers to be conferred on each.	REMARKS.
Balasore Circle ...	Shaik Abdul Karim ...	Duffadar, 2nd grade.	Salt Revenue Officer.	Newly appointed.
	Madan Mohun Barik ..	Peon, 1st grade	Ditto ...	Ditto.
	Purushottam Mahanti	Ditto ...	Ditto ...	Ditto.
	Braja Kisore Jena ...	Peon, 3rd grade	Ditto ...	Ditto.
	Panu Naik ...	Ditto ...	Ditto ...	Ditto.
	Romjan Khán ...	Ditto	Ditto ..	Ditto.
	Shaik Azimnulla ...	Ditto ...	Ditto ...	Ditto.
	Lal Mohun Mahanti...	Ditto ...	Ditto ...	Ditto.
	Mahéndra Dás ...	Ditto ...	Ditto ...	Ditto
	Alaf Khán ...	Ditto ...	Ditto ...	Ditto.
	Shaik Idoo ..	Ditto ...	Ditto ...	Ditto.
	Shaik Golah ...	Ditto ...	Ditto ...	Ditto.
	Gópi Náth Masan ...	Ditto ...	Ditto ...	Ditto.
	Bhagirathi Singh ...	Ditto ...	Ditto ...	Ditto.
	Dhurub Barik ...	Ditto ...	Ditto ..	Ditto.
	Khitro Biswal ...	Ditto ...	Ditto ..	Ditto.
Chandbally Circle...	Lalit Mohun De ...	Ditto ...	Ditto ...	*Vice* Gajary Singh deceased.
	Sonai Rant ...	Ditto ...	Ditto ...	*Vice* Parikhit Rant who has forfeited his appointment through absence without leave

E. MILLETT, *Assistant Secretary.*

BOARD OF REVENUE (SEPARATE REVENUE), MADRAS, *the 12th March* 1890.

ELECTION OF MUNICIPAL COMMISSIONERS.

NOTIFICATION.

IT is hereby notified for general information that an election will be held, under section 27, Act III (B C.) of 1884, on Tuesday, the 6th May 1890, in Ward No. V of the Burdwan Municipality, for the purpose of filling up the vacancy caused by the resignation of Munshi Sujjad Korim.

G. TOYNBEE, *Offg. Commissioner.*

BURDWAN COMMR.'S OFFICE, DATED BURDWAN, *the 20th March* 1890.

NOTIFICATION.

The 15th March 1890.—It is hereby notified, under Rule 21 of the Revised Election Rules, for general information, that an election will be held, under section 27 of Act III (B. C.) of 1884, on Monday, the 28th of April 1890, in Ward No. II of the Kishoregunge Municipality, in the district of Mymensingh, for the purpose of electing a Commissioner in the place of Baboo Kalijiban Bir, deceased.

OKHOY COOMAR SEN, *Personal Asst., for Offg. Commr.*

The Calcutta Gazette.

WEDNESDAY, MARCH 26, 1890.

PART IA.

Orders and Notifications by the Government of India, &c.

[*Reprinted from the "Gazette of India."*]

MILITARY SECRETARY'S OFFICE.

NOTIFICATIONS.

Calcutta, the 20th March 1890.

His Excellency the Viceroy and Governor-General will leave Calcutta for Simla on the 30th March 1890.

His Excellency will visit *en route* Saharanpore, Dehra, Mussoorie, and Chakrata, and arrive at Simla on or about the end of April 1890.

All covers intended to reach His Excellency the Viceroy and Governor-General during His Excellency's journey should be addressed—"Governor-General's Camp," without the addition of any Post Town.

The party accompanying His Excellency on tour is as follow :—

Her Excellency the Marchioness of Lansdowne.
Colonel J. C. Ardagh, C.B., Private Secretary to the Viceroy.
Surgeon-Major E. H. Fenn, Surgeon to the Viceroy.
Captain H. A. Pakenham, A.D.C.
Captain G. C. Lister, A.D.C.
F. W. Latimer, Esq.

All communications connected with business of a mere routine nature should be sent as usual to the head-quarters of the several Departments.

Lord William Beresford will be with His Excellency the Viceroy till 5th April only. Covers to the Military Secretary to His Excellency can be addressed to His Excellency's Camp during His Excellency's tour.

The 21st March 1890.

His Excellency the Viceroy and Governor-General will leave Calcutta on the 30th March 1890 at 6-15 P.M., Calcutta time, and will arrive at Simla, *vid* Saharanpore, Dehra, Mussoorie and Chakrata, towards the end of April 1890.

His Excellency's departure from Calcutta will be private, but the usual Viceregal salute will be fired from the Ramparts of Fort William the following morning, the 31st March, at 8 o'clock.

By Command,

WILLIAM BERESFORD, *Lieut.-Col.*,
Military Secretary to the Viceroy.

The following orders, issued by the Government of India in the Home Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

NOTIFICATIONS.—ESTABLISHMENTS.

Calcutta, the 19th March 1890.

No. 182.—Mr. E. H. Ruddock is permitted to resign Her Majesty's Bengal Civil Service, with effect from the 11th April 1890.

MEDICAL.

The 19th March 1890.

No 178.—Brigade-Surgeon J. G. Pilcher, F.R.C.S., Officiating Civil Surgeon, Howrah, to be Deputy Surgeon-General, Central Provinces, *vice* Deputy Surgeon-General J. Richardson.

JUDICIAL.

The 21st March 1890.

No. 383.—The Honourable the Chief Justice of the High Court of Judicature at Fort William in Bengal has appointed Mr. H. W. C. Carnduff, of the Bengal Civil Service, to officiate as Registrar on the Appellate Side of the Court, during the absence, on furlough, of Mr C. M. W. Brett.

POLICE.

The 18th March 1890.

No. 229.—The services of Mr. W. B. Stuart, Assistant District Superintendent of Police, 2nd class, Burma, are placed at the disposal of the Government of Bengal, with effect from the date of the expiry of his leave.

The 19th March 1890.

No. 234.—The services of Mr. I. H. W. D. Clark, District Superintendent of Police, Bengal, are placed at the disposal of the Chief Commissioner of Assam.

C. J. LYALL,
Offg. Secy. to the Govt. of India.

The following orders, issued by the Government of India in the Finance and Commerce Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

LEAVE AND APPOINTMENTS.

The 19th March 1890.

No. 1313.—Mr. S. Jacob is appointed to officiate as Comptroller and Auditor-General and Head Commissioner of Paper Currency, *vice* Mr. E. Gay, who has been granted furlough for nineteen and a half months from the 16th April 1890.

* * * * * *

Mr. J. E. Cooke is appointed to officiate as Deputy Auditor-General, and

Mr. F. C. Harrison, C.S., is appointed to officiate as Deputy Accountant-General, Bengal.

SEPARATE REVENUE

SALT.

The 20th March 1890.

No. 1309.—In exercise of the power conferred by section 28 of the Indian Salt Act XII of 1882, the Governor-General in Council is pleased to make the following rule and to direct its insertion between rules IV and V of the rules published in the Notification of this Department, No 3883, dated the 26th July 1889:—

"IV A. The charges specified in Rule II may be paid and the indent required by Rule IV may be delivered to the Postmaster at any Post Office which has been specially authorised by the Director General of the Post Office of India to receive payments on account of salt revenue. When payment is made into a Post Office under this rule, the Postmaster will himself transmit the indent to the Assistant Commissioner of Salt Revenue by whom the salt is to be supplied, advising him at the same time of receipt of the sum paid by the applicant for the salt."

The charges hereinbefore in this rule mentioned will be the duty and price at the rates respectively fixed and in force on the day when payment is made to the Postmaster.

E. J. SINKINSON,
Secretary to the Govt. of India

The following order, issued by the Government of India in the Foreign Department, is republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 18th March 1890.

No. 939 *I.*—Mr. W. K. Eddis, officiating Solicitor to the Government of India, is appointed to officiate as Agent to the Governor-General in Council for the affairs of the late King of Oudh, and for the purposes of Act XIX of 1887, with effect from the 21st March 1890, and during the absence, on leave, of Mr. R Leycester Upton, or until further orders.

W. J. CUNNINGHAM,
Offg. Secy to the Govt. of India.

The following orders, issued by the Government of India in the Military Department, are republished for general information.

JOHN EDGAR,
Chief Secy. to the Govt. of Bengal.

Fort William, the 21st March 1890.

No. 266.—The undermentioned officers have been granted extensions of furlough or leave by the Secretary of State for India :—

Colonel H. S Jarrett, Bengal Staff Corps, (m. c.) for six months.

* * * * * * * *

VOLUNTEER CORPS.

APPOINTMENTS.

No. 280.—*Calcutta Naval Volunteers*—

The second Christian name of Second Lieutenant Collingwood is Cuthbert, and not as notified in G. G. O. No. 35 of 1890.

E. H. H. COLLEN,
Secretary to the Government of India.

The Calcutta Gazette.

WEDNESDAY, MARCH 26, 1890.

PART IB.

ORDERS BY THE LIEUT.-GOVERNOR OF BENGAL.

MUNICIPAL AND LOCAL.

NOTIFICATION.

The 20th March 1890.—The following list, showing (*a*) the number of members fixed by the Lieutenant-Governor under section 7 of the Bengal Local Self-Government Act, 1885, for the District Board of Bhagulpore, and (*b*) the number of members of the District Board to be elected by each of the Local Boards in the district, is published for general information:—

District Board of	Number of members fixed for the District Board.	Local Board of	Number of members of the District Board to be elected by the Local Board.
Bhagulpore	30	Bhagulpore	5
		Banka	8
		Mudehpura	3
		Sopoul	4

This notification cancels the notification, dated the 2nd April 1887, published at page 113, Part IB of the *Calcutta Gazette* of the 6th idem, so far as it relates to the constitution of the Bhagulpore District Board, and will come into force on the occasion of the next general election of the members of the Board.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 20th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Syed Fuzlar Rahaman to be a Commissioner of the Sonamukhy Municipality in the district of Bankoora, *vice* Baboo Koonja Bihari Ghar.

H. J. S. COTTON,
Offg. Secy to the Govt. of Bengal.

NOTIFICATION.

The 20th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Surat Lal Bose, Assistant Surgeon, to be a Commissioner of the Satkhira Municipality, in the district of Khoolna, *vice* Baboo Bidhu Bhusan Banerjea.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified for general information that the Lieutenant-Governor intends, in the exercise of the power vested in him by section 86 of Act III (B.C.) of 1884, and in accordance with the recommendation of the Commissioners of the Purulia Municipality in the district of Manbhoom, made at a meeting, to sanction the levy by the Commissioners, under section 143 of the Act, of a fee on the registration, under section 142, of all carts which are kept or habitually used within the Municipality, unless good reasons are shown to the contrary within one month from the date of publication of this notification within the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Shah Zohurul Hossain to be a Commissioner of the Rampore Beauleah Municipality in the district of Rajshahye, *vice* Baboo Guru Prasanna Munshi.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Baboo Kedar Nath Biswas, Sub-divisional Officer of Ranaghat, to be the Chairman of the Santipore Municipality in the district of Nuddea, *vice* Baboo Bejoy Madhub Mukerjea, transferred.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified that the members of the Serampore Local Board, in the district of Hooghly, having at a meeting, under section 25 of Act III (B.C.) of 1885, requested the Lieutenant-Governor to appoint a Chairman, the Lieutenant-Governor is pleased under the said section to appoint Mr. H. Thompson, Sub-divisional Officer of Serampore, to be Chairman of that Local Board.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified that the members of the Jehanabad Local Board, in the district of Hooghly, having at a meeting, under section 25 of Act III (B.C.) of 1885, requested the Lieutenant-Governor to appoint a Chairman, the Lieutenant-Governor is pleased, under the said section, to appoint Moulvie Buzlul Karim, Sub-divisional Officer of Jehanabad, to be Chairman of that Local Board.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 21st March 1890.—It is hereby notified that the Lieutenant-Governor is pleased ot approve the election by the members of the Hooghly Local Board, in the district of Hooghly, under section 25 of Act III (B.C.) of 1885, of Baboo Chundra Narain Roy to be their Chairman.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 22nd March 1890.—It is hereby notified for general information that, in exercise of the power vested in him by section 351 of Act III (B.C.) of 1884, the Lieutenant-Governor confirms the bye-laws set forth below, which have been framed by the Commissioners of the Furreedpore Municipality, under section 350 of the Act. They supersede the bye-laws hitherto in force in the Municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

BYE-LAWS.

For regulating the conduct of business at meetings.

1. A list of business to be transacted at any meeting of the Commissioners shall accompany the notice calling the meeting, and no matter which is not contained in such list shall be brought forward for discussion at any meeting, except with the consent of the majority of the Commissioners present at such meeting.

2. Any member desiring to bring forward any motion of a definite proposition before the Commissioners at a meeting shall, at least five days before the date fixed for such meeting, give a written notice to the Chairman of his intention to do so, and such proposition shall be included in the list of business to be transacted at such meeting; provided that if the notice be not in time, the proposition shall not be thrown out on that ground, but shall be entered in the list of business for the next succeeding meeting.

3. The president of a meeting shall guide and control all discussions at such meeting, and his decision on point of order, &c, shall be final.

For regulating the conduct of persons employed by the Commissioners.

4. Any person employed by the Commissioners, whose services may no longer be required, shall be liable to discharge after receipt of either one month's previous notice, or fifteen day's pay in advance, and no person shall, without the permission of the Commissioners, withdraw from the duties of his office without having given previous notice of not less than a month on pain of forfeiting the salary due to him at the time of such withdrawal. Nothing in this bye-law shall apply to a case of dismissal on the ground of dishonesty, incompetency, gross neglect of duty or insubordination, and nothing herein contained shall affect the provisions of section 188 of Act III (B.C.) of 1884.

5. The Commissioners shall have power, in the course of any one month, to inflict, for neglect of duty or disobedience or other sufficient cause, a fine not exceeding one month's salary upon any person employed by them.

6. No person employed by the Commissioners shall engage in trade, either in his own name or in that of any other person, or shall take up, either in his own name or of any other person, any lease or farm of a pound or ferry, or engage in any business other than those of the Commissioners.

7. Unless the Commissioners shall have expressly and in writing otherwise agreed, every person employed by them on a monthly salary shall be bound to give his whole time to their service.

For regulating the mode of sale and assessment.

8. All sales shall ordinarily be made by public auction, and the payment of purchase-money for property sold and the delivery of the property shall be made immediately after the sale. But if the purchaser fail to pay the full amount of his bid, it shall be lawful for the officer conducting the sale, at his discretion, to sell the property again on the same or any other day, and the former purchaser shall in such case be responsible to the Commissioners for any loss which shall be recoverable from him as a debt due to the Commissioners.

9. No officer or servant of the Commissioners shall purchase any municipal property offered for sale at a public auction.

10. Every person required in writing to furnish any return or statement of establishment, income or property, which the Commissioners may require for the purpose of assessment, shall send such return or statement correctly to the office of the Commissioners within one week from the date of the service of the requisition in the manner prescribed by section 356 of the Act. Any person failing to do so shall be liable to a penalty not exceeding Rs. 5 for the omission, and to a further penalty not exceeding Rs. 2 for every day the omission may, after warning, continue.

For regulating the disposal of dead bodies, rubbish, and other offensive matter.

11. Every person within whose premises any animal may die shall, within three hours after death, or if death occurs at night, within three hours of daylight, either remove at his own expense the carcass to such place as the Commissioners may appoint for the purpose, or report its death to the Commissioners, and in such case shall pay to the Chairman or the Vice-Chairman the expenses of removing the carcass at such rate as the Commissioners may from time to time determine.

The penalty for infringement shall be a fine which may extend to Rs. 10, and the expense incurred by the Commissioners in removing such carcass, when neither removed nor reported, shall be recoverable as a debt due to the Commissioners.

12. No person shall throw or deposit, or cause or allow to be thrown or deposited, any carcass, or part of any carcass, in any place other than such places as may from time to time be appointed by the Commissioners for the reception of such carcass.

The penalty for infringement shall be a fine which may extend to Rs. 10.

13. No owner or occupier of any house, land, or premises in or on which any privy may be situated shall allow night-soil or filth of any kind to flow or be discharged from such privy into any drain, water course, river, tank, hollow, or excavation.

The penalty for infringement shall be a fine which may extend to Rs. 20 and to a further fine of Rs. 2 daily, during which the infringement, after notice, continues.

For regulating the use of fire-balloons, fire-works, &c.

14. No person shall let off any fire-balloons, fire-works, fire-arms, or any other missiles within municipal limits without the permission of the Commissioners previously obtained, and except on such terms and conditions as the Commissioners may think fit to impose.

The penalty for infringement shall be a fine which may extend to Rs. 20.

For regulating burial and burning grounds.

15. No person shall carry, or cause to be carried, any corpse through the streets or any public thoroughfare without having it decently and completely covered from public view.

The penalty for infringement shall be a fine which may extend to Rs. 10.

16. No person shall bury, or cause to be buried, any corpse at a place less than two feet apart from any grave where another corpse has once been buried, or in any other line than that marked out for the time being by the Commissioners.

The penalty for infringement shall be a fine which may extend to Rs. 10.

17. No person shall bury, or cause to be buried, any corpse at a depth of less than five feet from the surface, or less than four feet if the corpse be placed in a properly constructed coffin.

The penalty for infringement shall be a fine which may extend to Rs. 20.

18. No person shall re open any grave without the permission of the Commissioners.

The penalty for infringement shall be a fine which may extend to Rs. 10.

19 No person shall leave, or cause to be left, in the burning or burial ground, any cloth, matting or bedding taken with the corpse without burying them or burning them to ashes.

The penalty for infringement shall be a fine which may extend to Rs. 10.

20. No person charged with the burning of a corpse shall cause or permit any portion of it to be left or thrown into the water without completely reducing it to ashes.

The penalty for infringement shall be a fine which may extend to Rs. 10.

21. No person while conveying any corpse shall, except for the purpose of ordinary relief, deposit it on or near any public thoroughfare.

The penalty for infringement shall be a fine which may extend to Rs. 10.

For regulating markets and slaughter-houses.

22. No owner or occupier or farmer of any market for the sale of meat, poultry fish, or vegetables within the municipal limits shall keep or allow the same to be kept in an unclean state.

The penalty for infringement shall be a fine which may extend to Rs. 20, and for continued infringement after notice a daily fine of Rs. 5.

23. Every owner, occupier, or farmer of any market within the said limits shall remove, or cause to be removed, once in every 24 hours, any rubbish or offensive matter which may have accumulated within such period.

The penalty for infringement shall be a fine which may extend to Rs. 20, and for continued infringement after notice a daily fine of Rs. 5.

24. No owner, or occupier, or farmer of, or vendor in, any market, stall, or shop shall sell or expose for sale, or permit to remain therein, any noxious or decomposed meat, fish, or vegetable, and it shall be lawful for the Commissioners to seize and dispose of such articles in any way they think fit.

The penalty for infringement shall be a fine which may extend to Rs. 20.

25. No person attacked with leprosy or any contagious disease shall sell in any market, thoroughfare, or in any other public place any fish, meat, milk, butter, ghee, vegetable or any other article of food.

The penalty for infringement of this bye-law shall be a fine which may extend to Rs. 20.

For regulating traffic in the streets and generally for all purposes of the Act.

26. No person shall put, or allow to remain, in or upon any house or premises any pipe or spout by which water, starch, or other liquid substance may fall, or be discharged upon, any public road or thoroughfare.

The penalty for infringement shall be a fine which may extend to Rs. 20, and to a further fine not exceeding Rs. 5 for each day during which the offence is continued after notice to desist from such offence.

27. No person shall without permission make a shop, stall, or godown, or any part thereof, over any public drain or road, or in any way occupy or use any culvert, bridge, or platform which may have been placed over any public drain, or any land belonging to the Commissioners.

The penalty for infringement shall be a fine which may extend to Rs. 25, and to a further fine not exceeding Rs. 5 for each day during which the offence is continued after notice to desist from such offence.

Any permission granted under this section shall be liable to be withdrawn after 15 days' notice at the pleasure of the Commissioners.

28. No person shall, without and except in accordance with the permission of the Commissioners and beyond such time as the Commissioners may allow, keep or allow to be kept, or deposit, or allow to be deposited, any bricks, wood or other article on any public road, berm or drain, or expose or allow to be exposed for any purpose any article on any such road, berm or drain.

The penalty for infringement shall be a fine which may extend to Rs. 50, and a daily fine not exceeding Rs. 10 for each day during which the offence is continued after notice to desist from such offence.

29. No person shall, without the permission of the Commissioners previously obtained, and then only subject to such conditions as may be prescribed with such permission, wash, soak or steep in any river, khal, tank, nullah, ditch or drain, or allow to remain under water any skin, bone, bamboo, jute, flax, hemp or any other substance which by remaining in water may either corrupt the water or cause an offensive smell.

The penalty for infringement shall be a fine which may extend to Rs. 30, and a further fine not exceeding Rs. 10 for every day on which the offence is continued after conviction, or after the offender has been required by the Commissioners to desist from such offence.

30. No person shall tether or picket or let loose, or allow to be tethered or picketted or let loose, any animal on any road or any drain or the bank of any tank belonging to the Commissioners.

The penalty for infringement shall be a fine which may extend to Rs. 20.

31. No person shall, without the permission of the Commissioners, cut sods or grass from the margin of any road, drain, or tank belonging to the Commissioners.

The penalty for infringement shall be a fine which may extend to Rs. 20.

32. No person shall allow any pigs to be at large, or keep them otherwise than in closed styes.

The penalty for infringement shall be a fine which may extend to Rs 20.

33. No person shall allow any diseased or worn out animals to stray into any public thoroughfare, or use them in drawing any vehicle.

The penalty for infringement shall be a fine which may extend to Rs. 20.

34. No person shall picket animals, or collect carts, or form any encampment, on any public ground without the permission of the Commissioners, or for any length of time beyond what the Commissioners may allow.

The penalty for infringement shall be a fine which may extend to Rs. 20; and in default to break up after notice a daily fine not exceeding Rs. 5.

35. No person shall place, leave, or stop on any road any cart, carriage, or other vehicle except for the purpose of loading or unloading, or for settling the price of any article carried therein, and even in such cases sufficient space must be left on one side of such vehicle for the free passage of men and other vehicles.

The penalty for infringement shall be a fine which may extend to Rs. 10.

36. No person shall wash in any tank, ditch, khal, or well within the municipality the clothes, bedding, or furniture used by any person suffering from cholera, small-pox, or any other contagious disease.

The penalty for infringement shall be a fine which may extend to Rs. 50.

37. Every cart, carriage, or other vehicle driving, or elephant passing, between dusk and dawn on any public road or thoroughfare shall carry at least one conspicuous light.

The penalty for infringement shall be a fine which may extend to Rs 20.

38. Whenever a carriage, cart, or any vehicle meets any other carriage, cart, or vehicle on any public road, each of such carriages, carts, or vehicles shall go to the left in due time before they meet, and pass each having the other to its right.

The penalty for infringement shall be a fine which may extend to Rs. 10.

39. Whenever a cart carrying anything more than twelve feet long is taken on any public road, no less than two persons shall be in immediate attendance upon such cart, one of whom shall be constantly in front of such cart.

The penalty for infringement shall be a fine which may extend to Rs. 10.

40. Whoever, being the owner, hirer, user, rider or conductor of an elephant shall take it on any public road without the permission of the Commissioners previously obtained shall be liable to a fine which may extend to Rs. 50.

41. No person shall, without the written permission of the Commissioners, put up any fence or net or other obstruction in any nullah, drain or watercourse belonging to the Municipality, or communicating with the nullah, drain or watercourse belonging to the Municipality, and the Commissioners may order the removal of any such obstruction upon notice of 24 hours.

The penalty for infringement shall be a fine which may extend to Rs. 20, and a further fine not exceeding Rs 5 for every day the offence is continued after such notice.

42. No person shall throw, or allow to be thrown, on any road, drain, or other public ground, bricks, broken bits of glass or iron, or any earthenware or crockery or any other thorny rubbish

The penalty for infringement shall be a fine which may extend to Rs. 10.

43. The Commissioners may give notice to the owner of any trees or shrubs overhanging any public tank, well, or watercourse, and liable to foul the water thereof, or any public drain, to cut or trim the same in such manner as the Commissioners may direct, regard being had to public health, safety, or convenience.

Whoever fails to comply with such requisition shall be liable to a fine which may extend to Rs. 20, until such requisition is complied with.

44. No person shall use any public urinal as a privy, and no male person shall resort to any public privy or bathing ghât which the Commissioners may separately provide for females and *vice versâ*.

The penalty for infringement shall be a fine which may extend to Rs. 25.

45. Whoever removes, defaces, or disturbs the position of any sign or notice-board or order posted by the Commissioners shall be liable to a fine which may extend to Rs. 10.

46. Whoever violates an order made under section 236 of the Act shall be liable to a fine which may extend to Rs. 50, and to a further fine not exceeding Rs. 5 for every day of continued disobedience after notice.

NOTIFICATION.

The 22nd March 1890.—It is hereby notified for general information that, in exercise of the power vested in him by section 351 of Act III (B.C.) of 1884, the Lieutenant-Governor confirms the additional bye laws set forth below, which have been framed by the Commissioners of the Darjeeling Municipality under section 350 of the Act.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

BYE-LAWS.

22. No cart (not being a municipal cart, or a cart arriving from the plains) or truck shall be used in the Central Bazar Roads and up to the Forest Department wood godown on the Dispensary Road at all on Sundays, nor except between sunrise and sunset on any other day than Sunday.

23. No cart (not being a municipal cart) or truck shall be used at all on Sundays, nor on any other day than Sunday, except between 10 A M. and 3 P M. from the 15th March to 15th November, and between sunrise and sunset from the 16th November to 14th March, on the following roads or parts thereof, namely—

(1). Tonga Road *vid* Auckland Road to North Point.
(2). Jellapahar Road from the Chowrasta to the gate of the Dingle.
(3). Mall Road all round.
(4). Meadow Bank Road *vid* upper part of Mount Pleasant Road round by Ashley Road.

24. The penalty for every infringement of any of the foregoing bye-laws shall be a fine not exceeding ten rupees.

25. Except as hereinafter provided, no cart or truck shall carry any greater load than 20 maunds in weight on any road belonging to the Municipality.

26. No cart or truck carrying a weight in excess of 20 maunds shall be used on any of the above roads, or on any road belonging to the Municipality, without the previous permission in writing of the Commissioners, nor without special arrangements being made with them, providing for such precautions as they may deem expedient for the protection of the public and the safety of the roads, bridges, drains, culverts, or other property belonging to the Municipality, and such indemnifications as may seem to them necessary for any damage that may arise from such use as aforesaid.

27. The penalty for every infringement of either of the last two preceding bye-laws shall be a fine not exceeding fifty rupees for the first day of such infringement, and a fine not exceeding twenty rupees for every succeeding day on which the infringement is continued after written notice from the Commissioners.

NOTIFICATION.

The 24th March 1890.—It is hereby notified that, under section 27, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to appoint Mr J. A. Hopkins, C.S., to be the Chairman of the Patna Municipality, *vice* Mr. C. J. S. Faulder.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 24th March 1890.—It is hereby notified that, under section 19, Act III (B.C.) of 1885, Baboo Achinta Nath Mitra has been elected to be a member of the Soory Local Board, in the district of Beerbhoom, *vice* Baboo Durga Das Roy, deceased.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION

The 24th March 1890.—Under rule 9 of the rules framed under section 5 of the Local Authorities Loan Act, 1879, it is hereby notified for general information that the Lieutenant-Governor intends to sanction the following application from the Commissioners of the Bankoora Municipality for a loan of Rs. 5,000 from Government, bearing interest at 4½ per cent. per annum, unless good reasons are shown to the contrary within one month from the date of the publication of this notification within the said municipality.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

APPLICATION FROM THE MUNICIPAL COMMISSIONERS OF BANKOORA FOR A LOAN OF Rs. 5,000.

1	2	3	4	5						6								7
The work or works for the construction or repair of which the loan is required, and an estimate of the cost thereof	The amount which it is proposed to borrow.	The fund or funds on the security of which it is proposed to borrow	The law or laws under which the said fund or funds is or are levied, received or held.	5(a) The period for which the loan is required.	5(b) The number and amount of the instalments, if any, in which it is proposed that the loan shall be taken.	5(c) The dates proposed for receiving such instalments.	5(d) THE INSTALMENTS IN WHICH IT IS PROPOSED TO REPAY THE LOAN.			A DETAILED ACCOUNT OF THE REVENUE AND EXPENDITURE OF THE LOCAL AUTHORITY FOR THE THREE LAST PRECEDING YEARS.								All existing prior charges upon the funds of the local authority.
							Principal.	Interest at 4½ per cent.	Total.	Heads of Receipts.	For 1886-87.	For 1887-88.	For 1888-89.	Heads of Expenditure.	For 1886-87	For 1887-88	For 1888-89.	
The acquisition and re-excavation of a tank known as the Poddar pukur, as also for excavating six wells in different parts of the town for improving the water-supply— Rs. Cost estimated at 5,000	Rs 5,000	The Municipal Fund	Act III (B C. of 1884.	Years 10	One instalment of Rs 5,000.	1st July 1890	Rs 1st Jan 1891, 250 1st July ,, 250 1st Jan 1892, 250 1st July ,, 250 1st Jan. 1893, 250 1st July ,, 250 1st Jan. 1894, 250 1st July ,, 250 1st Jan. 1895, 250 1st July ,, 250 1st Jan 1896, 250 1st July ,, 250 1st Jan 1897, 250 1st July ,, 250 1st Jan 1898, 250 1st July ,, 250 1st Jan 1899, 250 1st July ,, 250 1st Jan 1900, 250 1st July ,, 250 Total 5,000	Rs A. P. 63 3 4 1,264 2 8	Rs. A. P. 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 3 4 313 2 4 313 2 4 6,264 2 8	Balance at commencement of year.	Rs. 2,255	Rs 606	Rs 804	Head Office establishment.	Rs. 911	Rs. 864	Rs 898	Nil.
														Cost of audit and Banking establishment,	156	150	152	
										Tax upon occupiers of holdings—				Cost of collection of Municipal Taxes.	303	303	307	
										Arrears .	219	79	42	Lighting ..	397	333	404	
										Collection for current tax.	5,714	5,686	5,521	Buildings and other works.	1,564	8	811	
										Penalties ...	209	105	75	Repairs ...	16	13	8	
										Tax on vehicles—				Dispensary charges ...	1,738	1,970	1,765	
										Carriage tax ..	63	105	93	Vaccination ..	126	121	138	
										Cart registration fees	348	296	329	Road watering	217	116	93	
										Tax on animals—				Conservancy and road cleansing	1,254	1,983	1,316	
										Horses, ponies, mules and donkeys.	51	69	67	Drainage works	497	197	203	
										Collection under Cattle-Trespass Act	243	342	257	Works undertaken for private persons.	...	..	4	
										Income derived from markets and slaughter-houses	492	573	596	Public Instruction— Contributions to schools.	545	530	546	
										Municipal fines .	39	36	78	Construction and maintenance of roads	1,143	1,224	1,093	
										Dispensary endowments and subscriptions.	24	58	23	Cattle-pound charges	..	..	39	
										Rent of Municipal lands.	...	7	1	Other charges ...	219	35	129	
										Other receipts ..	220	237	369	Miscellaneous ...	162	29	41	
										Total Receipts ..	7,621	7,583	7,447	Total Expenditure ..	9,270	7,335	7,947	
										Advances recovered and deposits received.	901	917	887	Advances made and deposits refunded	758	678	788	
										GRAND TOTAL	10,777	9,106	9,126	GRAND TOTAL ..	10,028	8,003	8,735	

BANKOORA MUNICIPAL OFFICE,
The 30th December 1889.

HURRY MOHUN MOOKERJEE,
Chairman.

NOTIFICATION.

The 24th March 1890.—It is hereby notified that, under section 22, Act III (B.C.) of 1884, the Lieutenant-Governor is pleased to reappoint Mr. P. S. Lindeman to be a Commissioner of the Darjeeling Municipality.

H. J. S COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th March 1890.—It is hereby notified for general information that, under section 6, Act I (B.C.) of 1885, the Lieutenant-Governor declares the Jhanta ferry over the river Lukhandye, in the district of Mozufferpore, to be a public ferry.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

NOTIFICATION.

The 25th March 1890.—It is hereby notified that, under section 7, Act III (B.C.) of 1885, the Lieutenant-Governor, is pleased to appoint the following gentlemen to be members of the District Board of Chumparun :—

The Civil Surgeon		*Ex-officio.*
The Sub-divisional Officer, Bettiah		
The Deputy Collector in charge of the Road Cess Department		
The Deputy Inspector of Schools		
Hon'ble T. M. Gibbon, C I E.	Mr. A. C. R. Edwards.	
Baboo Hurungi Misser.	,, G. R. Carter.	
,, Kali Pershad Tewari.	,, H. W. J Hill.	
Mr. J J. Macleod.	,, W. B. Hudson, C.I.E.	
Baboo Kanti Bhuson Banerji.	,, A. W. Wyatt.	
,, Mohabir Singh.	,, A. C. J. Macdonald.	

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 20th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Barranagore Municipality for the diversion and the widening of the existing approach to Colvin's Ghât for bathing and landing within the village of North Barranagore, pergunnah Calcutta, district 24-Pergunnahs, it is hereby declared that for the above purpose the followings plots, containing an area of 4 cottas and 11½ chittacks of standard measurement, more or less, are required within the aforesaid village--

Plot No. 1.—Bounded on the North and East by the Victoria Road; South by the land of Khetra Chundra Banerjee; and West by the Strand Road.

Plot No 2.—North by Colvin's Ghât Road; East by the Strand Road; South and West by the premises belonging to Messrs. Burneo and Company.

2. This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 21st March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for widening the drain between premises Nos. 3 and 4, Nulpooker Lane, it is hereby declared that for the above purpose pieces of land Nos. 2 and 3, Nulpooker Lane, and 12 and 15, Emambaree Lane, in the town of Calcutta, district 24-Pergunnahs, measuring, more or less, 1 cottah 5 chittacks and 21 square feet only, are required.

The boundaries of the lands are as follows—On the North portions of Nos. 2 and 3, Nulpooker Lane, and 12 and 15, Emambaree Lane; on the South a public drain; on the East Nulpooker Lane, and on the West partly No. 3, Nulpooker Lane, and partly No. 17, Emambaree Lane and a public drain.

A plan and specifications of the lands are filed in the office of the Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 22nd March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Municipality of Jessore for a public purpose, viz., for the re-excavation of two tanks, one called Lalldighi and the other Kansari, in the town of Jessore, zilla Jessore, it is hereby declared that for the above purpose two pieces of land, one measuring, more or less, 4 bighas 3 kottas and 5 chataks, and the other measuring, more or less, 5 bighas 5 kottas and 5 chataks of standard measurement, are required. The Lalldighi tank is bounded on the North by the Mistrikhana Road; on the East by the houses of Babous Ramesh Chundra Banerjee and Rajoni Kanta Ghosh; on the South by Baboo Bamon Das' garden, and on the West by the Chanchra Raja's house occupied by Baboo Pyari Lall Chatterjee, Baboo Bamon Das' house and Baboo Jogendra Chundra Sen's house. The Kansari tank is bounded on the North by Moguljan Biswas' land; on the East by Sookur Mahmud's house and Komoruddy's land; on the South by Massim Mridha's land and Nur Mahomed's land, and on the West by Nawab Ali Khondkar's land and Moguljan Biswas' land.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

DECLARATION.

The 24th March 1890.—Whereas it appears to the Lieutenant-Governor of Bengal that land is required to be taken up by Government at the expense of the Calcutta Municipality for a public purpose, viz., for opening roads in Chinapara bustee, *i.e.* extending roads B and C to Blackburn's Lane, it is hereby declared that for the above purpose pieces of land Nos. 23 and 29 Blackburn's Lane in the Town of Calcutta, district 24-Pergunnahs, measuring more or less, 4 kottas 15 chataks and 30 square feet, are required. The boundaries of the land are as follows:—

Portion marked A on plan.—On the North Blackburn's Lane; on the South Municipal land; on the East No. 23, Blackburn's Lane, and on the West No. 22, Blackburn's Lane.

Portion marked B on plan—On the North No 28, Blackburn's Lane; on the South partly No. 30, Blackburn's Lane and partly No. 89, Chunam Gully; on the East Blackburn's Lane, and on the West partly No. 15, Chattawala Gully and partly Municipal land.

A plan and specifications of the land to be acquired have been filed in the office of the Municipal Commissioners for public inspection.

This declaration is made, under the provisions of section 6 of Act X of 1870, to all whom it may concern.

H. J. S. COTTON,
Offg. Secy. to the Govt. of Bengal.

The Calcutta Gazette.

WEDNESDAY, MARCH 26, 1890.

PART II.

Advertisements.

[N.B.—Advertisements, Notices, &c., intended for insertion in this part of the Gazette, cannot be received after Noon on Monday.]

LAND SALE NOTICES.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Maldah, will be put up to sale at the Maldah Collectorate on 26th March 1890, corresponding with 14th Chaitra 1296 B.S.

The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1st.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2nd.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force ; and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3rd.—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid at once.

4th.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government), and the estate to be again put to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

Number on the district roll	Name of estate and pergunnah	Approximate area in acres.	Government revenue assessed
		A R P	Rs
98	Kismut Jot Kusturi, pergunnah Kotuali ...	62 0 12	50

Collector's Office, district Maldah, the 6th February 1890. POORNO CHANDRA CHATTERJEE, Dy. Collr in charge

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Beerbhoom will be put up for sale at the Collector's Office of that district on 26th March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears d from it.
		Rs A. P.				Rs A. P.	Rs. A P.	Rs A P
53	Shahapur, pergunnah Joynugal.	3,490 7 0		2a. 13g. 1k. 1 kranti	Choudhuri Mahomed Ichcha and others.	581 11 8	..	4 7 0
75	Turigram, pergunnah Shahajapur	1,508 0 0	The whole	.. ..	Shekh Tarikulla		0 2 0	.. ...
94	Gokulata, pergunnah Chakala Gokulata.	3,250 14 0		8a.	Dharmadas Gati Mustafi and others.	1,625 7 0	.....	13 1 6
109	Daurka, pergunnah Ichchapukhuria.	1,803 1 0		13a. 17g 2k.	Giris Chandra Choudhuri, guardian of Kumaris Chandra Roy minor, and others	1,563 9 2		3 10 1
122	Bijitpur, pergunnah Akbarshahi.	2,090 1 0		9a 8g 1kap 8 til.	Nil Madhab Roy and others.	1,760 12 11	.....	14 [illegible] 6
936	Palitpur Basantapur pergunnah Dadshahi	751 10 6	The whole	.	Ratan Kumari Bila and others.	...	218 8 0	

Beerbhoom Collectorate, the 10th February 1890. N. K. SARKAR, Dy Collector in charge.

NOTICE is hereby given that the undermentioned plot of the Nizamut lakhraj State lands, situate in the district of 24-Pergunnahs, will be put up to sale at the Collectorate of the 24-Pergunnahs on Friday, the 28th March 1890—

The purchaser of the plot will be subject to the following conditions :—

I.—The plot will be sold revenue-free to the highest bidder above the upset price.

II.—The sale to be subject to existing leases, and to the rights conferred by the settlement proceedings and by the laws in force, and purchaser to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

III.—If the amount of the purchase-money do not exceed Rs. 100, the whole amount will be paid downat once.

IV.—If the amount of the purchase-money exceed Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled (the sum deposited being forfeited to Government), and the plot to be again put up for sale at the risk of the defaulting purchaser after issue of advertisement as in the case of original sale.

V.—The purchaser shall be put in possession on receipt of the orders of the Collector approving of the sale, but such possession shall be liable to be disturbed in case the final confirmaton of the Board of Revenue should not be accorded to the proceedings.

Name of estate.	Mouzah.	Pergunnah.	Approximate area.	Annual assessment.	Upset price.	Boundaries.	REMARKS.
			B K. CH.	Rs. A. P.	Rs. A. P.		
Dak Adda	Chitpore ...	Amirabad ...	0 3 6	16 14 0	506 4 0	South of the dwelling house of Jitu Dhobi, east of the tank belonging to Zebunnissa Begum, north of the dwelling-house of Talemun Jemadar, and west of a public road and the sepoy post.	Dwelling-house of Kudroo Dhobi of Chitpore.

K. N. ROY, Deputy Collector, for Collector on tour.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned estate, situate in the district of Bhagulpore, will be put up to sale at the Bhagulpore Collectorate, on Monday, the 31st day of March 1890, corresponding with 25th Choitra 1297 Fusli.

The purchasers will be subject to the following conditions of sale.

Conditions of Sale.

1. The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2. The sale to be subject to existing leases and to the rights conferred by the settlement proceedings, and by the laws in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the revenue authorities.

3. If the amount of purchase-money do not exceed Rs 100, the whole amount to be paid down at once.

4. If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the 15th day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled, the sum deposited being forfeited to Government and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

Number on district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Upset price.	REMARKS.
		Acres.	Rs.	Rs.	
4981	Kolakhurd Bhatatar, pergunnah Bhagulpore.	3	10	20	

Bhagulpore Collectorate, the 25th February 1890. A. A WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Khulna will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

1	2	3	4	5	6	7	8	9
No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
114-1	Kismut pergunnah Bajitpur	2,124 4 7		Share No. 1, 3as. 3g. 2a. 16t.	Shital Nath Bhanga and others.	420 2 8	.....	22 8 0
127-1	Kismut pergunnah Bhaluka	14,948 15 8	..	Share No. 1, 4g. 13-5-8-1	Grijanath Ray Chowdhury and others	224 13 5		31 10 5
159-4	Kismut Ramdanga, pergunnah Sarpurajpur.	549 13 8		Share No. 4, 2as ...	Haran Chandra Majumdar and others.	68 11 8	.. ..	13 3 2
170-2	Kismut pergunnah Silimabad	5,754 8 6	..	Share No. 2, 2as. 9g.	Syamacharan Bosu and others.	865 11 9½	..	310 15 6

Khulna Collectorate, the 9th February 1890. B. DE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Dacca will be put up for sale at the Collector's Office of that district on the 26th March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
115	Pergunnah Patpashar, Banameh Mahadev Mukhopadhya.	10,768 0 1½	... ...	Residue share Huya 2a. 13g. 1kr. 1kt.	Hara Sundari Chaudhurani and others. Monindra Nath Mukhopadhya and others.	8,973 5 4½ 1,794 10 9	...	3,624 7 4½ 725 9 7
193	Pergunnah Rajnagar, tuppeh Hosanabad Jawar Hyderabad Khachak Pitrush market.	688 5 4½	Entire estate.	.	Sukhmoy Chandra Das himself and manager for Gour Hari Das and others.	.....	69 12 2½	.
194	Pergunnah Rajnagar, huya Raj Krishna Sen Chakla Nurpur Hurannessa.	705 9 11½	..	Residue share	Husni Khanam and others	261 13 6½		78 11 9
197	Pergunnah Rajnagar, Chakla Nurpur, Debi Prosad Sen.	632 10 8½		Huya 2g. 3kr 3kt	Durga Sunker Sen ...	5 7 9	...	2 3 1
272	Pergunnah Shahebabad May Peshkash Dewani, Banameh Mirza Hyderali.	532 5 4		Residue share ... Huya 1a. 11½g.	Rajendra Narain Bandopadhya. Ditto ditto ...	133 5 1 52 1 4	....	83 7 1 33 9 9
325	Tuppeh Moheswardi, Banameh Saha Nawaj Khan, Elahi Nawaj Khan.	14,133 5 4½		Huya 15g. 1kr. 1kt. 6t. Ananda Mohon, Hari Mohon and Krishna Mohon Das	Ananda Mohon Das and others	677 2 6	..	192 3 9
391	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, huya 6a. Radha Madhav.	1,412 9 1	...	Residue share	Nanda Kumar Guha ..	425 6 1½	.....	150 11 6
392	Pergunnah Bikrampur, taluq Brindavan Chandra Radha Kishore Sen, huya 6a. Raj Kishore Sen.	1,488 9 1	.....	Ditto ...	Rup Lal Raghu Nath Das and others.	554 10 2½	... ...	145 8 7
534	Pergunnah Bhawal Jawar Naludkot, taluq Sridhar Hari Rati, Krishna Ram Chakraverty.	544 0 0		Ditto Huya 1a Banga Chandra, Har Chandra Chakraverty Huya 3a. 2kr. 1kt Bramya Mayi Debya	Joy Chandra Chaudhury and others. Banga Chandra Chakraverty and others. Brahmya Mayi Debya	74 15 9½ 34 0 0 16 4 8	....	43 12 2½ 14 5 9½ 14 1 1
558	Pergunnah Mobarak Ujan, taluq Jagir Abdulla.	961 1 0½	.....	Residue share ...	Showdamini Gupta and others.	384 6 9½	.....	74 13 3
562	Shahar Chandina May Peshkash Chandina, Maulvi Abdul Ali.	1,896 10 8	. ..	Ditto ...	Protap Chandra Das and others.	664 8 2	.....	170 4 0
569	Pergunnah Bikrampur, taluq Ram Ganga Bosu.	664 3 0	.....	Ditto ...	Sitamani and others	256 9 0	...	95 0 0
4519	Pergunnah Patpashar, taluq Golam Hosen Chaudhuri.	230 3 11½	.. ...	Ditto . Huya 1½a. Najbannessa and others. Huya 3a. 2g. 1kr 1½g. Hamidannessa and others.	Amirannessa Khatoon, Manager for Maulvi Abdul Hye and others. Najbannessa and others. Hamidannessa Khatoon and others.	239 1 9 87 3 5 131 13 2	.. ..	86 15 11 8 9 10 55 11 1
5849	Pergunnah Hasjara Raja Ram Chaudhuri.	823 10 1	Entire estate	.. ...	Gojendra Nath Shome and others.	... .	1 12 0	.....
6551	Pergunnah Rajnagar, taluq Debi Prosad Ghosh.	641 2 1½		Residue share	Kala Chand Shaha and others.	535 1 8½	.....	40 1 8
8484	Char Ruktabali	584 0 0	Entire estate	. ...	Pran Nath Pare and others.	..	183 0 0	.....
8660	Tuppeh Amirabad, Estate No. 234.	760 4 1½	Ditto	.. ...	Abhaya Charan Das and Brojendra Kumar Rai Chaudhuri.	. ..	72 14 3	.....
9069	Char Pukurhati within Char Krishnapura.	319 0 0	Ditto	.....	Kripa Mayi Debya and others.		7 2 0	.. ..
9085	Mouzah Golara Baluchari within Char Jalua Kamta	752 0 0	Ditto	.... .	A. M. Bhoogy Shahab, Receiver.	...	149 0 0	.....
9161	Char Tilli within Char Mirzapur.	1,187 0 0	Ditto		Kailash Bashini and Bindhu Bashini Chaudhurani and others	....	239 0 0	... .
9702	Pergunnah Burda that Char Delwarpur.	4,196 0 0	Ditto ..		Jaharuddin Hyder and others.	.....	1,052 0 0	... ..

Dacca Collectorate, the 8th February 1890.

L. HARE, Offg. Collector.

NOTICE is hereby given, under section 6 of Act XI of 1859, that the undermentioned estates and shares of estates in the district of the 24-Pergunnahs will be put up for sale at the Collector's Office of that district on the 15th April 1890, for arrears of revenue which fell due on the 12th January 1890.

1	2	3	4	5	6	7	8	9
Touji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, the specification of such share or shares.	Names of proprietors of properties to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
18	Pergunnah Magura, mouzah, Khariberia and others.	4,091 4 2½	Whole estate.	.. ..	Hem Chundro Rai Chowdhury and others.	.	636 3 10½	
53	Pergunnah Magura, Kismut Rameshurpur and others.	3,287 3 0	Do. ..	..	Radha Mohon Mondle and others	.	215 2 9½	..
63	Pergunnah Magura, Kismut Bashdroni and others.	9,135 6 1½		0a 13g. 1kr. 9½ residuary share.	Indromoni Dassi	6,817 7 11½	.	1,731 2 10
64	Ditto ditto ...	6,342 4 9	.....	10a 8g. 6kag. 8 residuary share.	Prosonna Kumar Banerjee and others	4,455 12 9	.	40 0 8
151	Pergunnah Bareedhati and other kismut, chuck Haturia and others.	39,930 11 11½	... ..	15a 15g 2kr. 12½ residuary share.	Troylukho Nath Biswas and others.	39,374 1 11½	.....	274 15 2
315	Pergunnah Mooragacha, Kismut Roghunathpur and others.	10,256 13 10½	... ..	9a 7g. 3kr 1kt residuary share.	Saroda Dasi and others.	6,020 9 0½		136 3 10½
322	Pergunnah Mooragacha, mouzah Aulumpur and others.	10,565 0 2	...	8a. 16g. 11kg. 9-8 residuary share.	Shib Narain Mukerjee and others	5,854 7 5½	..	131 15 11
348	Pergunnah Bala, Kismut Panchoor and others.	2,136 15 4	..	10a 13g 1kr 1kt. residuary share.	Monindro Mohun Mookerjee and others.	1,424 10 2½	... .	95 12 9½
350	Pergunnah Balia, mouzah Krishnanagur and others.	3,137 8 3	.. ..	13a 17g 2kr. 1kt. residuary share	Monindro Mohan Mukerjee and others.	2,720 13 0	..	822 0 9
355	Pergunnah Balia, Kismut Raipar and others.	2,762 0 7	.. .	10a 10g. 1kr 1kt. residuary share	Bankey Behary Mondle and others.	1,815 7 4½	... .	50 4 0½
358	Pergunnah Balia, mouzah Rajarampur and others	1,194 3 5	Whole estate.	....	Kally Kristo Mondle and others.	... ..	99 12 7½	
385	Pergunnah Azeemabad, Hooda Roch Khalli and others	19,434 8 1½	.....	Excluding shares separated under section 10 of Act XI of 1859 and under section 70, Act VII (B. C.) of 1876, the residuary share paying a revenue of Rs 10,055-1-6.	Anpoorba Coomari Dassi and others.	10,055 1 6	.....	128 2 7½
388	Pergunnah Balia, mouza Molowapur and others	8,327 4 6		11a. 12g. 3kr 1kt. residuary share.	Bankey Behary Mondle and others	.471 7 2½	4.	150 8 . 5
389	Pergunnah Balia, mouza Santoshpur and others.	9,434 9 7	.	10a. 10g 1kr. 1kt. residuary share.	Ditto	5,101 4 7½	.. ...	186 7 2
391	Pergunnah Mooragacha, mouza Gomookhi and others	5,538 8 6	.	8a 9g 2kr 2kt. residuary share.	Ditto ..	3,250 12 9½	.	49 12 8
394	Pergunnah Azeemabad mouza Kismarepur and others.	7,018 12 11	....	10a 10g 1kr 1kt residuary share.	Saroda Dassi and others.	4,672 8 11½	..	47 1 4
396	Pergunnah Azeemabad, taruff Molowapur and others.	14,657 13 11	Whole estate.	..	Kailash Chundra Mondle and others.	.....	2,840 8 5	..
397	Pergunnah Magura, mouza Kallynagur and others.	943 14 4	. .	14a residuary share	Chundra Coomar Mondle and others.	825 14 6½	...	165 4 7½
398	Pergunnah Magura, mouza Mathalia and others.	741 11 5		13a. 12g. share ...	Ditto	613 15 5½	.....	87 5 4
401	Pergunnah Azeemabad, Hooda Ramkistopur and others.	6,941 9 7	.	10a. 10g. 1kr. 1kt residuary share	Saroda Dassi and others.	5,877 8 10	.....	68 11 4½
403	Pergunnah Azeemabad, taruff Pathorberia and others.	3,143 3 3		15a. 1ag residuary share.	Ditto ..	4,982 7 8	.....	20 11 3
1534	Pergunnah Moyda, taruff Bantra and others	14,681 6 4	. ..	4a 2kr. 2kt. residuary share.	Sourot Mohini Dassi and others.	3,700 14 9	... .	132 2 11

Alipore, the March 1890. H. HOLMWOOD, Covd Deputy Collector, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates in the district of Gya will be put up to sale at the Collector's Office of that district on the 31st March 1890, for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7 and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale.

1	2	3	4	5	6	7	8	9	10
Touji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	REMARKS
		Rs A P					Rs A. P.		
177	Sandesha, pergunnah Anchla	854 6 0	The whole		Khaja Ubaidulah *alias* Nauhe Nawab and others	... ..	7 0 9		
3314	Bazidpur, Kashe Manora, pergunnah Manora.	508 12 0	Do. ...		Sayed Mohammad Abgo Saleh and others	..	3 9 9	... ..	

Gya Collectorate, the 3rd March 1890. G. A GRIERSON, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Bhagulpore will be put up for sale at the Collector's Office of that district on Monday, the 31st March 1890, corresponding with the 25th day of Chaitra 1297F S., for arrears of revenue and other demands which, by the Regulations and Acts in force, are directed to be realised in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Rampur Taluqa, pergunnah Bhagulpur, thana Sultangunj	1,240 10 0	...	The residue ijmali share of which separate account has not been opened.	Nand Lal Pandy and others.	351 15 0	.....	8 9 0
95	Mandar Tappah, pergunnah Bhagulpur, thana Banka.	1,706 12 0	.....	16g mouzah Pair ash, 16g Jhajha, 16g Makasar, 16g Rafatpur.	Tarni Pershad Misser, &c.	5 0 0	... .	2 8 0
				The residue ijmali share of which separate account has not been opened.	Khedan Lall, &c. ...	327 12 0	... ..	97 0 0
134	Bishitti, pergunnah Chye, thana Kishengunj	589 6 0	.....	1c. 10g. share	Ganga Ram Kumar, &c.	55 5 0	.	6 14 0
335	Bikrampur Chakrami, taluqa Nisf, pergunnah Chye, thana Bihpur.	7,711 15 0	.....	Mouzah Jamaluddinpore 10g, Bishenpur Gopal Lekwajpur 5g, Bishenpur Amri 3g 1c 1k, Syad Nuruddinpur 3g. 1c. 0k 1d., Bannudat Jalkar, Deara Jalkar, Ganga Charan Jalkar, Parsuram Jalkar, Kali Das Jalkar, 2g 2c	Dilukh Ram Mandwari.	23 2 0	.....	2 15 0
				The residue ijmali share of which separate account has not been opened	Apachh Kumar, &c. .	610 0 0	.....	1,369 13 0
379	Masum Nawaa Kismut, pergunnah Chye, thana Kishengunj.	703 15 0	.. ...	The residue ijmali share of which separate account has not been opened.	Singheswar Pershad, &c.	353 0 0	.....	133 0 0
384	Nagarparah Kismut, pergunnah Chye, thana Bihpur.	877 15 0	Whole	... ..	Rajbati Kumri ..	... ..	109 4 0	.....
386	Ditto di to	645 11 0	..	5c 4p share	Rajbuti Kumri ..	215 4 0	.....	26 2 9
				The residue ijmali share of which separate account has not been opened.	Santokhi Rai, &c. ..	215 8 0	.....	0 4 0
460	Bhagwanpur taluqa, pergunnah Nesankhpur Kurah, thana Supaul	1,203 1 0	.....	Ditto ditto ...	Radha Singh, &c.	271 5 0	.....	169 9 0*
471	Ganzapur Rajnigote taluqa, pergunnah Nesankhpur Kurah, thana Madhepurah	11,254 2 0	.....	8c. share	Rakhal Rai	2,109 5 0	... ..	791 0 0
				6p. share	Takruman Nissa ...	351 9 0	.....	131 13 0
479	Sarowni Kalan, pergunnah Nesankhpur Kurah, thana Keshongunj	851 8 0	.. ..	2a. mouza Sarowni Kalan .	Lakhbuti Kumri ..	77 8 0	... ..	29 1 0
				The residue ijmali share of which separate account has not been opened.	Jagarnath Ram, &c. ..	542 9 0	... ..	203 7 0
538	Thalha, pergunnah Naraidigar, thana Supole.	1,084 8 0	... ..	4g 2c 2k 13r., mouzah Thalha .	Ghansham Singh Jha	3 5 0	...	1 4 0
				The residue ijmali share of which separate account has not been opened.	Ditto ditto	93 4 0	.....	35 5 0
548	Faridpur, pergunnah Chhai, thana Kotwali.	668 11 0	Whole ..	...	Rajbuti Kumri ...	... .	223 5 0	.... .
3198	Mahwhpur taluqa, Banahrah kismut, pergunnah Bhagulpur, thana Amarpur.	1,534 11 0	.....	The residue ijmali share of which separate account has not been opened.	Gajadhar Pershad urf Gyadin.	767 6 0	...	192 2 0
3861	Kalyanpur, pergunnah Dhaphar, thana Pratapgunj.	913 5 0	.....	Ditto ditto ...	Khub Lal Sahu, &c....	627 14 0	... ..	235 6 0
3863	Bhawanipore, pergunnah Dhaphar, thana Pertabgunj.	1,309 0 0	.....	Ditto ditto	Qamaruddin	144 7 0	... ..	57 5 0
5165	Supole taluqa qismat, pergunnah Malhnigopal, thana Supole.	803 13 0	Whole...	...	Kishor Narain Singh &c.	.....	0 4 0	.....

* This was sold on 16th September 1889, but appeal against this sale is pending.

Bhagulpur Collectorate, the 27th February 1890.

A. A. WACE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Cuttack will be put up for sale at the Collector's Office of that district on the 7th April 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors.	If a share is to be sold, the sudder jumma of such share or shares.	If the whole estate is to be sold, the arrears due from it.	If a share is to be sold, the arrears due from such share or shares.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
59	Kismut talook Kalimegha, pergunnah Jajpoor.	1,196 7 4	.....	Out of the estate kismut, 11*a.* 9*p.* 15*k.* 2*b.* 10*g.* share of Ananta Panda and others.	Ananta Panda, Kanahai Panda and others.	891 2 0	.....	9 0 5
656	Kismut mouzah Nagaspur, pergunnah Suhang.	928 13 7½	.....	Out of the estate kismut, 15*a.* 2*p.* 9*k.* 2*b.* 12*g.* 3*kaurs* share of Chaudhari Juggernath Santra Mahapater and others.	Kripa Sindhu Chaudhari and others.	883 11 0	.....	1 5 7½
742	Kismut mouzah Barahipur, pergunnah Sughunda.	531 4 10	Whole estate	.....	Gobind Chandra Palsaraj and others.	... ..	16 7 7	... .
744	Talook Manda, pergunnah Sughunda.	1,615 14 1	Ditto ...	.....	Juggernath Santra Mohapater and others.	.....	23 6 3	.....
1328	Talook Upper Barnan, pergunnah Barnan.	590 4 9	Ditto ...	.....	Daya Nidhi Dubai and others.	.....	20 7 10	.....
1961	Kismut mouzah Altpur, pergunnah Kodinda.	655 10 6	.....	Out of the estate kismut 14 annas share of Radha Madhob Santra and others.	Radha Madhob Santra and others.	573 11 3	.....	81 3 3
2034	Kismut talook Rajhungsa, pergunnah Kodinda.	1,695 3 10	Whole estate	.....	Radha Madhob Santra, Hurra Kristo Mohanty and others.	.....	211 14 3	.....
2071	Talook Sree Sanderpur, pergunnah Silo.	960 3 0½	.....	Out of the estate kismut 13 annas share of Kasi Nath Dass and Surja Mani Dis and others.	Syed Abdul Kadar and others.	796 5 7½	.....	20 7 4½
2402	Talook Bisnabar, pergunnah Bakhrabad.	2,886 1 11	Whole estate.	.....	Radha Madhob Santra and others.	.....	250 11 8½	... ..
2737	Mouzah Kantimal, pergunnah Kata.	505 10 3	Ditto ..	.....	Kanhoo Charan Chaudhary and others.	.....	3 5 4	.....
3535	Kismut mouzah Narigan, pergunnah Katia.	729 14 7	Ditto ...	.....	Janardan Mahapater and others.	.....	1 14 11	.. ..
3844	Talook Balabhadra, pergunnah Tikan.	1,106 13 4½	Ditto ...	.....	Chaudharanee Madha Dei, grandmother and guardian of Madan Mohan Das, minor.	.....	191 12 8½	.....

Cuttack Collectorate, the 20th February 1890. A. C. SEN, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Burdwan, will be put up for sale at the Collector's Office of that district on 27th March 1890, for arrears of revenue and other demands, due on the 12th January 1890, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
21	Mahata, pergunnah Monoharshahy.	Rs. A. P. 11,686 5 7	.....	The parent estate, the sudder jumma of which is Rs. 10,310-6-4, will be sold. The separate account share of the estate, the sudder jumma of which is Rs. 1,375-15-3, will not be sold.	Chandkumari Debi and others.	Rs. A. P. 10,310 6 4	Rs. A. P.	Rs. A. P. 269 13 7
59	Mohunpur, pergunnah Bagha.	1,653 7 11	The whole estate.	.....	Nabakrusto Mukhopadhya, guardian on behalf of minor Upendra Narain Mukhopadhya.	.....	553 5 6	.....
62	Paisona, pergunnah Dhima.	7,400 11 11	.....	The parent estate, the sudder jumma of which is Rs. 3,960-10-1, will be sold. The separate account share, the sudder jumma of which is Rs. 3,940-1-10, will not be sold	Harak Chand Golacha and others.	3,960 11 1	.....	26 6 3
5174	Saikuni, pergunnah Burdwan.	1,693 6 5	.....	The parent estate, the sudder jumma of which is Rs. 1,256-5-7, will be sold. The separate account share, the sudder jumma of which is Rs 437-2-10, will not be sold.	Sheik Alim Ullah and others.	1,256 5 7	.....	301 0 6

Burdwan Collectorate, the 28th February 1890. H. F. J. T. MAGUIRE, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Patna, will be put up for sale at the Collector's Office of that district on 31st March 1890, corresponding with 25th Chyet 1297 F.S. (Monday), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue for the kist of 13th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
2	Alipur Dhongawan, pergunnah Telladha.	Rs. A. P. 1,533 11 9	... .	5a. 6d. 15k. ...	Mussamut Jharakha Kuer and others, non-applicant.	Rs. A. P 447 11 9	Rs. A.P.	Rs. A. P. 5 13 6
3	Bhelwa Barhri, &c., pergunnah Rajgir.	2,297 11	.....	A. D. Bhelwa ... 5 10 Borhri ... 5 10 Dumri ... 5 10 Chak Rasul 5 10 Chak Soribi 5 10	Shaikh Chowdhri Zohurul Hoq and others, applicant for separation of account.	789 13 0	.....	16 7 9
4	Bhooski, pergunnah Baikatpur.	881 9 2	Whole ...	.....	Bajrang Persad and others.	.....	0 0 11	.....
12	Bakipur Goruk, pergunnah Azimabad.	1,560 8 3	Do. ...	.....	Babu Nomit Lal and others.	.....	138 3 0	.....
17	Indont, pergunnah Shahjehanpur.	1,015 0 0	Do. ...	.....	Syed Amod Hosain and others.	.....	39 10 4	.....
37	Bara Chak Bara, pergunnah Telladha.	800 8 6	.....	10a.	Sookhoo Sah and others, non-applicant.	500 5 3	.....	0 0 7
40	Bazidpur Partheo, pergunnah Telladha.	533 5 4	.....	9a. 8p.	Mussamut Jhorokha Kuer and others, non-applicant.	323 3 8	.....	9 11 5
47	Hisah Chowsanda, pergunnah Biswak.	906 10 8	.....	5d.	Mussamut Sharifan, applicant for separation of account.	14 2 9	.....	3 8 8
47	Ditto ditto ...	906 10 8	.....	7d. 10k.	Mussamut Shakran, for self and guardian of Mussamut Badlan, applicant for separation of account.	21 4 0	.....	5 5 6
47	Ditto ditto ..	906 10 8	.....	6a. 0d. 16k. 13b. 6pk. 13r.	Muleak Zohurul Hoq and others, non-applicant.	342 5 0	.....	22 13 1
50	Dyalpur, pergunnah Pilich.	2,420 4 3	.....	Dyalpur, 10a. 6d. 11k. 15b. 18pk. 10r. Bhagwantpur Utra, 10a. 4d. 2k. 19b. 18pk. 10r. Moheshpur, 10a 4d. 11k. 17b. 3pk 16r. 10f. Chak Astha, 10a. 1d. 8k. 9b. 5pk. 10r. Patasong Bandeb, 10a. 8d. 5k. 2b 3pk. Tharthori Khurd, 10a. 15d. 3k. 13b. 1pk. 10r. Lodipur Teni, 10a. 4d. 11k. 13b. 3pk. 16r. 10f	Mussamut Tara Kuer and others, non-applicant.	1,558 5 10	.....	1 3 3
69	Charni, pergunnah Shahjehanpur	1,030 0 0	. ....	10a. 10d.	Mussamut Moniran and others, non-applicant.	1,063 2 0	.....	0 0 2
69	Poona Chhariahri, pergunnah Pilich.	1,068 12 10	Whole ...	....	Babu Behari Lal and others.	.....	33 6 4	.....
70	Gobindpur Birhna, pergunnah Bhimpur.	634 0 0	.....	.....	Tafazul Hosain and others	.....	1 0 0	.....
101	Kapsawan, pergunnah Pilich.	1,813 6 1	. ..	14a 8d. 12k. 13b. 15pk.	Syed Mombar Rahman, manager of the estate of Debi Persad, lunatic, applicant for separation of account.	1,535 2 0	.....	150 10 0
101	Kapsawan, pergunnah Pilich.	1,813 6 1	.....	1a. 11d. 7k. 6b. 5pk.	Mahabir Persad Singh and others, non-applicant.	178 4 1	.....	9 12 9
126	Ghosstawan, pergunnah Biswak.	659 8 11	.....	10a. 11d. 19k. 11b 15pk. 9r. 2 fol-coast.	Syed Kazim Ali and others, non-applicant.	436 13 8	.....	7 12 3
135	Khejura, pergunnah Shahjehanpur.	1,495 14 6	Whole ...	.....	Mussamut Sharfan and others.	.....	75 9 2	. ....
136	Panwarah, pergunnah Pilich.	572 12 1	Do. ...	.....	Lachman Persad and others.	.....	217 12 7	.....
140	Korari Hajipur, pergunnah Shahjehanpur.	1,261 1 1	Do. ...	....	Shaikh Khoda Bax and others.	.....	261 4 3	.....
147	Kasbah Barhowna, pergunnah Pilich.	5,712 0 0	.....	Kasbah Barhowna, 12a. 5d. 2k. 10b. 1pk. 10r Karut, 16a. 6d. 15k. 16b. 16pk. 10r. Barara, 12a. 17d. 10k. 2b. 7pk. 10r Ahrawan, 12a. 17d. 10k. 2b 7pk. 10r. Babhanawan, 13a, 5d 2k. 10b. Athabalpur Pathana, 13a. 5d. 2k. 10b.	Syed Ahmad Hosain, father and guardian of Syed Kifait Hosain and others, non-applicant.	4,490 10 10	.....	447 4 10
164	Rampur Tini, pergunnah Pilich.	563 7 6	Whole ..	.....	Mussamut Jagpati Kuer, mother and guardian of Ram Persad Singh and others.	.....	0 3 8	.....
167	Shaik Mohomedpur, pergunnah Bhimpur.	592 14 0	... ..	1a. ...	Wasir Ali, applicant for separation of account.	37 1 0	. ....	3 15 11
167	Ditto ditto ...	592 14 0	.....	11a.	Mussamut Saliman and others, non-applicant.	407 9 6	.....	99 10 2
186	Makhdumpur Kasba, pergunnah Biswak.	694 6 5	.....	2a. 6d. 12k. 19b. 10pk.	Shaikh Khurshedali and others, applicant for separation of account.	101 3 8	.....	20 2 11
186	Ditto ditto ...	694 6 5	.....	1a. ...	Mussamut Rohiman, applicant for separation of account.	48 6 6	.....	10 13 6

1	2	3	4	5	6	7	8	9
Towji No	Name of mehal and pergunnah.	Sudder jumma of the whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrear due from it.
		Rs A. P.				Rs A. P	Rs. A. P.	Rs. A. P.
189	Makhdumpur Kasba, pergunnah Biswak.	694 6 5	.....	19d. 8k. 2b. 14ph 5r.	Tika Rout and others, non-applicant	42 0 7	..	4 11 7
200	Mastafapur Ar awan, pergunnah Shahjehanpur.	1,281 1 1	Whole	...	Mussamut Bibi Sharfan and others	...	255 15 5	
207	Ghoserawan, pergunnah Behar.	1,985 9 0	....	10a. 4d 15k. 18b. 11ph. 3r.	Syed Karamat Hosain and others, non applicant.	1,270 11 5	.....	1 15 9
225	Akbarpur Bhadwar, pergunnah Masondha.	3,215 10 9	.....	Ans Akbarpur Bhadwar 16 Panauhi ... 16 Dorawan ... 4 Shorampur .. 16 Sherpur ... 16 Hushanpur Lachman ... 16 Momiupur Nadawana 16 Mosumpur Bandauli .. 16 Chak Shamsuddin .. 16 Kodera . 16 Katari Biliori . ... 16 Rupapur . 16 Paiganpur ... 16 Shibdaspur Kurkuri . 16 Jadopur .. 16 Moazamabad, Bali Pakar ... 16 Dariapur Anant ... 16 Sikaria . 16 Parsurampur Hir ... 16 Jalalpur Elahi ... 16 Ranipur Misrowli ... 16 Kishopur .. 16 Shazadpur Mori ... 16 Atapur Rukun .. 16 Alampur Jarkha . 16 Radhunathpur Mori ... 16 Saidabad Bikram 16 Bela Gobindpur ... 16 Patranga .. 16 Ahmedabad Khania .. 16 Bali Patowna ... ... 16 Patowna ... 16 Raghunathpur Jagbandan ... 16 Korikisho ... 16 Kishopur ... 16 Masondhakhas ... 16 Harinagar ... 16 Nasirpur Biga ... 16 Bihta ... 16 Abdullapur Khankuli 16 Ganga Chak Mal Nazumpur 16 Padopur ... 16 Mahomed Khanpur Dorab ... 16 Fizilpur Patan .. 16 Ibrahimpur 16 Adampur Ganga ... 16 Parsurampur Kanak 16 Bishunpur Manshahi .. 16 Maroute ... 16 Karanpura .. 16	Babu Sheonandan Persad and others, non-applicant	2,604 11 10	..	14 0 1
301	Mastafabad Asarhi, pergunnah Telladha	883 12 0	Whole ...	.. ..	Shaikh Fazloor Rohoman	.....	110 6 2	.....
337	Muradpur Bind, Fatehpur Bind, pergunnah Behar	802 2 0	Whole ...	.....	Churawan Singh and others.	.....	0 5 7	.....
365	Khodaboxpur, pergunnah Azimabad.	3,236 0 7	.....	Gangapur, 1a. 10d. Baria Khurd, 1a. 10d. Bhagwanpur, 1a. 10d. Rukunpur, 1a 10d Mohomedpur, 1a. 10d. Dalanpur, 1a 10d.	Bishan Sahai, applicant for separation of account.	110 1 8	.....	20 5 8
355	Ditto ditto ...	3,236 0 7	.....	Pir Mohomedpur Deara, 16a	Jagoo Lal Upadhia and others, non-applicant.	472 10 7	.....	32 14 11

1	2	3	4	5	6	7	8	9
Towji No	Name of mahal and pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share.	Names of proprietors of property to be sold.	If only a share is to be sold the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
		Rs A. P				Rs A P.	Rs A. P	Rs A. P.
427	Akbarpur Kurtha pergunnah Telkadha	813 5 4	..	5a 4p	Raj Bahadur Singh and others, non-applicants.	284 7 1	.	0 3 5
429	Kasbah Sherepur, pergunah Manair.	2,615 10 11	.....	9a 13d. 4k 5b. ..	Mussamat Hamidunnisa and others, non-applicants.	1,415 13 3	.	61 2 3
473	Mustafapur Arai pergunnah Sanda.	797 13 10	..	4a	Syed Wajid Hosain and others, applicants for separation of account	199 7 5	.	49 14 0
678	Utarnawan Buzurg, pergunnah Behar.	2,323 0 0	..	9a. 15d. ..	Syed Ahmed Hosain and others, non-applicants	1,415 0	. . .	11 13 9
556	Kishanpur Karowla, pergunnah Gyaspur	781 0 0	.. ..	14a. 10a. . . .	Khajih Syed Hosain and others non-applicants	685 6 5	.....	0 0 3
724	Jehangirpur Mongarpal, pergunnah Manair.	2,316 4 4	.	1a.	Rai Monohar Lal and others, applicants for separation of account.	144 12 3	.. ..	0 1 3
724	Ditto ditto ..	2,316 4 4	..	15d. . .	Seetapat Sahai and others, applicants for separation of account.	108 10 0	..	0 15 5
724	Ditto ditto ..	2,316 4 4	.. ....	1a 11d 17k. 15b. ..	Mussamat Sriana Kuer and others, non-applicants	230 7 1	... ..	14 12 10
726	Yakubpur Tungi, *alias* Fateh Ali Chak, pergunnah Behar.	651 0 0	. ..	9a. 10p 8c. 8m. ..	Syed Mahomed Ismile and others, non applicants.	401 8 0	.. ..	86 4 11
				2nd Kind.				
733	Arazi Towfir Rampur Ghoshur, pergunnah Manair	1,336 5 11	Whole ..	..	Srikewal Singh	.	1,483 6 2	
742	Arazi Beshi Deara Mohasi Jehangirpur, Mongarpal, pergunnah Manair.	1,561 8 3	.....	5a 11d 13k 6b. ...	Moulvi Abdul Karim and others, separation of account.	520 8 1		90 9 3
742	Ditto ditto ..	1,561 8 3	...	2a 5d.	Kishandyal Lal and others non-applicants	219 11 4		5 6 1
778	Sabnawan, pergunnah Gyaspur	1,403 11 11	... .	.	Mussamat Sharfan and others.	... ..	373 6 10	

PATNA COLLECTORATE, BANKIPORE, the 28th February 1890. C. J. S. FAULDER, for Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Jessore will be put up for sale at the Collector's Office of that district on the 8th April 1890, corresponding with 27th Chaitra 1296 (B S), for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other shares in the estate are excluded from the sale

1	2	3	4	5	6	7	8	9
Towji No.	Name of mahal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
6	Anpara, pergunnah Isafpur	Rs A P 899 6 11	Whole.	.....	Syama Charan Ghosh and others.	Rs A. P.	Rs. A. P 87 6 8	Rs. A. P.
193	Madhupur, pergunnah Mahamed Sahi	539 1 3	.....	Share No. 1 ...	Hari Nath Basu and others	129 10 5	. ...	2 13 6
238	Sidhipasa, pergunnah Isafpur	2,335 4 7	.....	Do. ,, 1 ..	Mukta Kesi Chaudhurani	467 1 0	.....	135 13 6
238	Ditto ditto ..	2,335 4 7	. .	Do. ,, 2	Gopeshur Pal Chaudhury.	467 0 11	. ..	135 12 9
238	Ditto ditto ..	2,335 4 7	.. ...	Do. ,, 3 ...	Ditto ditto ..	467 0 11	. ...	135 14 2
238	Ditto ditto ..	2,335 4 7	.. ...	Do. ,, 4 ...	Chandi Mani Chaudhurani	934 1 9	.. ...	271 11 4

Jessore Collector's Office, the 1st March 1890. C. J. O'DONNEL, Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates, in the district of Rajshahye, will be put up for sale at the Collector's Office of that district on 27th March 1890, Thursday, corresponding to 15th Chaitra 1296 B S, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No	Name of mahal and pergunnah	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it
307	Kismat pergunnah Dhamin.	Rs A P 4,300 2 0	. ...	Excluding the share for which separate account has been opened.	Gokul Chandra Chowdhury, and Sayad Abdul Selam	Rs A P. 1,903 5 0	Rs A. P	Rs A P 13 13 0

Rajshahye Collectorate, the 21th February 1890. O. C. CHATTERJEE, Deputy Collector in charge.

NOTICE is hereby given that the undermentioned plots of land no longer required by Government, situated along the western or Bettiah extension of the Tirhoot State Railway in the district of Chumparun, will be put up to sale on Monday, the 21st April, and following days, at Motiharee.

The purchasers of the plots will be subject to the following conditions:—

1*st*.—The purchasers will have no power to make any excavation on the land nearer than fifteen feet from the railway fencing, or plough it closer than three feet from its foundation.

2*nd*.—If the amount of purchase-money does not exceed Rs. 100, the whole amount to be paid down at once.

3*rd*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by the fifteenth day after the sale, reckoning the day of the sale as one, or if the day be a close holiday, then by the noon of the first succeeding office day, the sale to be cancelled, the sum deposited being forfeited to Government, and the land to be again put up for sale at the risk of the defaulting purchaser, after issue of advertisement as in the case of original sale.

4*th*.—The plots will be sold revenue-free to the highest bidders.

5*th*.—The purchasers shall be put in possession on receipt of the orders of Board approving of the sales, but such possession shall be liable to be disturbed in case the final confirmation of the Board of Revenue should not be accorded to the proceedings.

Consecutive lot number.	Name of zillah.	Pergunnah and mouza.	Number of mile on which land is situate.	Situated on which side of the railway.	Approximate area of lot in bighas and in acres.		Land excluded from sale from each lot.		Commencement and termination of lot.	Boundaries of lot.
					B. K. CH.	A. R. P.	Reasons for exclusion.			
51	Chumparun ...	Parsowni, pergunnah Mehsi.	85	East	.....	1 0 35	.....	... ..	From the end of lot No. 49	East—Railway A class land. West—Zemindari land. North—Village. South—Lot No. 49, village Bishunpore Kateen.
52	Ditto ...	Chak Bara	85	West	.....	0 1 9	.....	... ...	From boundary of village Parsowni to the termination of the lot as per plan.	East—Zemindari land and village boundary. West—Railway A class land. North—Village lands. South—Lands of village Parsowni
53	Ditto ...	Ditto	86	Do.	.....	1 2 8	.....	.....	From the termination of lot No. 52 to the boundary of the village	West—Zemindari land. East—Railway A class land. North—Boundary of village Kooriah. South—Village Chakbara.
54	Ditto ...	Ditto	86	East	.....	1 6 32	.....	.....	From chainage No 4564 to the boundary of the village.	West—Railway B class land. East—Zemindari land. North—Boundary of village Kooriah. South—Zemindari land.
55	Ditto ...	Kasmarpore	91	West	.....	0 3 6	.....	.....	From village boundary to the commencement of lot No. 56.	West—Zemmdari land. East—Railway A class land. North—Lot No. 56. South—Village boundary.
56	Ditto ..	Ditto	92	Do.	.....	1 3 6	.....	.....	From termination of lot No. 55 to the boundary of village Kooriah.	West—Zemindari land. East—Railway A class land. North—Boundary of village Kooriah. South—Lot No. 55.
57	Ditto ...	Ditto	92	East	.....	1 2 24	.....	.....	From boundary of village Ramgudhwa to the boundary of village Kooriah.	West—Railway A class land. East—Zemindari land. North—Village boundary of Kooriah. South—Boundary of village Ramgudhwa.
58	Ditto ...	Chandsarae	95	Do.	.....	0 0 14	.....	.....	From boundary of village Punditmore to the boundary of village Madhochapra.	West—Railway A class land. East—Zemindari land. North—Boundary of village Madhochapra. South— Ditto Chandsariah.
59	Ditto ...	Loknathpore	107	West	.....	1 3 28	.....	.....	From boundary of the village to the boundary of village Semra.	West—Zemindari land. East—Railway A class land. North—Boundary of village Semra. South— Ditto of the village.
60	Ditto	Ditto	107	East	.....	1 3 23	.....	... ..	Ditto ditto ...	West—Railway A class land. East—Zemindari land. North—Boundary of village Semra. South— Ditto of the village.
61	Ditto ...	Barubroopia	115	West	.....	0 2 25	.....	.....	From boundary of the village to the commencement of lot No. 63.	West—Zemmdari land. East—Railway A class land. North—Lot No 63. South—Boundary of the village.

62	Ditto ...	Ditto	115	East	....	0 1 39	...	....	From boundary of the village to the commencement of lot No. 64.	West—Railway A class land East—Zemindari land. North—Lot No. 64. South—Boundary of the village.
63	Ditto ...	Ditto	116	West ..	.....	1 0 22	.	... .	From lot No. 61 to the commencement of the zemindari land.	West—Zemindari land. East—Railway A class land. North—Zemindari land. South—Lot No. 61
64	Ditto ...	Ditto	116	East	....	1 3 36	. ..	..	From lot No. 62 to the village boundary.	West—Railway A class land. East—Zemindari land. North—Boundary of village Bahoearwa. South—Lot No 62.
65	Ditto ...	Shampore	120	West	.....	1 0 21	.....	....	From the village boundary to the boundary of village Barthoonia.	West—Zemindari land. East—Railway A class land. North—Boundary of village Barthoonia. South—Village boundary.
66	Ditto ...	Ditto	120	East	. ...	1 0 9	.. .	.. ..	Ditto ditto ..	West—Railway A class land. East—Zemindari land North—Boundary of village Barthoonia. South—Village boundary.
67	Ditto ...	Majhawlia	122	West	... ..	0 3 17	.	.....	From the village boundary to the commencement of lot No. 68.	West—Zemindari land. East—Railway A class land. North—Lot No 68. South—Village boundary.
68	Ditto ...	Ditto	123	Do.	.....	0 2 12½	.....	... .	From lot No. 67 to the commencement of lot No. 69.	West—Zemindari land. East—Railway A class land. North—Lot No. 69. South—Lot No 67.
69	Ditto ...	Ditto	123	Do.	... ..	1 1 21½	. ..	.....	From lot No. 68 to the commencement of lot No 70.	West—Zemindari land. East—Railway A class land. North—Lot No 70. South—Lot No. 86.
70	Ditto ...	Shampore	123	Do.	.....	0 1 20	.....	. ..	From lot No 69 to the boundary of village Mahuddinpore.	West—Zemindari land East—Railway A class land. North—Boundary of the village Mahuddinpore.
71	Ditto ...	Ditto	123	East	.....	0 0 18	... .	.....	From zemindari land in the west to the zemindari land in the east.	South—Lot No. 69. West—Railway A class land. East—Zemindari land. North— Ditto. South— Ditto.

Chumparun Collectorate, Motiharee, the 28th February 1890.

A W B. POWER, Offg. Collector.

NOTICE is hereby given, under sections 6 and 18, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Shahabad will be put up to public and unreserved sale at the Collector's Office of that district on the 26th day of March 1890 for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9	10
Serial No.	Towji No.	Name of mehal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of the proprietors of the property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1	62	Bokharapur, pergunnah Arrah.	Rs. A. P. 2,666 0 8	.....	6a. 11p. 11k. 2m. 4d.	Baboo Raghunandan Prasad Pande and others.	Rs. A. P. 1,100 8 1½	Rs. A. P.	Rs. A. P. 19 15 10½
2	122	Gyanpur, pergunnah Arrah.	1,706 10 8	.....	8a.	Raghunandan Prasad Pande.	853 5 4	.....	133 5 4
						Radho Madho Prasad Pande.	853 5 4	.....	133 5 4
3	852	Pakri Tappa Kuderia, pergunnah Arrah.	2,205 9 7	.....	A. P. E. M. Pakri Chanda Chanderbhanpur 2 0 7 4 Baghipankar ... 2 8 0 0 Rampore ... 2 8 0 0 Pakri Chanda Chanderbhanpur 3 2 8 0 Baghipankar ... 2 8 0 0 Rampore ... ... 2 8 0 0 Pakri Chanda Chanderbhanpur 1 11 0 10 Baghipankar ... 7 4 0 0 Rampore 10 0 0 0	Ram Agyan Misir ...	306 15 10	.....	17 15 10
						Mahadeo Misir ...	418 15 10	.....	8 6 2
						Gopal Saran Misir and others.	647 11 10	.....	14 15 6
4	632	Salempore Parsa, pergunnah Arrah	4,000 0 0	Whole	.....	Baboo Bai Nath Sahai.	.....	1,000 0 0	.....
5	771	Toufir Kotwa Rampore, pergunnah Barahgawan.	1,080 0 0	.....	18a.	Jharroo Pande and others.	877 8 0	.....	14 7 8
6	1201	Bhadwar, pergunnah Bhojepur.	534 6 5	.....	Re. Baradhi .. .. 1 Koodie ... ... 1 Itoundha ... ... 1 A. P. K. M. D. B. U-ara ... 12 5 0 15 5 0 Chooramanpur 10 2 8 0 0 0 Bhadwar .. 12 1 12 0 0 0 Ramdiha ... 10 2 8 0 0 0	Hardyal Singh and others.	460 7 1½	.....	19 8 11
7	1366	Karsand, pergunnah Bhojepur.	1,078 10 8	.....	Samaser .. 5 6 17 0 0 0 Nonfer ... 5 6 17 0 0 0 Belwandia ... 14 6 4 8 13½ 0 Barsdih 13 8 5 2 13 9 Parwandpore 7 4 17 15 8½ 0 Karsandkhas 7 4 10 2 7 14 Padaria ... 16 0 0 0 0 0 Sawaie ... 10 8 0 0 0 0 Katalpore ... 8 0 0 0 0 0	Sham Charan Singh and others.	5 9 1½	.. ...	1 10 0
						Moom Singh and others.	778 8 1½	.....	263 8 0½
							4		
8	1719	Indour Patti Girdharisingh, pergunnah Chowsa.	584 5 7	Whole	.....	Isri Rai and others ..	.....	1 1 0	.....
9	1720	Indour Patti Jia Singh, pergunnah Chowsa.	1,330 3 3	.....	Indour, 7a. 8p. 8k.	Oograh Rai and others	431 12 1	.....	100 5 7
10	2056	Tiwai, pergunnah Chowsa.	502 5 3 Mall 5a. mettarpha.	.....	7a. 9p. 10k.	Bhairo Rai and others	244 9 11½ mall	.....	61 4 4½
11	2080	Aurara Bheribhoosar, pergunnah Chainpur.	592 14 11½	Whole	.....	Sooraj Narain Singh and others.	.....	157 0 0	.....
12	2173	Bahera Kalan, pergunnah Chainpur.	508 12 10	.....	6a.	Ram Lal Rai and others.	190 12 9½	.....	35 8 2½
13	2329	Darouli, pergunnah Chainpur.	2,344 8 6	.....	Darouli 1a. ; Bishunpura *alias* Datiaon 2a.	Bhagwati Singh ...	197 7 5½	.....	41 1 10
14	2332	Darwan Surat, pergunnah Chainpur.	1,060 10 8	.....	4a.	Girdhari Rai and others.	266 10 8	.....	83 5 11½
15	2341	Damodarpore, pergunnah Chainpur.	723 3 2	Whole	3a 2p.	Allar Rai and others ...	211 1 9½	.....	9 7 7½
						Bhola Nath Singh and others.	...	58 4 1	.....
16	2356	Dandwa, pergunnah Chainpur.	834 10 9½	.....	5a. 4p.	Bali Ram Singh and others.	208 2 6½	.....	10 8 11½
17	2357	Daudkhili Mobarukpore, pergunnah Chainpur.	739 2 1	Whole	.....	Baboo Mahip Narain Singh and others.	.....	62 2 8	.....
18	2519	Hemrajpore, pergunnah Chainpur.	608 0 0	Do.	.....	Radha Mohun Pershad Pande and others.	... ..	190 0 0	.....
19	2544	Isri, pergunnah Chainpur.	560 0 0	.....	15a.	Ram Lal Singh and others	..	33 4 3	.. .
20	2560	Jigna Ghoordewa, pergunnah Chainpur.	763 11 9	Whole	.....	Ajodhya Singh and others.	.....	93 12 4	.
21	2626	Karwandia, pergunnah Chainpur.	1,556 15 6	.....	Rs A P. K. M. D. Rajhi ... ... 0 4 0 0 0 0 Pathra ... ... 0 4 0 0 0 0 Rajhi ... ... 0 4 0 0 0 0 Pathra .. 0 2 0 0 0 0 Hemrajpore with Sooraipoorapiperia. 0 8 0 0 0 0 Kasha Kayari .. 0 4 0 0 0 0 Korie Chowbe ... 0 8 0 0 0 0 Lecha . ... 0 2 5 6 13 5 Patedhi ... ... 0 4 8 0 0 0 Karwandia .. 0 4 0 0 0 0 Patti Chetha ... 0 8 0 0 0 0 Pathra ... 0 1 0 0 0 0 Kasha Chainpur ... 0 8 0 0 0 0 Sirai ... ... 0 8 0 0 0 0 Mohamadpur .. 0 8 0 0 0 0 Chandla .. ... 0 8 0 0 0 0 Sarae Maidah ... 0 8 0 0 0 0 Sohra Jairampur .. 0 8 0 0 0 0 Noura ... ... 0 5 0 0 0 0 Ojhkirad ... ... 0 8 0 0 0 0 Kekda .. ... 1 0 0 0 0 0 Rampore ... ... 1 0 0 0 0 0 Jodharpur ... 1 0 0 0 0 0 Pattgenesh . 1 0 0 0 0	Mussamut Bhinika Kunari.	20 10 8	.....	6 12 6
						Kunj Behari Singh and others.	83 5 4	.....	44 15 10
						Hoormatali and others.	362 13 1	... ..	406 8 7½

1	2		4	5	6	7	8	9	10
Serial No.	Touji No.	Name of mahal with pergunnah.	Sudder jumma of the whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of the property to be sold.	If only a share is to be sold the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
			Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
22	2633	Kalyanpur, pergunnah Chainpur.	533 5 4	Whole	.....	Deo Narain Singh and others.		133 5 4	...
23	2774	Masondha, pergunnah Chainpur.	680 4 11	Do. ...	.....	Rai Krishna Singh and others.	.....	42 8 7	... ..
24	2795	Mahoola, pergunnah Chainpur.	427 11 9	.....	Rs. A. P. K. M. Padri ... 0 1 0 0 0 Dighi ... 0 1 0 0 0 Mahoola . 0 8 9 12 0 Nakhtawal .. 0 6 9 12 0 Tigna .. 1 0 0 0 0 Sodea 1 0 0 0 0	Ram Augrah Singh and others.	194 12 9½	.. ...	18 14 8
25	2878	Nacosan Jhouti, pergunnah Chainpur.	814 14 11	Whole ...	.....	Gopal Saran Singh and others.	.....	12 8 4	.....
26	2938	Pandepur, pergunnah Chainpur	535 3 11	.....	Asoura ... .. 0 2 8 0 0 Do ... ... 0 11 4 0 0 Machanhat . 0 8 7 19 1 Machanhat ... 0 2 4 0 10 Pandepur ... 1 0 0 0 0	Dewan Rai and others Bakari Singh and others. Gya Narain and others Sheo Saran Singh and others.	60 3 1½ 258 13 2 69 8 6 43 1 8½	. ...	1 12 10 27 7 9 5 4 5½ 7 12 5
27	2944	Parsari, pergunnah Chainpur.	1,527 7 6	Whole ...	....	Baboo Radha Mohun Pershad Pande.	.....	477 5 5	
28	2953	Poosouli, pergunnah Chainpur.	560 0 0	..	10a. ... ... 2a. ... ... 3a.	Ram Tatan Singh and others. Manbooh Rai ... ... Bulwant Chobe	380 0 0 70 0 0 105 0 0	....	35 13 6 36 2 0 59 2 10
29	3043	Sanwath, pergunnah Chainpur.	598 6 5	Whole ..	..... .	Bhola Nath Singh and others	. ....	577 5 11	.....
30	3076	Sodhi, pergunnah Chainpur	1,636 4 3	... ..	Sodhi ... ... Re. 1	Sinnand and others ..	1,006 6 5	.....	56 6 0
31	3087	Shewaka Narhan, pergunnah Chainpur	2,123 4 3	.....	8a.	Baboo Bishoonath Singh and others.	1,006 2 1½	.....	569 8 6½
32	3639	Khadaon, pergunnah Dinara.	986 10 8	...	Khadaon Khurd and Kalan, Dhanchooan and Bhanjandihra, 11a. 2p. 8k.	Doodhnath Thakoor and others.	690 10 4	..	68 2 7
33	3699	Bajarya, pergunnah Nanor.	950 0 0	Whole	.....	Ramnarain Singh and others.	. ..	14 4 9	... ..
34	3769	Kowlodihri, pergunnah Nanor.	752 9 8	D ...	... .	Sheo Ghoolam Singh and others.	.....	123 11 2	...
35	3913	Mirzapur Atpa pergunnah Nanor	545 0 0	.. ...	8a.	Lachmi Narain, and others.	322 8 0	.....	60 0 0
36	4294	Dauroa, pergunnah Piro.	900 0 0	Whole ..	.....	Agha Sultan Tafazzul Hossein.	.....	169 0 0	.....
37	5540	Laheri, pergunnah Sasseram.	1,259 11 9	Do. ...	..... Re.	Baboo Sheo Lochan Singh.	.....	86 10 10	...
38	5633	Mahoeari Saraiotha, pergunnah Sasseram.	633 2 2	.....	Mahoeari ... ... 1 Parasea 1	Bibi Fatma and others	331 11 9½	.....	2 14 9½
39	6739	Bhaboa, pergunnah Chainpur	614 8 7	Whole ...	.. .	Choudhri Ram Saran Singh and others.	... .	161 6 10	... .

Shahabad Collectorate, dated Arrah, the 1st March 1890. F. R. S. COLLIER, Collector.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Koonjo Behary Banerjea and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 2/3, Dhobadi ..	Khulna, Paikgatcha	Bighas, 8,400 In two blocks of bighas 4,200 each.	*North.*—By the Dhobadi and Arnachorra khals *East.*—By the Chorra Bajna khal. *South.*—By the Chorra Bajna khal and Bhuddar river. *West.*—By the Bhuddar river As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office; Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Shuroop Chunder Shamunta, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 111, first portion.	24-Pergunnahs, Diamond Harbour, Sultanpur.	Bighas, 5,000	*North.*—By the Ghobatee or Kalinagunee Gang. *East.*—By an imaginary line drawn from a point on the banks of the Ghobatee or Kalinagunee Gang to a point on the banks of a khal rising from the Ghepotty khal or creek *South.*—By the khal rising from the Ghepotty khal or creek and the Ghepotty khal or creek. *West.*—By the Ghepotty khal or creek. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr's Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Moti Lall Chatterjee, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B.S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 323, West Bajoos.	Khulna, Paikgatcha ...	Bighas, 4,000	*North*—By the Arna Dacopi and Bajna khals. *East*—By the Bajna khal and an imaginary line drawn from the mouth of Kocha Dohniya to the mouth of the Arna Chorra khal. *South*—By the Arna Chorra khal and an imaginary line drawn from the mouth of the Arna Chorra khal to the mouth of the Kocha Dhaniya. *West*—By the Arna Dacopi and Arna Chorra khals. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Behari Lall Soor, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B S.), at the Sunderbuns, Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands, dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable :—

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 135, second portion.	24-Pergunnahs, Bussirhat, Hossainabad.	Bighas, 4,000	*North*—By the Hutta Khali. *East*—By the Suk Dooniya, Gabbuniya khal and an imaginary line drawn from a point on the banks of the Suk Dooniya to a point on the banks of the Gabbuniya khal. *South*—By the Bidha river and Gabbuniya khal. *West*—By the Hutta Khali. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE UNDER RULE 17, SECTION II, PART I.

NOTICE is hereby given that the lease of the land specified in the schedule hereunto annexed, and of which the plan is open to inspection at the Office of the Commissioner of the Sunderbuns, has been applied for by Ram Pran Chuckerbutty and others, and will be sold at 12 o'clock noon on the 7th July 1890, Monday (the 24th Assar 1297 B. S.), at the Sunderbuns Commissioner's Office at Alipore, unless meantime the sale is stopped or postponed in consequence of claims or objections under Act XXIII of 1863 (to provide for the adjudication of claims to waste lands) or owing to any other cause.

2. The lease of the land will be granted subject to the conditions which are specified below, as well as to the general terms annexed to the rules for the sale of leases of waste lands dated 12th November 1879.

CONDITIONS.

That the lands shall be subject to all existing rights of way and water and other easements.

That the right of using all streams and channels in any way navigable shall be reserved to the public, as also the use of a tow-path not less than 25 feet in width on each side of every such stream and channel.

That no charge will be made for wood and timber standing on the land at the time it is leased, nor for any wood which may be cut and burnt to effect clearances or which may be used on the land. But for wood and timber exported for sale, a duty shall be levied at such rate and in such manner as may from time to time be prescribed by Government.

That the Government reserves to itself the right to all minerals in the land, together with such rights of way and reasonable facilities as may be requisite for working, getting and carrying away such minerals. It also retains its proprietary right in the land, and only confers on the lessee an occupancy right which shall be hereditary and transferable.

Schedule.

Number of lot.	District, sub-division, thana.	Area.	Boundaries.	REMARKS.
Lot No. 223, South Dacopi.	Khulna, Paikgatcha..	Bighas, 6,000	*North*—By the Dacopi and Arnachorra khals. *East*—By the Arnachorra and Dhobadi khals. *South*—Dhobadi khal. *West*—by the Bhuddar river. As shown in Sunderbun Commissioner Mr. Ellison's map of season 1889-90.	

J. ELLISON, Commissioner, Sunderbuns.

Sunderbun Commr.'s Office, Camp Fooljhoori, the 6th March 1890.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates, or shares of estates, in the district of Chittagong, will be put up for sale at the Collector's Office of that district on the 28th April 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs A P.				Rs A P.	Rs A P	Rs A P.
				Permanently-settled estates of the first class.				
	Thanas Rauzan and Town—							
2 / 2	Taraf Ajodhya Ram, Fattesbad	733 13 0	The whole estate is to be sold.	...	Pran Krishna Das, Ram Shetak Das and others.	.....	155 13 8	..
	Thana Zorwargunge—							
10 / 35	Taraf Ashraff Akbar ...	694 1 3	A share will be sold	Share No 8 of the remaining proprietor	Trilochan Chowdry	82 14 1	....	37 8 2
	Thanas Fattickcherry, Hathazaree, Patia, Rauzan Town and Zorwargunge.							
28 / 84	Taraf Anandee Ram Kanoongoe	849 6 9	Ditto ..	Share No 5 of Raj Chandra Roy.	Purna Thakuranee, self and on behalf of Raj Manee and Bhoirab Chandra Das and others	72 8 11	.....	8 10 2
	Thana Fattickcherry—							
37 / 64	Taraf Anandee Manoolla	1,160 0 3	The whole estate is to be sold.	.....	Nemai Charan Nandi and Srimatee Guna Seela	...	151 2 0	.. .
	Thana Rauzan—							
83 / 391	Taraf Basanta Ram, Fattesbad.	357 14 3	The whole estate is to be sold.	.. ..	Anando Mohan Dey and Samad Ali and others	.....	44 1 0	.....
159 / 805	Taraf Durlav Ram, Fattesbad.	819 0 0	Ditto ...	.....	Ishan Chandra Shaha.	.....	124 12 9	.....
	Thanas Fattickcherry, Zorargunge, Rauzan, Patia Town, and Satkania—							
217 / 1100	Taraf Gouri Sanker Kanoongoe.	1,232 3 3	A share is to be sold.	Share No. 1, owned by Gour Chander Datta.	Gour Chander Datta	34 8 0	..	23 12 3
	Thanas Rauzan and Bhatiari—							
246 / 1259	Taraf Jusmant singh ...	1,396 10 2	The whole estate is to be sold.	.. ..	Ajeerah Chowdry, Nazmat Ali and others	..	107 15 3	... .
	Thanas Fattickcherry, Hathazaree, Patia Satkania Town and Nazmat—							
267 / 1363	Taraf Juburdust Khan ...	6,538 4 1	A share will be sold.	Share No. 1 of Fazal Ahmed and others, and No. 3 of the remaining proprietor.	Fazal Ahmed and others proprietors of share No. 1.	2,043 14 3	.....	936 2 0
					Sasty Charan Nandi proprietor of the remaining share No. 3.	890 12 9	.. ..	516 7 2
	Thanas Patia and Satkania—							
286 / 1409	Taraf Kamar Kullee ...	1,015 13 0	A share will be sold.	Share No 7 of Khoreshedali.	Khoreshedali	121 3 10	.....	3 12 6
	Thanas Hathazaree, Patia, Rauzan Town, and Satkania—							
293 / 1512	Taraf Krishna Kishore Kanoongoe.	665 6 7	Ditto	Share No 1 of Fazal Ahamad and others.	Fazal Ahmed Bajal Samad and Srimatee Tajannissa, Safaitanni-sa and Ekramuddin.	324 13 6	.....	237 10 2
	Thana Rauzan—							
305 / 1552	Taraf Canouse Fernandes	1,620 5 3	The whole estate is to be sold.	.....	Girish Chandra Rakhit and Guru Das Rakhit.	..	763 4 0	
	Thana Hathazaree—							
288 / 1385	Taraf Mahamed Rafee Khansama.	630 13 0	Ditto ...	.....	Jugal Kishore Chowdry, Ganga Das Chowdry and others.	..	280 3 2	... ..
	Thana Zorwargunge—							
487 / 2201	Kismut Nasiruddin Ahmed, babout taraf Hossen Ooli.	1,227 6 0	Ditto ...	.....	Shekh Olee Ahmed Chowdry.	.....	555 3 0	... .
	Thanas Patia Rauzan, Town and Satkania—							
477 / 2413	Kismat Prabhatatee baboit taraf Trylock Chunder.	746 6 3	A share is to be sold	Share No. 2 of the remaining proprietors.	Chandra Kanta Pal, Nakuleshwar Pal and others.	696 5 0	.....	21 3 6
	Thanas Fattickcherry Hathazaree, Patia Town, and Rauzan—							
481 / 2434	Taraf Pran Ballav ...	944 5 5	Ditto ...	Share No. 1 of Renooka.	Srimatee Brajeshwari, on behalf of the minor sons Harada Prasanna and Jamineo Rauzan.	236 1 4	...	106 12 11
	Thana Rauzan—							
511 / 2534	Taraf Raghab Jagadish ...	515 0 3	Ditto ..	Share No. 13 of the remaining proprietors.	Gangadas and Brajo Mohan Chowdry and others.	114 2 7	... ...	43 3 7

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah	Sudder jumma of the whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P				Rs. A. P	Rs A. P	Rs A. P.
561 2567	Thana Rauzan— Taraf Raj Jugal Krishna, Nanda Kishore Nundi.	573 11 9	The entire estate is to be sold.		Nimai Charan Nandee, Prasanna Kumar and others.	.....	36 2 3	. ...
564 2860	Thanas Chakaria, Fatticheherry Hathazaree Zorargunge Rauzan, Satkania and Patia— Taraf Shambhoo Ram Kanoongoe.	4,224 9 0	A share is to be sold.	Share No. 6 of Brajeshwari.	Srimatee Brajeshwari.	606 3 6	... .	273 10 6
569 2929	Thanas Patia and Town— Taraf Sachi Roshan	752 11 0	Ditto	Share No. 3 of Abdul Hamid	Shaheb Mea ..	82 5 4	.....	36 14 1
4	Thanas Boalsari, Hathazaree, Zorargunge Patia, Rauzan, Town and satkania— Taraf Sachi Ram Kanoongoe	826 12 9	Ditto ..	Share No. 14 of Ajgarali and others; No. 33 of Maneer Ahamed.	Ajgarali, Jeabul Hoseen and Amir Hoseen, proprietors of share No 14 Maneer Ahmed, proprietor of share No. 33.	4 12 4 55 2 9	... ..	1 9 3 9 9 3
606 3115	Thana Chaakria— Taraf Sher Masta Khan ..	527 6 6	Ditto .	Share No 1 of Fazal Ahmed and others.	Fazal Ahamad Bazal Ahmad, Tajunnissa, Safatannissa and Ekramuddin.	165 10 9	..	75 8 10
635 3880	Thanas Bhatiari, Zorargunge and Hathazaree— Taraf Obedullah Sheikh, Mahomed Ocee, Mahomed Ali.	673 7 0	Ditto	Share No. 2 of the remaining proprietors.	Sheikh Mahamed Asanullah Chowdry, Roonmula Chowdry and others.	511 7 8	.....	225 4 9
636 3935	Thanas Fatticheherry, Hathazaree, Rauzan, Town and Satkania— Taraf Radha Madhab	1,810 0 4	Ditto ...	Share No. 4 of Rajeshwari.	Balakdas Mohanta, on behalf of Radha Madhab Thakoor.	380 2 3	.....	49 6 4

N.B.—The amounts in columns 8 and 9 represent arrears, the latest day for payment of which was 26th December 1889

Chittagong Collectorate, the 8th March 1890. C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, and section 11 of Act VII of 1868, that the undermentioned mehals and tenures borne in the towji of the district of Noakholly will be put up to public and unreserved sale at the Collector's office of that district, on Wednesday, the 26th March 1890, corresponding with 14th Choitra 1296 B S, for arrears of revenue and other demands like revenue recoverable under the law in force due for kist 12th January 1890.

1	2	3	4	5	6	7	8	9
Towji No.	Name of pergunnah, mehal and tenure.	Sudder jumma of entire estate or tenure.	Whether the whole estate to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
1661	No. 14, Gayer makarari mouzi (temporary) howla Abdul Rahaman in chur Shulukya, *alias* Sunya, chur pergunnah Bhoola	Rs A. P. 563 15 11	Whole ...	.....	Wasuddin Maghi ...	Rs A. P. ...	Rs A. P 241 11 6	Rs. A. P. .....
1662	No 13, Gayer makarari mouzi (temporary) howla Amatullah, Shubal Chandra Guha in chur Magdhara, pergunnah Sundip	708 14 7	Do. ...	.....	Uma Charan Guha	.....	26 9 0	....
1671	No. 1, Mudafat Mohammed Manwar, Mohammed Kalim, Akramaddin, Gayer makarar mouzi (temporary) abadkari howla Anwaruddin, Kali Das, Modan Nath in chur Gazi, pergunnah Jaxira.	1,849 5 9	Do. ...	.....	Isapali Maghi ...	.....	670 4 6	.....
1671	Mudafat Mohammed Manwar Mohammed Kalim, Akramaddin, No. 3, Gayer makarari mouzi howla Mohammed Manwar, Mohammed Kalim, Akramaddin, in chur Gazi, pergunnah Jaxira	1,383 9 0	Do. ..	... ..	Srimati Halimennessa Chowdhurany.	.....	519 10 6	... ..
1671	No. 45, Gayer makarari mouzi howla Saifuddin, Kalimuddin, Rim Gazi, Kachria No. 279 Dashal in chur Gazi, pergunnah Jaxira.	555 9 7	Do.	.....	Asimaddin Patwari, Amurzan Bibi, mother and guardian of Amun ish and Motiul, minors, Chuny, Moti Mah, Kachim	....	102 2 1	... ..

Karimunnessa, Munsarali Samadali Shamsuddin, Umedali, Manoo Mush, Abdul Mah, Fazarally, Halimennessa, Kadirbaksh, Sabakah Ahmad, Aqib ddy Monharah.

Noakhally Collectorate, the 16th February 1890. C. R. MARRIOTT, Offg. Collector.

NOTICE is hereby given that the undermentioned plots of surplus railway lands no longer required by the Government, situated in the district of 24-Pergunnahs, Eastern Bengal Railway, near the Hooghly Jubilee Bridge, will be put up to sale at the Naihati Municipal Office, at noon, on Saturday, the 26th April 1890, corresponding with the 14th Bysak 1297 (B S)

The purchasers of these plots will be subject to the following conditions—

1*st*.—If the amount of purchase-money does not exceed Rs. 100, the whole amount to be paid down at once.

2*nd*.—If the amount of purchase-money exceeds Rs. 100, one fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale to be cancelled, the sum deposited being forfeited to Government, and the estate to be again put up for sale at the risk of the defaulting purchasers after issue of advertisement as in the case of original sale.

3*rd*.—The plots will be sold revenue-free to the highest bidders.

4*th*.—The purchasers shall be put in possession on receipt of the orders of the Commissioners confirming the sales, but such possession shall be liable to be disturbed in case the final sanction of the member of the Board of Revenue in charge shall not be accorded to the proceedings

1	2	3	4		5		6	7
Lot No.	Name of zillah.	Pergunnah and mouzah.	Approximate area of lot in bigahs and acres.		Land excluded from sale from each plot.		Boundary of lot.	Upset price of lot.
			B. K. C.	A. R. P.	Reason for exclusive.	A. R. P.		
1	24-Pergunnahs	Pergunnah Halishahar, mouzah Pershadnugur.	22 17 7	7 2 10	Made over to the Naihati Municipality for burning ghat shown as plot No. 4 on plan The area shown in column 4 is after exclusion in question.	0 0 27	*North*—Plot No. 2 as per plan. *South*—Baishnavpara Ghat Road. *East*—Strand Road. *West*—River Hooghly.	At Rs 30 per bigah.
2	Ditto ...	Ditto ...	17 7 0	5 2 38	....	...	*North*—By plot No. 3 *South*—By plot No. 1. *East*—Strand Road. *West*—River Hooghly.	Ditto.
3	Ditto ...	Ditto .	16 11 1	6 0 21	....	.....	*North*—Surpara Road *South*—Plot No. 2. *East*—Strand Road *West*—River Hooghly.	Ditto.
5	Ditto ...	Ditto ...	14 1 13	4 2 25	....	..	*North*—Plot No. 6 ... *South*—Land in the occupation of the railway. *East*—Strand Road. *West*—River Hooghly.	Ditto.
6	Ditto ...	Ditto ...	17 10 8	5 3 6	....	.....	*North*—Plot No. 7 ... *South*—Plot No. 5. *East*—Strand Road. *West*—River Hooghly.	At Rs. 40 per bigah
7	Ditto	Ditto ...	23 14 13	7 3 16	... .	...	*North*—Salvara Road *South*—Plot No. 6. *East*—Strand Road. *West*—River Hooghly.	At Rs. 60 per bigah.

C. W. BOLTON, Collector, 24-Pergunnahs.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below to the undermentioned estate, situate in the district of Bankoora, will be put up to sale at the Bankoora Collectorate on 28th April 1890, corresponding with 16th Bysack 1297 (B. S.)

The purchaser will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The estate to be sold to the highest bidder above the upset price, which will be fixed by the Collector at the time of sale. The purchaser of this estate will be considered as the proprietor of the estate, and the entire proprietary right of Government in such estate will be transferred to him, subject to the revenue fixed in perpetuity.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the law in force, and purchasers to be bound to respect the rights of resident cultivators who have signed the schedule of assessment prepared by the Revenue authorities.

3*rd*.—If the amount of purchase-money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or, if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government) and the estate to be again put up to sale at the risk of the defaulting purchaser, after issue of advertisement, as in the case of original sale.

5*th*.—There is one bigha of land situated in mouzah Mohishari, but appertaining to the estate Tiloori, for which a yearly rent of Re. 1 (one) is payable by Government to the Bengal Coal Company patnidars. The purchaser of the estate will therefore have to pay this rent annually to the patnidars.

Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.
		A. R. P. Sq. Rd Pr. Sq. In.	Rs. A. P.
1024	Tiloori, pergunnah Mohesarah	6 3 1 15 4 314	19 8 0

Bankoora Collectorate, the 14th March 1890. BHUBAN MOHON RAHA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Backergunge will be put up for sale at the Collector's Office of that district on the 26th March 1890, corresponding with 14th Choitra 1296 (B S.), for the kist ending 12th January 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale:—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Tuppeh Azimpur, hissa 8a. 19g	2,451 4 4½	.....	Joint share, 6a. 10g. 3k. 1½ 10	Asmat Ali Khan Choudhury and others.	917 7 6½	.....	6 10 10
1416	Taluq Bancha Ram Bosu, hissa 8a., pergunnah Bozergomedpur.	1,550 5 3	.....	3a. under separate account.	Dinabandhu Sen	290 5 10½	.....	45 6 4½
1487	Jiban Krishna Sen, Hari Krishna Sen, Komal Krishna Sen, Govindadeb Roy, Pran Manikya Chandra Roy, Durga Narayan Roy, and Mritunjaya Mukherjee taluq, pergunnah Bozergomedpur.	2,295 9 5½	.....	6a. 15½g. 1½k. Ijmali share.	Uma Charan Bhattacharjee and others.	978 13 0½		24 13 1
1546	Taluq Mohammad Hamza, pergunnah Bozergomedpur.	1,159 3 3	.....	8a. Ijmali share	Grish Chandra Mukhapadhyaya and others.	579 9 10	..	28 4 11
1578	Panioty Alexander taluq, pergunnah Bozergomedpur	4,853 13 0½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	606 3 2½	.....	113 3 11½
1188	Radha Krishna, Haraananda Roy, and Kshudas Siddhanta taluq, pergunnah Bozergomedpur	24,096 10 10	...	5a. 14½g 1½k. Ijmali share.	Brindabun Chandra Chakervarti and others.	874 11 7	7	43 15 1½
1628	Ramna Ramna Jear Mohammad Safi taluq pergunnah Bozergomedpur	19,487 10 8	.....	8a. 15½g. 19-15-6½-1. Ijmali share.	Golam Asad Choudhuri and others	10,676 12 1	.. ..	2,119 1 7
1638	Ram Raja Deo taluq, pergunnah Bozergomedpur.	2,062 2 11½	.....	2a. Ijmali share ...	Jagadiswari Debya ...	257 12 3½	.....	51 15 5½
1633	Ditto ditto ...	2,062 2 11½	.....	2a. under separate account.	Taramani Debya .	386 10 7	.....	78 6 2
1751	Radha Kanta Sen taluq, pergunnah Chandradwip.	906 10 8	.....	8a. Ijmali share	Kali Mohan Mohinta and others.	453 5 4	.....	2 13 6½
1764	Pergunnah Dakhin Shahabazpur, 3a. 1½g. 1k. share.	8,543 6 8	Whole estate.	.....	Mr Alexander Toma, executor of estate J. P. Wise and others.	... ..	5,338 10 8½	.....
1880	Haveli Selimabad tappah, hissa 10g	1,045 7 9½	.....	5a. 10g. Ijmali share	Bama Sundari Gupta and others	350 5 8½	.....	72 1 11½
1916	Ditto ditto	1,045 7 9½	..	6a. 15g. share under separate account.	Kailash Chandra Sen Majumdar and others.	441 1 8½	.. ...	59 13 0½
3835	Pergunnah Ratandi Kalikapur, hissa 8a.	3,154 11 8	.....	7a. 6½g. 2½ts. Ijmali share.	Umesh Chandra Roy Choudhuri and others.	1,446 14 5	... .	408 9 7
3887	Pergunnah Ratandi Kalikapur, hissa 4a.	6,309 6 10	.....	10g. Ijmali share ...	Jagadiswari Debya ...	197 2 6	...	67 5 5
3888 4546	Ditto ditto Padma *alias* Ramjanpur, pergunnah Kashempur Shapasti.	6,309 6 10 5,383 0 0	Whole estate.	6½g 2½ts. Ijmali share ..	Ditto Abinash Chandra Ghosh and others.	131 7 4	.. .. 421 • 8 9	43 15 11 ....
4580	Kukun Khan Dom, Domingo Mondal, DeSilva, Sreja Mohan Sen Durga Mohan Das, Musammat Krishna Mohini Dast talpq, pergunnah Bozergomedpur.	9,796 0 0	Ditto ...	.. ..	Jagadeswari Debya and others.	.....	For 1888-89 8,269 4 10, 1889, kist September 153 0 0, 1890, kist January 1,254 0 0	.....
4757	Madenpura Chur, pergunnah Ratandi Kalikapur.	1,139 0 0	Ditto ..	.....	Brindaban Chandra Chakervarti Roy Choudhuri and others	....	9 646 4 4 371 10 6	...
4897	Tiakhali, pergunnah Chandradwip	536 14 3	.. ...	10a. 8g. Ijmali share	Nistarini and others	342 0 4	.....	32 0 6
4897	Ditto ditto ...	533 14 3	.....	1a. 15g. share under separate account.	Tarini Charan Somoddar	38 6 4	.....	5 7. 6
5008	Chak Bargunia, Haola No. 16.	668 0 0	Haoladari right of the whole Haola.	...	Ramjan Haoladar and others.	.	167 0 0	.
5198	Ramdeb Datta taluq, mouzah Barkhipur, pergunnah Gopalpur Mirjanagar.	699 0 0	Whole estate.	..	Jearuddin Haoladar and others.	..	0 10 0	.. ..
5811	Kumaria Chur, hissa 13a. 18½g. 1k., pergunnah Uttar Shahabazpur	1,169 0 0	...	3a. 8g. 2k. 11½½, Ijmali share.	Durga Prosonna Roy and others.	258 5 0	..	178 0 1
5829	Chhota Lumchi Dhali Chur.	1,253 0 0	.....	3a. 8½g. 1k 20½kur. Ijmali share.	Mr. A. Toma, executor of estate of J P. Wise and others.	282 11 7	. ...	107 7 0
6449	Tappeh Sultanabad, hissa 7½g., Asimannessa Khatun and others.	843 1 4	Whole estate.	. ...	Moulvie Abdul Wazed and others.		5 10 4	..

Backergunge Collectorate, the 15th February 1890. PROMO GHUNDER GUPTA, Deputy Collector in charge.

NOTICE is hereby given, under sections 6 and 13 of Act XI of 1859, that the undermentioned estates or shares of estate in the district of Tipperah will be put up for sale at the Collector's office of that district on the 26th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale

1	2	3	4	5	6	7	8	9	10
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.	Remarks
		Rs. A. P.				Rs. A. P. K.	Rs. A. P.	Rs. A. P. K.	
26	Kismat 1a 6g 2c. 1k 4dt., pergunnah Bardakhat.	13,319 4 9	...	3a. 1½kara share.	Srimati Barni Bhanam and and others.	2,506 0 6 2½	..	1,137 1 7 5 due up to Agrahayan 1296 B S	Accounts are separated under section 10 of Act XI of 1859
26	Ditto ..	13,319 4 9	..	14a. 1kara 2 [illegible] kt share.	Nabin Chandra Das Roy and others.	599 9 2 14½	.	64 9 5 2 ditto.	Remaining portion that has not been separated.
36	Kismat 3a, pergunnah Choudhagano	1,360 0 6	....	4a share	Amrika Charan Lashker and others	340 0 0 17½	...	46 2 0 13½ ditto	Ditto ditto
236	Taluk Ramdhan Majumder, pergunnah Mohanurpur	1,189 13 10	.....	10a. 17g. 1kara 12t. share.	Alam Rajah *alias* Idilan gari Chowdry and others.	793 3 11 0	..	92 9 11 0 ditto	Ditto ditto.
265	Taluk Shahzadi Khanam, pergunnah Narayanpur	746 10 8	.....	3a 11g. 1kara 2dt. share.	Srimati Shafaneesa Bibi and others.	165 14 9 ½	...	0 5 0 0 ditto	Ditto ditto
372	Mouzah Ahamudpur, pergunnah Bardakhat	1,223 6 0	.....	5a 6g. 2kara 2kt	Ishan Chandra Roy	409 7 4 0		139 5 4 0 for kist November 1889	Ditto ditto
401	Jowar Bisarah, pergunnah Bardakhat.	3,141 8 0	.....	5a 6g. 2kara 2kt.	Ditto	1,047 1 0 0	.....	350 5 8 0 ditt	Ditto ditto
455	Jowar Kalai Gobindapur, pergunnah Bardakhat.	3,560 0 0	Whole	..	Golam Moula	...	119 0 0 for kist November 1889	.	....
1925	Chur Nagarer kandi, No 211, pergunnah Uttar Shahapur, resumed under Regulation 2 of 1819	1,206 10 9	Do.	.. ..	Dr. George Manook and others.		206 3 11 ditto.	.. ...	Property of individuals settled for 11 years from 1294 to 1304 B.S
1933	Mouzah Gangercot, pergunnah Bardakhat	895 0 0	Do.	.....	Braja Nath Roychowdry and others.	.....	76 14 5 ditto	...	Mesdi taluk settled for 17 years from 1288 to 1304 B S
1935	Jowar Tinchitta, pergunnah Bardakhat.	663 12 3	Do	.....	Durga Charan Das Majumder and others.	.....	210 5 3 ditto.	. .	Mesdi taluk settled for 18 years from 1287 to 1304 B S
1935	Mouzah Dalarah Chairpara, pergunnah Bardakhat	1,481 1 3	Do.	....	Kali Das Bhadra and others.	. ..	277 12 0 ditto.	..	Mesdi taluk settled for 14 years from 1291 to 1304 B.S
1938	Jowar Ghasullabad, pergunnah Bardakhat.	3,969 14 11	Do.	...	Kamalakanta Pedder and others.	.....	1,364 10 6 ditto.	... ..	Mesdi taluk settled for 13 years from 1292 to 1304 B S.
1933	Jowar Daulatpur, tappeh Kurikhai, pergunnah Bardakhat.	1,436 12 0	Do.	.. ..	Former owner—Ram Gopal Chakraborty and others. Auct on purchaser—Mohesh Chandra Chakravarti sale not yet confirmed.	....	493 14 0 ditto.	.....	Mesdi taluk settled for 30 years from 1261 to 1316 B.S

Tipperah Collectorate, the 15th February 1890. R. T. GREER, Offg. Collector.

NOTICE is hereby given, under section 6, Act XI of 1859, that the undermentioned mehal, borne in the towji of the district of Noakholly, will be put up to public and unreserved sale at the Collector's Office of that district on Wednesday, the 26th March 1890, corresponding with 14th Chaitra 1296 B S., for arrears of revenue recoverable under the law in force, due for kist 28th September 1889:—

1	2	3	4	5	6	7	8	9
Towji No	Name of pergunnah, mehal, and tenure	Sudder jumma of entire estate or tenure.	Whether the whole estate is to be sold or part thereof.	If only a share is to be sold, specification of such share or shares.	Names of proprietors or tenure-holders of property to be sold.	If only a share is to be sold, the sudder jumma of such share	If the whole estate is to be sold, the arrears due from it	If only a share is to be sold, the arrears due from it.
45	Kishmat Mohendra Narayan, pergunnah Chandeep	Rs A P 617 1 11	Whole	..	Chandra Mohan Sandy.	Rs. A P	Rs. A. P 109 7 5	Rs. A. P. .....

Noakholly Collectorate, the 16th February 1890. M. M. CHUCKERBUTTY, Dy. Collr., for Offg. Collr.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B.C.) of 1868, and Act II (B.C.) of 1871, that the undermentioned dependent tenures in the Satkanea Khas Mehal in the district of Chittagong will be put up to public and unreserved sale at the Collector's office of that district on the 26th day of March 1890 for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.

Mehal Noabad.

Serial No.	Nos. of tenures on Register No. 1.	Names of tenures and their situations.	Annual rental		The amount of arrears for which the tenures to be sold.			Remarks.
			Rent.	Cesses.	Rent.	Cesses.	Total.	
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	6 / 1823	*Thanna Satkanea, mouzah Napora.* Taluk Raj Kumar R y and Brojeshwari, baboit taluk Bisheshwari Naba Kumar, No. 541–468.	1,017 2 0	44 8 6	310 0 0	13 7 0	323 7 0	The entire taluks will be sold.
2	20 / 480	*Thanna Satkanea, mouzah Chambal.* Taluk Tajannissa Chowdhuranee ...	1,193 4 10	176 13 6	745 4 10	110 6 6	855 11 4	

C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Nuddea will be put up for sale at the Collector's office of that district on the 28th March 1890, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
425	Payerpore, pergunnah Futtehjungpore.	3,414 9 6		5a. 10g. 2k 17½til share, bearing No. 425-0.	Kala Chand Biswas and others	1,175 6 11	.....	1 5 3
				2nd Class Mehals.				
814	Char Bhabanandadyar, pergunnah Bhabanandadyar.	1,160 5 0	Whole estate.	.....	Messrs. Robert Watson and Co. and others.	.....	7,581 6 0	.....
815	Ditto ditto ...	1,160 5 0	Ditto ...	.....	Sreekrishna Bhowmik and others.	.....	3,077 14 2	.....

Nuddea Collectorate, the 15th February 1890. N. K. BOSE, Covtd. Deputy Collector in charge.

NOTICE is hereby given, under section 6, Act XI of 1859, section 11, Act VII (B. C.) of 1868, and Act II (B. C.) of 1871, that the undermentioned dependent tenures in the Cox's Bazar Khas Mahal, in the district of Chittagong, will be put up to public and unreserved sale at the Collector's Office of that district on the 28th day of April 1890, for arrears of rent and cesses remaining unpaid after the latest day of payment, the 26th day of December 1889.—

Number of tenures in Register No. 1.	Name of dependent tenure with its situation.	Annual rental		The amount of arrears for which tenure to be sold.			Remarks.
		Rent.	Cess.	Rent.	Cess.	Total.	
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
	Mahal Noabad, thana Teknaff, mouzah Teknaff.						
44-1361-3 / 6398.	Old taluk Thou Chowdry, *hal* taluk Srimati Thou Chowdry.	1,217 0 0	54 14 6	350 0 0	18 4 6	348 4 6	The entire taluks will be sold.
	Mahal Noabad, thana Chakaria, mouzah Lakhyarchar.						
261-335-324 / 34898.	Old taluk Mohan Lal Shukul, *hal* taluk Ishan Chandra Bakshi.	1,474 0 0	64 8 0	.....	21 8 0	21 8 0	
	Mahal Noabad, thana Chakaria, mouzah Bheola Manikchar.						
280 274 / 365	Taluk Bibi Isprak	757 10 0	96 7 0	189 0 0	32 2 0	221 2 0	
	Mahal Noabad, thana Teknaff, mouzah Dakhinkhila.						
556-1038	Taluk Srimati Khoamey Chowdrya, wife of Hrapoe Chowdry, Angajai and Keochai Chowdry of Dakhinkhila.	1,129 0 0	105 12 0	300 0 0	35 4 0	335 4 0	

Chittagong Collectorate, the 14th March 1890. C. P. CASPERSZ, Offg. Collector.

NOTICE is hereby given, under sections 6 and 13, Act XI of 1859, that the undermentioned estates or shares of estates in the district of Mozufferpore will be put up for sale at the Collector's Office of that district on 27th March 1890, corresponding 21st Chait 1297 Fash, for arrears of revenue and other demands, which, by the Regulations and Acts in force, are directed to be realized in the same manner as arrears of revenue due on the 13th January 1890.

When in columns 5, 7, and 9 of the appended statement it is stated that only a share is to be sold, a separate account is kept for such share, and the other share or shares in the estate are excluded from the sale :—

1	2	3	4	5	6	7	8	9
Towji No.	Name of mehal and pergunnah.	Sudder jumma of whole estate.	Whether the whole estate is to be sold.	If only a share is to be sold, specification of such share or shares.	Names of proprietors of property to be sold.	If only a share is to be sold, the sudder jumma of such share.	If the whole estate is to be sold, the arrears due from it.	If only a share is to be sold, the arrears due from it.
		Rs. A. P.				Rs. A. P.	Rs. A. P.	Rs. A. P.
201	Ibraheempoor, pergunnah Brail.	535 0 9	.....	12a. 5g. 1kr, 1k. .	Bansakhi Lall and others.	410 2 9	.....	61 4 0
207	Akhta, pergunnah Bahra Chumparun.	1,173 5 9		3a. 12g. 1c. 2k. 12r. ...	Babu Salookat Deo Narayan.	266 8 1	..	141 8 0½
221	Bazidpoor Dowlat, pergunnah ditto.	4,450 12 8	.....	8a 1g. 1k. 1d.	Rajcoomar Babu, Deo Nunden Singh and others	2,240 13 2	.....	113 8 6½
296	Chiknowtah, pergunnah ditto.	3,311 4 10	.....	6a, 1c. 1d. ..	Babu Shumbhoo Pershad, Chundika Pershad and others.	1,042 14 5	.....	449 8 11½
1099	Maksoodpoor Karriah, pergunnah ditto.	1,067 11 9	.....	7a. 5g.	Rajcoomar Babu, Deo Nunden Singh and others	483 13 1	..	25 1 9½
3494	Bidupoor, pergunnah Hajipoor.	1,707 3 3	The whole estate.		Ramkishun Panday	1,707 3 3	150 12 0	.....
3528	Joorawanpoor, pergunnah ditto.	719 10 7	.....	10g. 1c. 2k. 5r.	Harbuns Singh ...	37 7 3	...	6 0 3
3528	Ditto	719 10 7	.....	8g. 3c. 3r. ...	Deo Narayan Singh ...	19 11 0	. ...	3 7 5
3528	Ditto ...	719 10 7	...	19g 8c. 2k. 2d. 15r. ...	Patul Kuer	45 0 0	.....	4 11 11
3528	Ditto	717 10 7	.	2a. 14g. 1k 5r.	Upnet Narayan ...	131 10 3		17 3 3
3539	Mamarpoor, pergunnah ditto.	1,303 5 11	The whole estate.	.....	Bhagwat Narayan ...	1,303 5 11	295 1 4	.....
3402	Shariffpoor, pergunnah Nampoor	306 9 1	.....	8a. 6g. 2c. 2k.	Sher Bahadur Singh and others.	337 12 3	.....	20 14 5
9462	Erasee Nowberrar-Bungra, pergunnah Gudah Saad.	865 5 0		1a. 6g. 2c. 2k.	Mangul Pershad ...	73 3 3	.....	9 0 4
9462	Ditto	865 5 0	.....	2a. 13g. 1c. 1k. 1d. ...	Debi Dutt Singh ...	144 3 4	.....	8 0 4
9462	Ditto	865 5 0	...	5a. 6g 2c 1k. 2d.	Radha Pal Singh ...	286 7 0	. ..	0 1 4
9462	Ditto	865 5 0	.....	6a. 13g. 1c. 1k.	Braham Deo Narayan Singh.	360 0 3	..	30 0 3
3694	Raja Pakurchakia, Gurjowl, pergunnah Bisarah.	968 2 3	The whole estate	.....	Nawnidh Lall and others.	908 2 3	63 6 0	.....

Mozufferpore Collectorate, the 15th February 1890. E. B. HARRIS, Deputy Collector in charge.

NOTICE is hereby given that the proprietary right of Government, as specified in the conditions of sale below, to the undermentioned rent-free lands situate in the district of Pooree, declared an escheat to Government in their No. 2540—835L.R., dated 3rd July 1889, will be put to sale at the Pooree Collectorate on the 28th day of April 1890, corresponding with the 17th day of Baisack, 1297 Umli. The purchasers will be subject to the following conditions of sale :—

Conditions of Sale.

1*st*.—The rent-free lands to be sold to the highest bidder above the upset price which will be fixed by the Collector at the time of sale.

2*nd*.—The sale to be subject to existing leases and to the rights conferred by the settlement proceedings and by the laws in force, and purchasers to be bound to respect the rights of cultivators, if any.

3*rd*.—If the amount of purchase money do not exceed Rs. 100, the whole amount to be paid down at once.

4*th*.—If the amount of purchase-money exceed Rs. 100, one-fourth of the amount bid to be immediately deposited. If the balance be not paid by noon of the fifteenth day after the sale, reckoning the day of sale as one, or if that day be a close holiday, then by noon of the first succeeding office day, the sale is to be cancelled (the sum deposited being forfeited to Government) and the lands to be again put up to sale at the risk of the defaulting purchaser after issue of advertisement, as in the case of original sale.

Number in statement of Government estates	Number on the district roll.	Name of estate and pergunnah.	Approximate area in acres.	Government revenue assessed.	Upset price.
...	...	Rent-free lands situate in mouzah Pratapasan, pergunnah Kotedesh in estate Kotedesh, &c., (towji No. 44) held under General No. 38151, and measured in the name of Ram Das.	M. g. B. A. R. P. 4 11 13 3 3 30	.....	Rs. A. P. 118 8 0

Pooree Collectorate, the 14th March 1890. F W DUKE, Offg. Collector.

Statement of Government Promissory Notes enfaced for payment of Interest in London, under deduction of amount re-transferred to India, and outstanding in the Books of the Bank of Bengal on the 15th March 1890.

PARTICULARS.	3½ per cent. transfer loan of 1853-54.	4 PER CENT. LOANS.							4½ PER CENT. LOANS.				Transfer loan of 1879, seven shillings per cent. portion.	5 per cent. loan of 1856-57.	GRAND TOTAL.
		Of 1852-53.	Of 1835-36.	Of 1842-43.	Of 1854-55.	Transfer of 1865.	Reduced 4 per cent. loan of 1879.	Total.	Of 1870.	Of 1878.	Transfer loan of 1879 4½ per cent. portion.	Total			
Balance of 28th February 1890 ...	54,700	11,29,387	25,32,900	2,44,10,900	1,05,87,800	3,93,63,600	1,98,69,500	9,78,90,087	39,500	71,47,800	11,08,15,800	11,80,02,800	1,33,800	32,200	21,61,13,587
ADD—															
Amount of 4½ 1878 notes transferred to 4½ 1879 stock in London	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,63,000	1,63,000	.....	.....	1,63,000
ADD—															
Amount enfaced at Madras between 1st and 15th March 1890	.....	.....	.....	1,000	.....	2,000	.....	3,000	.....	.....	500	500	.....	.....	3,500
Amount enfaced at Bombay between 1st and 15th March 1890	.....	.....	.....	24,500	9,000	25,500	12,500	71,500	.....	3,000	.....	3,000	.....	.....	74,500
Amount enfaced at Calcutta between 1st and 15th March 1890	.....	.....	1,500	1,66,400	5,000	12,49,300	60,700	14,82,900	.....	.....	2,700	2,700	.....	.....	14,85,600
DEDUCT—	54,700	11,29,387	25,34,400	2,46,02,800	1,06,01,800	4,06,40,400	1,99,33,700	9,94,47,487	39,500	71,50,500	11,09,82,000	11,81,72,000	1,33,800	32,200	21,78,40,187
Amount written off in the London registers	.....	.....	.....	5,47,800	2,65,900	3,11,200	1,40,700	12,65,600	.....	1,63,000	1,85,100	3,48,100	.....	.....	16,13,700
Balance on 15th March 1890 ...	54,700	11,29,387	25,34,400	2,40,55,000	1,03,35,900	4,03,29,200	1,97,96,000	9,81,81,887	39,500	69,87,500	11,07,96,900	11,78,23,900	1,33,800	32,200	21,62,26,487

NOTE.—From 9th June 1867 to 15th Jan. 1890—Enfaced from India 6,189 lakhs; re-transferred from London 5,379 lakhs.

„	16th Jan. 1890	„	„	31st	„	„	„	„	3	„	3	„
„	1st Feb.	„	„	15th Feb.	„	„	„	„	1	„	5	„
„	16th	„	„	28th	„	„	„	„	5	„	8	„
„	1st Mar.	„	„	15th Mar.	„	„	„	„	15	„	14	„
									6,213		5,409	
									5,409			

Balance against India ... 804 lakhs.

PUBLIC DEBT OFFICE, BANK OF BENGAL,
Calcutta, the 17th March 1890.

(3674—1)

W. WESTLAND,
Offg. Secretary and Treasurer.

Commissioners for making Improvements in the Port of Calcutta.

NOTICE

UNDER SECTION 69 OF ACT V (B.C.) OF 1870.

THE following packages, landed at the Jetties from the undermentioned ships, have been removed to the Commissioners' Import Warehouse, where they remain at the risk and expense of the owners. If not cleared within two months from the date stated against each item, they will be sold under section 72 of the said Act :—

Date of removal to Import Warehouse.	Number, mark and description.	Consignees.	Ships.
1890.			
Mar. 11	10 Cases, C R	Order ...	S. S. "Baroda."
,, 11	3 Cases, J & N	Ditto ...	Ditto.
,, 11	1 Case 1538 in a block within a triangle, W H N below.	Ditto ...	Ditto.
,, 11	1 Bag, F M S or no mark	Ditto ...	Ditto.
,, 11	21 Bags, P J S in a diamond, or no mark ..	Ditto ...	Ditto.
,, 11	1 Truss, no mark	Ditto ...	S. S. "Clan Matheson."
,, 11	3 Casks, A B by Ganges	Ditto ..	Ditto.
,, 11	1 Case, C S W Co. by C	Ditto ...	Ditto.
,, 11	16 Crates, R A & Co.	Ditto ...	Ditto.
,, 11	1 Case, S C S & Co. in a cross, Madras below ...	Ditto ...	Ditto.
,, 11	1 Case, 2065 in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 11	2 Cases, 1805 in a triangle, S D & C below ...	Ditto ...	Ditto.
,, 11	3 Cases, 837 in a diamond, W N & Co., Madras below.	Ditto ...	Ditto.
,, 11	1 Cask, Y in a diamond, R M top	Ditto ...	Ditto.
,, 11	1 Case, F. A. Hughes, Esq., care of Finlay, Muir & Co.	Addressed ...	Ditto.
,, 11	54 Packages iron, I S R	Order ...	Ditto.
,, 11	49 Sleepers, D U K R	Ditto ...	Ditto.
,, 13	1 Case, 898 in a diamond, E P L top	Ditto ...	S. S. "Hochiemer."
,, 13	1 Case, H M	Ditto ..	Ditto.
,, 13	8 Cases, 159 in a diamond, N P & G outside ...	Ditto ...	Ditto.
,, 13	1 Case, 1538 in a block within a triangle, W H N below.	Ditto ...	Ditto.
,, 13	1 Case, 1243 in a block within a triangle, W H N below.	Ditto ...	Ditto.
,, 13	2 Parcels, F K	Ditto ...	Ditto.
,, 13	1 Bag, S P R	Ditto ...	Ditto.

Port Commrs.' Office, Calcutta, the 22nd March 1890. (3678—1) G. H. SIMMONS, Vice-Chairman.

Statement of the Affairs of the Bank of Bengal for the week ending 18th March 1890.

LIABILITIES.

	Rs.	A.	P.
Capital paid up	2,00,00,000	0	0
Reserve Fund	58,00,000	0	0
Public Deposits at Head Office ... ... Rs. 92,33,731 15 3 / Ditto ditto at Branches ,, 97,50,363 13 3	1,89,84,095	12	6
Other Deposits at Head Office and Branches	2,79,56,745	10	2
Bank Post Bills, &c.	4,99,523	8	2
Sundries	8,59,981	0	4
Rupees ...	7,41,00,345	15	2

ASSETS.

	Rs.	A.	P.
Government Securities	13,33,335	0	0
Other authorised Investments	59,05,106	0	0
Loans on Government and other authorised Securities	1,94,30,052	5	5
Accounts of credit on ditto ditto	1,20,88,863	10	6
Bills discounted and purchased	1,89,18,935	15	10
Balances with other Banks	7,21,106	0	10
Bullion	6,053	1	5
Dead Stock	12,09,097	8	0
Stamps	13,465	15	0
Sundries	3,01,286	1	6
	5,93,28,201	10	6
Cash and Currency Notes at Head Office ... Rs. 64,32,947 9 9 / Cash and Currency Notes at Branches ... ... , 83,39,196 10 11	1,47,72,144	4	8
Rupees ...	7,41,00,345	15	2

F. T LEWIS, Offg. Chief Accott.

Rate for Demand Loans 11 per cent.

Percentage 30·5.

By order of the Directors,
W. WESTLAND
Offg. Secy. and Treasurer

BANK OF BENGAL,
Calcutta, 20th March 1890.

(3675—1)

Oudh Forest Department.

BAHRAMGHAT DEPOT.

ON THE OUDH AND ROHILKHAND RAILWAY.

FROM this date the prices of sâl beams and scantlings supplied from this depôt will be as follows :—

BEAMS.—21 feet length, at Rs. 2-10 per cubic foot.
22 ,, ,, 2-12 ,,
23 ,, ,, 2-14 ,,
24 ,, ,, 3 ,,

Above the length given two annas per foot run will be charged. Any inches over the foot will be charged as a foot.

SCANTLINGS—From 12 to 20 feet, at Rs. 2-8 per c. ft.
Under 12 and over 7 ,, 2-4 ,,
Under 7 feet ,, 2 ,,

The above prices are for ordinary building purpose For *Planking Sleepers*, &c., special rates will be fixed by agreement.

The Department will still take orders for buildings all over at Rs. 2-4 per cubic foot, provided the scantlings are taken in fair proportion.

Second and Third Class Timber will be sold and price fixed by agreement.

Auction Sales will be held from time to time to clear off stock.

For further particulars apply to the Officer in charge.

By order of the Conservator of Forests, N. W. P. and Oudh, Oudh Circle.

KANHYA LAL,
Sub-Assistant Conservator of Forests,
Bahramghat Division

Barhamghat, the 1st April 1886.

Government Cinchona Febrifuge.

THIS preparation is an efficient substitute for Quinine, and can be purchased by Government officers for public and charitable purposes, and by any one taking *twenty pounds* at a time, from the Superintendent, Botanic Garden, Calcutta, *for cash only*, at the following rates—per four ounce tin, *Rs.* 3 *ans.* 14; per eight ounce tin, *Rs.* 7 *ans.* 4; per pound tin, *Rs* 14—The general public can be supplied by the Superintendent, Botanic Garden, *for cash only*, at the undernoted rates—per four ounce tin, *Rs.* 4 *ans.* 14; per eight ounce tin, *Rs.* 9 *ans.* 4; per pound tin, *Rs.* 17. *ans* 8 This medicine is also sold by the principal European and Native druggists in Calcutta. Postage four annas per 4 ounce tin, eight annas per 8 ounce tin, and twelve annas per pound tin, in addition to the foregoing rates.

Notification.

IT is hereby notified that under section 46 of the Local Self-Government Act III (B.C.) of 1885, the Dinagepur District Board have, at an adjourned meeting held on the 1st March 1890, determined to levy the road cess in this district, for the ensuing cess year 1890-91, at the maximum rate of one-half anna or six pies in the rupee on the annual value of lands.

SEEKANT MOOKERJEE, for Chairman.

Dinagepur, District Board's Office, the 3rd March 1890.

Notification.

IT is hereby notified for general information that, under section 46 of the Bengal Local Self-Government Act III (B.C.) of 1885, the District Board of Khoolna, by a resolution of their meeting of the 15th March 1890, have determined to levy road cess for the year 1890-91 at the full rate, *i e*, 2 pice per rupee on the annual value of lands, &c

K. D. GHOSE, Vice-Chairman, District Board.

Khoolna, the March 1890.

Notice

IS hereby given that the zemindari dâk tax in the district of Purneah for the year 1890-91 has been sanctioned by the Commissioner of Circuit, Bhagulpore Division, at the rate of twelve annas per cent.

The amount due for the first half-year is to be paid into the District Treasury on the 1st April 1890, and that for the second half-year on the 1st September 1890.

E. W. COLLIN, Officiating Magistrate.

Purneah Magistracy, the 10th March 1890.

Notification.

TO be peremptorily sold pursuant to a decree and order of the Calcutta High Court, Original Civil Jurisdiction, made in suit No. 46 of 1886 (wherein Mohendro Nath Bose is plaintiff and Shamaprosono Bose is defendant), and dated, respectively, the 22nd of March 1886 and the 29th of November 1889, by the Registrar of the said Court in his sale-room in the Court-house, on Saturday, the 19th of April next, at the hour of 12 o'clock at noon, the following property :—

No 17, Joogul Kissore Dass' Lane in Calcutta, being all that partly lower-roomed and partly upper-roomed brick-built house, and the piece of land appertaining thereunto and on part whereof the same is built, the area of which is 2 cottahs 9 chittacks and 21 square feet as per pottah, and which property is bounded on the north by a private lane; on the south by the dwelling-house of Missers ; on the east by the dwelling-house of the late Bhoobunmohun Mitter ; and on the west by Joogul Kissore Dass' Lane.

The abstract of title and conditions of sale may be seen at the Office of Mr. Richard Rutter at No. 10, Hastings Street in Calcutta, on any day before the sale, and will be produced at the sale

R. BELCHAMBERS, Registrar.

Richard Rutter, Plaintiff's Attorney.

Calcutta, High Court, Original Jurisdiction, the 4th March 1890. (3633—1)

NOTICE is hereby given that the dividend of 4½ per cent. on season 1889, declared at the General Meeting of the Debra Doon Tea Company, Limited, on 28th February 1890, will be payable on and after 15th proximo at Calcutta and Mussoorie, and in London at the current rate of exchange.

A. F. GIBSON, Secretary, Dehra Doon Tea Company, Limited.

Dehra Doon, N.-W. P., 17th March 1890. (3676—1)

The Dehing Company, "Limited."

THE Fourteenth Annual Ordinary General Meeting of the Shareholders in this Company will be held at the Registered Office, No. 4, Clive Street, on Saturday, the 29th day of March 1890, at noon, for the purpose of receiving the Directors' Report and for the consideration of such other business as may be brought forward.

JOHN ELLIOTT & Co., Managing Agents.

Calcutta, 15th March 1890. (3648—2)

Notice.

THE DEHING COMPANY, "LIMITED."

THE Transfer Register of this Company will be closed from 17th to 31st March 1890, inclusive.

JOHN ELLIOTT & Co., Managing Agents. (3649—2)

The Mothola Company, Limited.

THE Sixteenth Annual Ordinary General Meeting of the Shareholders in this Company will be held at the Registered Office, No. 4, Clive Street, on Saturday, the 29th day of March 1890, at 11-45 A M, for the purpose of receiving the Directors' Report, declaring a final dividend for season 1889, and for the consideration of such other business as may be brought forward.

JOHN ELLIOTT & Co., Managing Agents

Calcutta, the 15th March 1890. (3646—2)

NOTICE.

The Mothola Company, "Limited."

THE Transfer Register of this Company will be closed from 17th to 31st March 1890, inclusive.

JOHN ELLIOTT, & Co., Managing Agents. (3647—2)

Bengal Tea Company, "Limited."

THE Fifty-ninth Half-yearly General Meeting of Shareholders will be held at the Registered Office of the Company, No. 4, Clive Row, at noon, on Monday, the 31st instant, for the purpose of passing the Managing Agents' Report and the Accounts to 31st December last, and electing an Auditor.

The Transfer Books will be closed to 31st instant, inclusive.

JARDINE, SKINNER & Co., Managing Agents.

Calcutta, 19th March 1890. (3672—1)

Bishnath Tea Company, "Limited."

NOTICE is hereby given that the Fifty-third Half-yearly Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Monday, the 31st March 1890, at 11 o'clock A.M., for the purpose of receiving the Directors' Report, passing the accounts for the year ending 31st December 1889, and transacting such other business as may be brought before the Meeting.

The Transfer Books of the Company will be closed from the 18th to 31st instant, inclusive

By order of the Board,

WILLIAMSON, MAGOR & Co., Secretaries.

Calcutta, 18th March 1890. (3651—2)

East India Tea Company, "Limited."

NOTICE is hereby given that the Fifty-fifth Half-yearly Ordinary General Meeting of Shareholders of the above Company will be held at the Registered Office, No. 4, Mangoe Lane, Calcutta, on Monday, the 31st March 1890, at 1 o'clock P. M., for the purpose of receiving the Directors' Report, passing the accounts for the half-year ending 31st December 1889, declaring a dividend and transacting such other business as may be brought before the Meeting.

The Transfer Books of the Company will be closed from the 18th to 31st instant, inclusive.

By order of the Board,

WILLIAMSON, MAGOR, & Co., Secretaries.

CALCUTTA, the 18th March 1890. (3652—2)

NOTICE.

National Bank of India, "Limited."

THE Transfer Books of the Bank will be closed from 19th to 29th April 1890, both days inclusive.

By order of the Directors,

J. A. TOOMEY, Manager.

Calcutta, 22nd March 1890. (3679—1)

Notice.

Chapaguri Tea Company, Limited.

THE Share Transfer Books of the above Company will be closed from the 18th to 26th March, both days inclusive.

BEGG, DUNLOP & Co., Managing Agents.

Calcutta, the 14th March 1890. (3641—2)

The Kunchanpore Tea Company, "Limited."

NOTICE is hereby given, pursuant to section 186 of the Indian Companies Act, 1882, that a General Meeting of the Members of the abovenamed Company will be held on Wednesday, the 30th day of April 1890, at 11 o'clock in the forenoon, at No. 104, Clive Street, in the Town of Calcutta, in order that there may be laid before the said Company an account showing the manner in which the winding up has been conducted and the property of the Company has been disposed of, and in order that the said Company may hear any explanation that may be given by the Liquidator; and also in order that an extraordinary resolution may be passed for determining the manner in which the books, accounts, and documents of the said Company, and of the Liquidator, shall be disposed of.

Dated this 21st day of March 1890.

D. McL. MORRISON, Liquidator.

104, Clive Street, Calcutta. (3681—1)

NOTICE.

Amluckie Tea Company, "Limited."

THE Share Transfer Books of the above Company will be closed from 25th March to 2nd April, both days inclusive.

BEGG, DUNLOP & Co., Managing Agents.

Calcutta, 22nd March 1890 (3677—2)

In the matter of the Indian Company's Act VI of 1882 and of the Orissa Coasting Steam Navigation Company, Limited.

ALL creditors of the abovenamed Company, who have omitted to send in particulars of their respective claims, are required, on or before Tuesday, the 15th April next, to send in particulars of such claims to A. B. Miller, the Liquidator of the said Company, or if in default thereof they will be excluded from the benefit of any distribution of the assets of the Company

A. B. MILLER, Liquidator, Orissa Coasting Steam Navigation Company.

Calcutta, No. 8, Strand, the 14th March 1890.

(3636—2

Notice

IS hereby given that a Sub Overseer is required by the Mozufferpore District Board on a salary of Rs. 35 rising to Rs. 50, with travelling allowance as laid down in the Civil Service Regulations.

Applications accompanied by copies of testimonials will be received by the undersigned up to the 5th April 1890.

G. W. DISNEY, C.E., District Engineer.

Mozufferpore, the 15th March 1890. (3673—2)

Notice.

WANTED a Head Assistant in the Ward's Department of this Office on a salary of Rs. 150 a month from the 1st April 1890. Applications will be received by the undersigned up to the 28th instant. None need apply who has not had special experience of work in the Ward's Department.

P. K. DAS, Personal Assistant to Commissioner.

Burdwan Commr.'s Office, the 13th March 1890.

Notice.

WANTED a Sheristadar for the Court of the Maharajah of Sirgujah on Rs. 40 per mensem. Candidates must possess a knowledge of English, Hindi and Urdu, and have experience of Court business, Criminal and Civil. Applications will be received by the undersigned up to the 30th April next.

RAICHARAN GHOSH, Personal Assistant to Commissioner, Chota Nagpur.

Ranchi, the 21st March 1890.

Notice.

WANTED a third clerk in the Revenue Department of the Office of the Commissioner of Chota Nagpur on a salary of Rs 55 per mensem. The selected candidate will be appointed on probation for 4 months with every prospect of being made permanent. Preference will be given to a graduate of the Calcutta University, or to one who has experience in clerical work and is capable of précis-writing and drafting letters. Applications with copies of testimonials will be received by the undersigned up to the 15th proximo.

RAICHARAN GHOSH, Personal Assistant to Commissioner, Chota Nagpur.

Ranchi, the 21st March 1890.

Notice.

WANTED a second clerk for the Wards' Department of the Office of the Commissioner of Chota Nagpur on a salary of Rs. 45 per mensem with every prospect of being made permanent. Preference will be given to an under-graduate of the Calcutta University, or to one who has experience in clerical work and who is capable of précis-writing and drafting letters. The appointment will be on probation for 4 months. Applications with copies of testimonials will be received by the undersigned up to the 15th proximo.

RAICHARAN GHOSH, Personal Assistant to Commissioner, Chota Nagpur.

Ranchi, the 21st March 1890.

Wanted

AN Overseer for the Municipality of Chupra. Pay Rs. 30 per mensem, plus Rs. 10 horse allowance. A thorough knowledge of Hindi, English, and Elementary Engineering is required. Written applications with copies of certificates, if any, will be received up till the evening of the 25th March by J. A. Bourdillon, Esq., Chairman.

J. A. BOURDILLON, Chairman.

Chupra, 5th March 1890. (3631—2)

WANTED a passed Compounder for the Civil Engineering College, Seebpur. Salary Rs. 15 per mensem. Applications with testimonials to be sent to the Medical Officer of the College, up to 15th April next.

S. F. DOWNING, Principal, Civil Engineering College.

Seebpur, the 24th March 1890.

WANTED a Road Sarkar for the Terai Sub Road Cess Committee at Silliguri on Rs. 20 a month from 1st April 1890. Only candidates having a fair knowledge of English and some experience in road repairing and framing estimates should apply.

Applications to be received by the undersigned up to 31st March 1890.

A. EARLE, Vice-Chairman, Terai Sub-Road Cess Committee, Kurseong.

Dated 19th March 1890. (3683—1)

Notice.

CANDIDATES are invited for the post of the Municipal clerk and accountant for the Kandi Municipality. Pay Rs. 30. The eligible candidates should know surveying, levelling, estimating, account-keeping and drafting in English. Applications will be received up to 15th April 1890. The place is a healthy one.

S. C. DATTA, Chairman of the Kandi Municipality, District Moorshedabad

Dated Kandi, the 14th March 1890. (3684—3)

In the Court of the Subordinate Judge at Monghyr.

EXECUTION CASE No. 16 OF 1890.

Adia Nund Singh and others, decree-holders, *versus* Puchha Singh, judgment-debtor.

THE following properties of the judgment-debtor shall be sold by public auction by the Nazir of this Court on the 28th April 1890, at 12 noon :—

1. 1 gunda 7 cowrees 8 bowrees and 1 phowree of malkana and mustajri in taluqa Tarapur, pergunnah Monghyr, No. 1324 towji, and Rs. 11,038-4 sudder jama.

2. 4 gundas 3½ cowrees in taluqa Padham, asli and dakhli, pergunnah Monghyr, No. 414 towji, and Rs. 621-7 sudder jama

3. 1 gunda 16 bowrees in taluqa Sripur, asli and dakhli, pergunnah Bhusadi, No. 1078 towji, and Rs. 3,503-6 sudder jama.

4. 18 cowrees 10 bowrees in taluqa Durgapur, asli and dakhli, pergunnah Monghyr, No. 412 towji, and Rs. 688-9 sudder jama.

GRISH CHUNDER CHATTERJEE,
Subordinate Judge, Monghyr.
(3680—1)

Administrator General's Office.

NOTICE.

ADMITTED claims adjusted; the undermentioned estates are payable on Tuesday and Friday as usual.—

ESTATES.	Claims or dividend.	Rates of dividend per rupee.
Birley, H. M., Lieut., late in the Royal Artillery.	1st dividend ..	at ans. 8 5·50 pie.
Bunbury, H. F. Captain, late in the General List of Infantry.	2nd dividend ..	at ans. 5 3 pie.
* Dyson, C. L., late an Assistant Superintendent of Police at Jessore.	Claim in full.	
Vivian, J. H., Captain, late in Her Majesty's Forces, but late in the service of Rajah of Sirmore with district of Sindia.	1st dividend...	at ans. 3 0·50 pie.

N.B.—The surplus of the estate marked * is carried over to the account for the persons interested and no other claims against the estate can be admitted.

Persons presenting receipts for payment are requested at the same time to produce the registry certificates which have been granted to them from this office.

L. P. D. BROUGHTON,
Administrator-General of Bengal

Calcutta, 24th March 1890. (3682—1)

Currency Notes.

THE following Currency Note of the Calcutta Circle is stated to have been destroyed, and payment of its value has been claimed by the person whose name is placed against the number; any other person claiming a right to it is warned to communicate at once with the undersigned :—

Note wholly lost or destroyed.

Register number.	Number of Note.	Value.	Name of Claimant
		Rs.	
W278 of 1887	R/91 48528	100	Bucha Miah, Agent of Hajee Hossain Mahomed Usman Sahib, Leather Merchant, Bhusaval.

H. KEENE, Assistant Comptroller-General, in charge Paper Currency.

Paper Currency Department, 25th March 1890.

Notice.

List of Unclaimed Packages lying on the Custom House Wharf.

1 Revolver and 1 tin cartridges, S. B. Watts.	S.S.	"India."
1 Box cartridges, R. Warneford.	„	"Clan Macarthur."
1 Revolver, no mark (R. W. Amplith).	„	"Goorkha"
1 Revolver, no mark (S. Kuffman).	„	"Patiala."
1 Gun, 1 box shots, 1 flask shots, 1 flask powder (Cooly Emigrant Bahary).	Ship	"Moy."
3 Crates, no mark ...	S.S	"Maldah."
2 Cases, stiles ...	„	"City of Venice."
3 Cases, G. N. 668-70 ...	„	"Goa"
1 Small box, Jardine, Skinner & Co	„	"Japan."
1 Small parcel, V. Sethampara Pillay, care of E. Armstrong	„	"Kupurthala."
2 Bottles Spirit, Kisir Sing ...	„	"Moray."
1 Small bag, F. C. Cooper, 1 Mangoe Lane.	„	Ditto.
12 Bags, N. R. ...	„	"Friary."
26 Pints, no mark (Kearley) ...	„	"Japan."
1 Chair (broken), J. Wilson ...	„	"Shannon."
1 Chair, Hughes ...	„	Ditto.
1 Chair, Rogers	„	Ditto.
2 Chairs (broken), E. P. ...	„	Ditto.
1 Chair, no mark	„	Ditto.
1 Chair, M. J. H.	„	Ditto.
1 Chest, no mark	„	Ditto.
1 Revolver, C. Cox ...	„	"Chusan."
1 Chair, S Evans	„	Ditto.
1 Chair, Gore	„	Ditto.
1 Chair, Mrs. Thullier ...	„	Ditto.
1 Chair, Miss Sparkes ...	„	Ditto.
1 Chair, Mrs. Ellis ...	„	Ditto.
1 Chair, R. L. C. ...	„	Ditto.
1 Chair, H. B. S. ...	„	Ditto.
5 Chairs, no mark ...	„	Ditto.
1 Case, T. E. Taylor ...	„	"Pekin."
1 Basket, no mark	„	Ditto.
1 Easy chair, no mark ...	„	Ditto.
1 Easy chair, Leslie ...	„	Ditto.
1 Case, Locke, 357 ...	„	"City of Agra."
1 Case, Locke, 255 ...	„	"City of Cambridge."
1 Case, Locke, 197 ...	„	"Mira."
2 Cases, Locke, 194-5 ...	„	"Navigator."
1 Gun, Nazeer Ally ...	„	"Ethiopia."

N.B—The above will be sold, if not cleared on or before the 16th April 1890

J. SCOBELL ARMSTRONG,
Collector of Customs.

Custom House, Calcutta, the 24th March 1890.

Destroyed.

THE Government Promissory Notes Nos. 042456, 7, and 8, and 031472 and 031473 of the 4½ per cent. loan of 1879, aggregating rupees four thousand, originally standing in the names of Bunseelall Abeer Chand, Rai Bahadoor, and the Bank of Bengal, respectively, and last endorsed to C. J. Quadrus, the proprietor, by whom they were never endorsed to any other person. Payment of the above Notes and the interest thereupon have been stopped at the Public Debt Office, Bank of Bengal, and application is to be made for accrued interest, and for the issue of duplicates in favour of the proprietor after two years from date of last advertisement.

(3535—3) C. J. QUADRUS, Bhagulpore.

INSOLVENT NOTICES.

In the Court for the Relief of Insolvent Debtors at Calcutta.

In the matter of BEHARY LALL GUPTO, an insolvent.

On Wednesday, the 5th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3660—2)

In the matter of CHARLES EDWARD CLIVE, an insolvent.

On Wednesday, the 5th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3661—2)

In the matter of JOHN JAMES GILL, an insolvent.

On Friday, the 7th day of March instant, it was ordered that the matters of the petition of the said insolvent be heard on Saturday, the 19th day of April next, and that the said insolvent do then attend to be examined before the said Court.

Insolvent in person. (3662—2)

Chief Clerk's Office, the 18th day of March 1890.

In the matter of MOHENDRA NATH BOSE, who lately resided at No. 13, Manicktollah Street in the town of Calcutta, and who lately carried on business as contractor and cargo-boat supplier, and also manufacturer of and dealer in til seed and mustard oil at Nos. 94 and 95, Manicktollah Street aforesaid, under the name and style of Mohendro Nath Bose, an insolvent.

On Monday, the 3rd day of March instant, it was, on the petition of Buddree Dass, a creditor of the said insolvent, adjudged that the said Mohendro Nath Bose hath committed an act of insolvency under the provisions of the Act XI Vic., Chapter XXI, and by another order of the same date the estate and effects of the said insolvent were vested in the Official Assignee

M. CAMELL, Attorney. (3686—2)

In the matter of JOHN HENRY THOMAS, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 31st day of March instant, at the hour of half past ten o'clock in the forenoon,

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

N. C Bural, Attorney. (3687—1)

In the matter of WILLIAM ARNOLD KIDD, an insolvent.

Notice that an application for an *ad interim* protection order has been this day made by the said insolvent, and that such application will be heard and disposed of by the Acting Commissioner of the Insolvent Court on Monday, the 31st day of March instant, at the hour of half past ten o'clock in the forenoon.

☞ "Any creditor of the said insolvent desirous of opposing such application must appear before the said Court at the time and place aforesaid."

H. C. Chick, Attorney. (3688—1)

In the matter of LEO ZANIER and RAOUL QUILLET, insolvents.

On Saturday, the 1st day of March instant, by an order of this Court, the said insolvents were adjudged entitled to their personal discharge under the Act XI Vic., Chapter XXI, as to all persons named in their schedule as creditors or claiming to be creditors respectively.

Dignam, Robinson and Sparkes, Attorneys. (3689—1

In the matter of LEO ZANDER AND RAOUL QUILLET, insolvents.

On Saturday, the 1st day of March instant, it was ordered that the matters of the petition of the said insolvents be heard on the first Court day in March 1891, and that the said insolvents do then attend to be examined before the said Court.

Dignam, Robinson and Sparkes, Attorneys.

(3690—2)

In the matter of W. J. H. LATHAM, an insolvent.

On Saturday, the 11th day of January last, it was ordered that, subject to payment to Albert Birmingham Miller, Esq., the Official Assignee of this Court and the Assignee of the estate and effects of the said insolvent, of his usual commission and all costs and charges lawfully due, the petition filed by the said insolvent seeking for relief under the provisions of the said Act be dismissed, and the vesting order made thereon be discharged, provided always that all acts or things done by the said Assignee or other person acting under his authority prior to this order shall be good and valid and shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvent upon his receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvent.

Insolvent in person. (3691—1)

In the matter of MADHUB LALL SHAW CHOWDHURY and others, insolvents.

On Wednesday, the 19th day of February last, it was ordered that, subject to payment to Albert Birmingham Miller, Esq., the Official Assignee of this Court and the Assignee of the estate and effects of the said insolvents, of his usual commission and all costs and charges lawfully due, the order of adjudication against the said insolvents, made in this matter on the 8th day of March last, be revoked, and the vesting order made thereon be discharged, provided always that all acts or things done by the said Assignee or other person acting under his authority prior to this order shall be good and valid and shall not be annulled or in any wise affected thereby, and upon payment of his commission and all costs, charges and expenses lawfully incurred by him as aforesaid, the said Assignee do deliver over to the said insolvents upon their receipt all the estate and effects, moneys, goods, books and papers now remaining in the hands of the said Assignee belonging to the estate of the said insolvents.

C. F. Pittar, Attorney.

(3692—1)

In the matter of MATABHOY PESTONJEE of No. 72, Hurrinbarree 2nd Lane, in the town of Calcutta, a hotel-keeper, an insolvent.

Notice that the petition of the said insolvent seeking the benefit of the Act XI Vic., Chapter XXI, was filed in the Office of the Chief Clerk on Tuesday, the 11th day of March instant, and by an order of the same date the estate and effects of the said insolvent were vested in the Official Assignee.

N. C. Bural, Attorney. (3693—1)

Chief Clerk's Office, the 25th March 1890.

POSTAL NOTICES.

Unclaimed Letters held in the Calcutta General Post Office on 25th March 1890.

Canadian Pacific Railway and Steam Ship Company, Agent of.
Carleton, Sydney and Co.
Cohen, A. M.
Dalton, John S.
Daimo, S.
Dick, W. B.
Latapie, E. D. and Co.
Reid, Mrs. (Wool merchant.)
Richards, L.
Speed and Co.
Weatherill, S.
Wedderburn, William.

Letters marked Care of "Post Office."

Baldwin, W. H.
Bernafcom, F.
Biss, A. H.
Braham, F.
Britten, W.
Brown, W.
Browne, A. D.
Burnett, Mrs
Carbery, Lady.
Cayley, H
Charmetaut, Mr.
Chatterton, Joseph
Close, Henry.
Cooper, H. J.
Cooper, W.
DaRocha, B. F.
Douglas, G. P. H.
Drakeford, A.
Dunlo, Viscount.
Dymond, G F.
Elliott, K.
Elmore, John S.
Fergusson, J. H. and Co.
Fleischhaker, F.
Forbes, James.
Forshaw, H.
Fraiser, Miss Flo.
Francis, A. M.
Francis, Mrs R.
Gantzman, Charles
Gifford, H. J
Gillett, Capt. T. E.
Glover, W. E
Green, W. W.
Handcock, J P.
Hamilton, C. J.
Hardy, Mrs. M.
Haye, G Irvine.
Hewett, F. J.
Higgins, C. C.
Hograth, Mrs M.
Horus, Miss M. L.
Howard, Dr. B.
Humphries, Mrs. H.
Hunter, H C.
Jackson, Mrs. C. N.
Jackson, S J
Johannessen, O. C.
Kennard, F.
Kobus, J. D.
Lach, R.
Lamb, E. G.
Lamb, Miss Kate.
Langor, J. O.
Linton, C. E.
Livesey, Thomas.
Long, W.
Mackenzie, J.
Major, A
Matthews, J R.
Mathewson, F.
Maxwell, Sir J. S.
May, J. J.
McSmith, D.
Menexis, Mrs. C.
Menzies, C.
Morgan, Mrs. R.
Morshead, L.
Newby, C. R. A.
O'Mealy, Capt. D'Oyly.
Payne, E. H.
Penn, Mrs.
Petter, Edward
Phillips, Mrs. G.
Platts, Mrs. S. K.
Potokie, Count J.
Powell, F.
Prenter, Miss.
Rancourt, E. deM.
Ranken, Bayne.
Rennrick, F. B. M.
Rishworth, Mrs.
Robertson, John.
Robinson, G
Rosenstern, Otto.
Roskell, Richard.
Ross, J. D.
Russell, Donald.
Rutter, Dr. G. H.
Searle, F. W.
Stebbing, Capt. A. E.
Sheumon, John.
Shworth, T K.
Thomson, Captain W. A.
Thompson, D.
Uphill, T.
Ursite, Johan.
Walter, F.
Walter, Amherst.
Warry, W.

Registered Letters.

Chiodetti, A.
Davis, W N.
MacLeod, D. J.
Marsland, W.
Walsh, C. W.

Unclaimed Letters held in the Barrackpore Post Office on the 24th March 1890.

Barton, Mrs. Mary.
Buckner, J. W.
Caultet, A.
Faulkines, G. H.
Ferguson, H. F.
Fleescher, T.
Haddon, A.
Henderson, W.
James, C. W.
Robertson, J.
Rodrigues, A. L.
Wilker, H. F.

E. HUTTON,
Presidency Postmaster, Calcutta.

Mails for	Date of closing at Calcutta.	Route by which despatched
	1890.	
Egypt, Europe, America, Cape Colonies through United Kingdom.	1st April ...	Per P. & O. steamer from Bombay.
Ditto (book-post and pattern packets)	30th March...	Ditto.
Mauritius, Mahé (Seychelles), and Réunion.	1st April ...	Ditto.
Ceylon, Straits Settlements, Netherlands India, Labuan, Bankok (Siam), Philippine Islands, China and Japan.	7th ,, .	Ditto.
Australia, New Zealand, and Tasmania.	7th ,, ...	Ditto.
Madras and Colombo ...	2nd ,, ...	Per P. & O. steamer *Nepal.*
Straits, China and Japan ...	5th ,, ...	Per str. *A Apear.*
Rangoon and Moulmein ...	26th March	Ditto *Chanda.*
Ditto ditto ...	28th ,, ...	Ditto *Pachumba.*
Akyab, Kyaukpyu, Sandoway and Rangoon.	26th ,, .	Ditto *Madras.*
Adelaide, Melbourne, Sydney and Brisbane.	2nd April ...	Ditto *Nerbudda.*
Zanzibar and Mombassa ..	2nd ,,	Ditto *Madura.*

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E. HUTTON, Presidency Postmaster.

General Post Office, the 25th March 1890.

Nuddea Rivers.

Report showing the least depths of water for the week ending Friday, the 21st March 1890.

Name of river.	Reach of river.	Least depth of water soundings.	Remarks.
		Ft. In.	
Bhagirati.	Entrance from Ganges ...	0 3	At mouth entrance practically closed.
	Thence to Nurpur ...	0 6	Tiktikipara.
	From Nurpur to Jungipur	0 7	Bangabari.
	,, Jungipur to Berhampur	0 9	Seshpore.
	,, Berhampur to Cutwa ...	1 0	Medupara.
	,, Cutwa to Nuddea ...	2 0	Kurkoria.
Bhyrub-Jellinghi.	Entrance from Ganges ...	4 3	
	Thence to Akriganj	5 0	
	Akriganj to junction of the Bhyrub and Jelinghi ...	3 6	Rompore.
	Thence to Patkabari	3 6	Lalnagore.
	Patkabari to Nuddea	3 0	Gopinathpore.
Matabanga.	Entrance from Ganges ...	1 3	
	Thence to Chuypara .	0 4	Surrarpara
	From Chuypara to Shikarpur	0 3	Pragpore
	,, Shikarpur to Boalia ...	0 3	Shampore.
	,, Boalia to Chuadanga ..	2 0	Sialmari.
	,, Chuadanga to Kumergani and Hanskhali ..	2 0	Bastopore.

Gauge Readings.

	Locality.	Date.	Hour.	Height above zero.	Height above mean sea level.	Remarks.
			A. M.	Feet	Feet.	
Ganges.	Sahebganj ...	22-3-90	6	7 92	65 08	Below zero.
	Rampore Boalia	22-3-90	12	0·92	41·08	Ditto
	Entrance of Bhagirati	22 3 90	7	1 40	46 71	
	Entrance of Bhyrub-Jelinghi	22-3-90	...	5 00	43·36	
	Entrance of Matabanga ...	22 3-90		2·00		
Bhagirati...	Berhampur ...	24-3-90	12	1·70	35·49	
Jelinghi	Kushnaghur ...	21-3-90		2·50	11·39	
	Saroopgunge ...	22 3-90	6	5·04	7·34	
Matabanga	Hanskhali ...	21-3-90	...	2 50	13 35	

PURNA CHANDRA BOSE, *Asstt*
For Exe. Engr., Nuddea Rivers Division.

Berhampore, the 24th March 1890.

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Notification.

IN modification of the Notice, dated the 7th November 1882, published in Part II, page 1686 of the *Calcutta Gazette*, the following notice is published for information :—

Notice is hereby given, that the terms for the purchase of publications from, and for all work done in, the Bengal Secretariat Press for other than Government offices or offices under the control of Government Officers, are strictly cash.

In future no publication will be supplied, of advertisement notice, &c., inserted in either or the Gazettes, except for the offices mentioned above unless the cost thereof has been remitted to the Accountant, Bengal Secretariat. In the case of insolvency notices, cash must be sent with such notices when forwarded by Mofussil courts or offices, and for those forwarded by the Official Assignee, cash must be paid on presentation of memorandum of cost by the Accountant and Treasurer, Bengal Secretariat.

Remittances in postage stamps should be accompanied by an addition of one anna in the rupee on account of discount.

R. H. WILSON,
Offg. Secy. to the Govt. of Bengal.
The 24th February 1886.

NOTE.—Rate for advertisements in the *Calcutta Gazette*:—

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☞ Applications for Acts of the Bengal Legislative Council required on the public service should be addressed to the REGISTRAR, office of the Legislative Department, Government of Bengal, situated at No. 5 on the top floor of the Government Offices, Writers' Buildings, Calcutta.

Copies are available for purchase at MESSRS. THACKER, SPINK AND CO., Government Place, Calcutta.

NOTICE.

IT is hereby notified, for general information, that subscriptions to the complete series of the Indian Law Reports should be registered during the first three months of each calendar year. Subscribers are therefore requested to send in their subscriptions for the complete series before the 31st March in each year. Those who register their names after that date will understand that copies will be supplied only if available.

H. A. D. PHILLIPS,
Under-Secy. to the Govt. of Bengal.
The 24th November 1886.

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The Calcutta Gazette.

WEDNESDAY, MARCH 26, 1890.

PART III.

Acts of the Bengal Council.

GOVERNMENT OF BENGAL.

LEGISLATIVE DEPARTMENT.

Third Publication.]

THE following Act, passed by the Lieutenant-Governor of Bengal in Council, received the assent of His Honour on the 1st February, 1890, and having been assented to by His Excellency the Viceroy and Governor-General on the 4th March, 1890, is hereby published for general information :—

ACT No. II OF 1890.

An Act to amend the Bengal Vaccination Act, 1880.

WHEREAS it is expedient to amend the Bengal Vaccination Act, 1880; It is hereby enacted as follows:— Preamble.

1. This Act shall come into force from the date on which it may be published in the *Calcutta Gazette* with the assent of the Governor-General. Commencement of Act.

2. In the Preamble of the Bengal Vaccination Act, 1880, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of Preamble of Act V 1880.

3. In section one of the same Act, for the words "the Town, Port, and Suburbs" the words "the Town of Calcutta, and the Port of Calcutta" shall be substituted. Amendment of section 1 Act V, 1880.

4. (*1*) In section two of the same Act, for the definition of "Town of Calcutta" the definition "'Town of Calcutta' means Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888," shall be substituted. Amendment of definition of "Town of Calcutta."

(*2*) In the same section, add the following to the definition of 'Port of Calcutta':— Addition to definition of "Port of Calcutta."

"or any other law for the time being in force."

(*3*) In the same section, the definition of "Suburbs of Calcutta" is hereby repealed. Repeal of definition of "Suburbs of Calcutta."

5. (*1*) All rules made and orders issued under section thirty-three of the Bengal Vaccination Act, 1880, relating to the Town of Calcutta in force immediately before the passing of this Act, shall be deemed to be in force in Calcutta as defined by the Calcutta Municipal Consolidation Act, 1888. Rules and orders in force before passing of Act to be in force in Calcutta as defined by Act II, 1888.

(*2*) The Local Government may, from time to time, modify or cancel such rules and orders.

(*3*) And all such rules and orders relating to the Suburbs of Calcutta are hereby repealed.

CALCUTTA;
The 10th March, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal, Legislative Department.

The Calcutta Gazette.

PUBLISHED BY AUTHORITY.

WEDNESDAY, MARCH 26, 1890.

☞ Separate paging is given to this Part in order that it may be filed as a separate compilation.

PART V.

Acts of the Governor General's Council assented to by the Governor General.

GOVERNMENT OF INDIA.

LEGISLATIVE DEPARTMENT.

The following Act of the Governor General of India in Council received the assent of His Excellency the Governor General on the 21st March, 1890, and is hereby promulgated for general information :—

ACT NO. VIII OF 1890.

THE GUARDIANS AND WARDS ACT, 1890.

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The Guardians and Wards Act, 1890.

(Chapter I.—Preliminary.—Sections 1-4. Chapter II.—Appointment and Declaration of Guardians.—Sections 5-6)

An Act to consolidate and amend the law relating to Guardian and Ward.

WHEREAS it is expedient to consolidate and amend the law relating to guardian and ward; It is hereby enacted as follows:—

CHAPTER I.

PRELIMINARY.

Title, extent and commencement.

1. (*1*) This Act may be called the Guardians and Wards Act, 1890.

(*2*) It extends to the whole of British India, inclusive of Upper Burma and British Baluchistan; and

(*3*) It shall come into force on the first day of July, 1890.

Repeal.

2. (*1*) On and from that day the enactments mentioned in the schedule shall be repealed to the extent specified in the third column thereof.

(*2*) But all proceedings had, certificates granted, allowances assigned, obligations imposed, and applications, appointments, orders and rules made under any of those enactments, shall, so far as may be, be deemed to have been respectively had, granted, assigned, imposed and made under this Act; and

(*3*) Any enactment or document referring to any of those enactments shall, so far as may be, be construed to refer to this Act or to the corresponding portion thereof.

Saving of jurisdiction of Courts of Wards and Chartered High Courts.

3. This Act shall be read subject to every enactment heretofore or hereafter passed relating to any Court of Wards by the Governor General in Council or by a Governor or Lieutenant-Governor in Council; and nothing in this Act shall be construed to affect, or in any way derogate from, the jurisdiction or authority of any Court of Wards, or to take away any power possessed by any High Court established under the Statute 24 and 25 Victoria, Chapter 104 (*an Act for establishing High Courts of Judicature in India*).

Definitions

4. In this Act, unless there is something repugnant in the subject or context,—

IX of 1875 (*1*) "minor" means a person who, under the provisions of the Indian Majority Act, 1875, is to be deemed not to have attained his majority:

(*2*) "guardian" means a person having the care of the person of a minor or of his property, or of both his person and property:

(*3*) "ward" means a minor for whose person or property, or both, there is a guardian:

XIV of 1882. (*4*) "District Court" has the meaning assigned to that expression in the Code of Civil Procedure, and includes a High Court in the exercise of its ordinary original civil jurisdiction:

(*5*) "the Court" means the District Court having jurisdiction to entertain an application under this Act for an order appointing or declaring a person to be a guardian; and, where a guardian has been appointed or declared in pursuance of any such application, it means the Court which appointed or declared the guardian, or, in any matter relating to the person of the ward, the District Court having jurisdiction in the place where the ward for the time being ordinarily resides:

(*6*) "Collector" means the chief officer in charge of the revenue-administration of a district, and includes any officer whom the Local Government, by notification in the official Gazette, may, by name or in virtue of his office, appoint to be a Collector in any local area, or with respect to any class of persons, for all or any of the purposes of this Act:

X of 1882. (*7*) "European British subject" means an European British subject as defined in the Code of Criminal Procedure, 1882, and includes any Christian of European descent: and

(*8*) "prescribed" means prescribed by rules made by the High Court under this Act.

CHAPTER II.

APPOINTMENT AND DECLARATION OF GUARDIANS.

Power of parents to appoint in case of European British subjects.

5. (*1*) Where a minor is an European British subject, a guardian or guardians of his person or property, or both, may be appointed by will or other instrument to take effect on the death of the person appointing,—

(*a*) by the father of the minor, or,

(*b*) if the father is dead or incapable of acting, by the mother.

(*2*) Where guardians have been appointed under sub-section (*1*) by both parents, they shall act jointly.

Saving of power to appoint in other cases.

6. In the case of a minor who is not an European British subject, nothing in this Act shall be construed to take away or derogate from any power to appoint a guardian of his person or property, or both, which is valid by the law to which the minor is subject,

The Guardians and Wards Act, 1890.

(Chapter II.—Appointment and Declaration of Guardians.—Sections 7-11)

Power of the Court to make order as to guardianship

7. (*1*) Where the Court is satisfied that it is for the welfare of a minor that an order should be made—

(*a*) appointing a guardian of his person or property, or both, or

(*b*) declaring a person to be such a guardian,

the Court may make an order accordingly.

(*2*) An order under this section shall imply the removal of any guardian who has not been appointed by will or other instrument or appointed or declared by the Court.

(*3*) Where a guardian has been appointed by will or other instrument or appointed or declared by the Court, an order under this section appointing or declaring another person to be guardian in his stead shall not be made until the powers of the guardian appointed or declared as aforesaid have ceased under the provisions of this Act.

Persons entitled to apply for order.

8. An order shall not be made under the last foregoing section except on the application of—

(*a*) the person desirous of being, or claiming to be, the guardian of the minor, or

(*b*) any relative or friend of the minor, or

(*c*) the Collector of the district or other local area within which the minor ordinarily resides or in which he has property, or

(*d*) the Collector having authority with respect to the class to which the minor belongs.

Court having jurisdiction to entertain application.

9. (*1*) If the application is with respect to the guardianship of the person of the minor, it shall be made to the District Court having jurisdiction in the place where the minor ordinarily resides.

(*2*) If the application is with respect to the guardianship of the property of the minor, it may be made either to the District Court having jurisdiction in the place where the minor ordinarily resides or to a District Court having jurisdiction in a place where he has property.

(*3*) If an application with respect to the guardianship of the property of a minor is made to a District Court other than that having jurisdiction in the place where the minor ordinarily resides, the Court may return the application if in its opinion the application would be disposed of more justly or conveniently by any other District Court having jurisdiction.

Form of application.

10. (*1*) If the application is not made by the Collector, it shall be by petition signed and verified in manner prescribed by the Code of Civil Procedure for the signing and verification of a plaint, and stating, so far as can be ascertained,—

XIV of 1882

(*a*) the name, sex, religion, date of birth and ordinary residence of the minor;

(*b*) where the minor is a female, whether she is married, and, if so, the name and age of her husband;

(*c*) the nature, situation and approximate value of the property, if any, of the minor,

(*d*) the name and residence of the person having the custody or possession of the person or property of the minor;

(*e*) what near relations the minor has, and where they reside;

(*f*) whether a guardian of the person or property, or both, of the minor has been appointed by any person entitled or claiming to be entitled by the law to which the minor is subject to make such an appointment;

(*g*) whether an application has at any time been made to the Court or to any other Court with respect to the guardianship of the person or property, or both, of the minor, and, if so, when, to what Court and with what result;

(*h*) whether the application is for the appointment or declaration of a guardian of the person of the minor, or of his property, or of both;

(*i*) where the application is to appoint a guardian, the qualifications of the proposed guardian;

(*j*) where the application is to declare a person to be a guardian, the grounds on which that person claims;

(*k*) the causes which have led to the making of the application; and

(*l*) such other particulars, if any, as may be prescribed or as the nature of the application renders it necessary to state.

(*2*) If the application is made by the Collector, it shall be by letter addressed to the Court and forwarded by post or in such other manner as may be found convenient, and shall state as far as possible the particulars mentioned in sub-section (*1*).

(*3*) The application must be accompanied by a declaration of the willingness of the proposed guardian to act, and the declaration must be signed by him and attested by at least two witnesses.

Procedure on admission of application.

11. (*1*) If the Court is satisfied that there is ground for proceeding on the application, it shall fix

The Guardians and Wards Act, 1890.

(Chapter II.—Appointment and Declaration of Guardians.—Sections 12-15.)

a day for the hearing thereof, and cause notice of the application and of the date fixed for the hearing—

(*a*) to be served in the manner directed in the Code of Civil Procedure on— of 1882.

(i) the parents of the minor if they are residing in British India,

(ii) the person, if any, named in the petition or letter as having the custody or possession of the person or property of the minor,

(iii) the person proposed in the application or letter to be appointed or declared guardian, unless that person is himself the applicant, and

(iv) any other person to whom, in the opinion of the Court, special notice of the application should be given; and

(*b*) to be posted on some conspicuous part of the court-house, and of the residence of the minor, and otherwise published in such manner as the Court, subject to any rules made by the High Court under this Act, thinks fit.

(*2*) The Local Government may, by general or special order, require that, when any part of the property described in a petition under section 10, sub-section (*1*), is land of which a Court of Wards could assume the superintendence, the Court shall also cause a notice as aforesaid to be served on the Collector in whose district the minor ordinarily resides, and on every Collector in whose district any portion of the land is situate, and the Collector may cause the notice to be published in any manner he deems fit.

(*3*) No charge shall be made by the Court or the Collector for the service or publication of any notice served or published under sub-section (*2*).

Power to make interlocutory order for production of minor and interim protection of person and property.

12. (*1*) The Court may direct that the person, if any, having the custody of the minor shall produce him or cause him to be produced at such place and time and before such person as it appoints, and may make such order for the temporary custody and protection of the person or property of the minor as it thinks proper.

(*2*) If the minor is a female who ought not to be compelled to appear in public, the direction under sub-section (*1*) for her production shall require her to be produced in accordance with the customs and manners of the country.

(*3*) Nothing in this section shall authorise—

(*a*) the Court to place a female minor in the temporary custody of a person claiming to be her guardian on the ground of his being her husband, unless she is already in his custody with the consent of her parents, if any, or

(*b*) any person to whom the temporary custody and protection of the property of a minor is entrusted to dispossess otherwise than by due course of law any person in possession of any of the property.

Hearing of evidence before making of order.

13. On the day fixed for the hearing of the application, or as soon afterwards as may be, the Court shall hear such evidence as may be adduced in support of or in opposition to the application.

Simultaneous proceedings in different Courts.

14. (*1*) If proceedings for the appointment or declaration of a guardian of a minor are taken in more Courts than one, each of those Courts shall, on being apprised of the proceedings in the other Court or Courts, stay the proceedings before itself.

(*2*) If the Courts are both or all subordinate to the same High Court, they shall report the case to the High Court, and the High Court shall determine in which of the Courts the proceedings with respect to the appointment or declaration of a guardian of the minor shall be had.

(*3*) In any other case in which proceedings are stayed under sub-section (*1*), the Courts shall report the case through the Local Government to the Governor General in Council, and the Governor General in Council shall determine in which of the Courts the proceedings with respect to the appointment or declaration of a guardian of the minor shall be had.

Appointment or declaration of several guardians.

15. (*1*) If the law to which the minor is subject admits of his having two or more joint guardians of his person or property, or both, the Court may, if it thinks fit, appoint or declare them.

(*2*) On the death of a father, being an European British subject, who has, by will or other instrument to take effect on his death, appointed a guardian of his minor child, the Court may appoint the mother to be guardian of the child jointly with the guardian appointed by the father.

(*3*) On the death of a mother, being an European British subject, who during the incapacity of the father of her minor child has, by will or other instrument to take effect on her death, appointed a guardian of the child, the Court may, if the father becomes capable of acting, appoint him to be sole guardian of the child or guardian of the child jointly with the guardian appointed by the mother, as it thinks fit.

The Guardians and Wards Act, 1890.

(Chapter II.—Appointment and Declaration of Guardians.—Sections 16-19.)

Chapter III.—Duties, Rights and Liabilities of Guardians.—Sections 20-22.

(4) Separate guardians may be appointed or declared of the person and of the property of a minor.

(5) If a minor has several properties, the Court may, if it thinks fit, appoint or declare a separate guardian for any one or more of the properties.

Appointment or declaration of guardian for property beyond jurisdiction of the Court.

16. If the Court appoints or declares a guardian for any property situate beyond the local limits of its jurisdiction, the Court having jurisdiction in the place where the property is situate shall, on production of a certified copy of the order appointing or declaring the guardian, accept him as duly appointed or declared and give effect to the order.

Matters to be considered by the Court in appointing guardian.

17. (1) In appointing or declaring the guardian of a minor the Court shall, subject to the provisions of this section, be guided by what, consistently with the law to which the minor is subject, appears in the circumstances to be for the welfare of the minor.

(2) In considering what will be for the welfare of the minor, the Court shall have regard to the age, sex and religion of the minor, the character and capacity of the proposed guardian and his nearness of kin to the minor, the wishes, if any, of a deceased parent, and any existing or previous relations of the proposed guardian with the minor or his property.

(3) If the minor is old enough to form an intelligent preference, the Court may consider that preference.

(4) As between parents who are European British subjects adversely claiming the guardianship of the person, neither parent is entitled to it as of right, but, other things being equal, if the minor is a male of tender years or a female, the minor should be given to the mother, and if the minor is a male of an age to require education and preparation for labour and business, then to the father.

(5) The Court shall not appoint or declare any person to be a guardian against his will.

Appointment or declaration of Collector in virtue of office.

18. Where a Collector is appointed or declared by the Court in virtue of his office to be guardian of the person or property, or both, of a minor, the order appointing or declaring him shall be deemed to authorise and require the person for the time being holding the office to act as guardian of the minor with respect to his person or property, or both, as the case may be.

Guardian not to be appointed by the Court in certain cases.

19. Nothing in this Chapter shall authorise the Court to appoint or declare a guardian of the property of a minor whose property is under the superintendence of a Court of Wards, or to appoint or declare a guardian of the person—

(a) of a minor who is a married female and whose husband is not, in the opinion of the Court, unfit to be guardian of her person, or,

(b) subject to the provisions of this Act with respect to European British subjects, of a minor whose father is living and is not, in the opinion of the Court, unfit to be guardian of the person of the minor, or

(c) of a minor whose property is under the superintendence of a Court of Wards competent to appoint a guardian of the person of the minor.

CHAPTER III.

DUTIES, RIGHTS AND LIABILITIES OF GUARDIANS.

General.

Fiduciary relation of guardian to ward.

20. (1) A guardian stands in a fiduciary relation to his ward, and, save as provided by the will or other instrument, if any, by which he was appointed, or by this Act, he must not make any profit out of his office.

(2) The fiduciary relation of a guardian to his ward extends to and affects purchases by the guardian of the property of the ward, and by the ward of the property of the guardian, immediately or soon after the ward has ceased to be a minor, and generally all transactions between them, while the influence of the guardian still lasts or is recent.

Capacity of minors to act as guardians.

21. A minor is incompetent to act as guardian of any minor except his own wife or child or, where he is the managing member of an undivided Hindu family, the wife or child of another minor member of that family.

Remuneration of guardian.

22. (1) A guardian appointed or declared by the Court shall be entitled to such allowance, if any, as the Court thinks fit for his care and pains in the execution of his duties.

(2) When an officer of the Government, as such officer, is so appointed or declared to be guardian, such fees shall be paid to the Government out of the property of the ward as the Local Government, by general or special order, directs.

The Guardians and Wards Act, 1890.

(Chapter III.—Duties, Rights and Liabilities of Guardians.—Sections 23-31.)

Control of Collector as guardian.

23. A Collector appointed or declared by the Court to be guardian of the person or property, or both, of a minor shall, in all matters connected with the guardianship of his ward, be subject to the control of the Local Government or of such authority as that Government, by notification in the official Gazette, appoints in this behalf.

Guardian of the Person.

Duties of guardian of the person.

24. A guardian of the person of a ward is charged with the custody of the ward, and must look to his support, health and education, and such other matters as the law to which the ward is subject requires.

Title of guardian to custody of ward.

25. (*1*) If a ward leaves or is removed from the custody of a guardian of his person, the Court, if it is of opinion that it will be for the welfare of the ward to return to the custody of his guardian, may make an order for his return, and for the purpose of enforcing the order may cause the ward to be arrested and to be delivered into the custody of the guardian.

(*2*) For the purpose of arresting the ward, the Court may exercise the power conferred on a Magistrate of the first class by section 100 of the Code of Criminal Procedure, 1882.

(*3*) The residence of a ward against the will of his guardian with a person who is not his guardian does not of itself terminate the guardianship.

Removal of ward from jurisdiction.

26. (*1*) A guardian of the person appointed or declared by the Court, unless he is the Collector or is a guardian appointed by will or other instrument, shall not, without the leave of the Court by which he was appointed or declared, remove the ward from the limits of its jurisdiction except for such purposes as may be prescribed.

(*2*) The leave granted by the Court under sub-section (*1*) may be special or general, and may be defined by the order granting it.

Guardian of Property.

Duties of guardian of property.

27. A guardian of the property of a ward is bound to deal therewith as carefully as a man of ordinary prudence would deal with it if it were his own, and, subject to the provisions of this Chapter, he may do all acts which are reasonable and proper for the realisation, protection or benefit of the property.

Powers of testamentary guardian.

28. Where a guardian has been appointed by will or other instrument, his power to mortgage or charge, or transfer by sale, gift, exchange or otherwise, immoveable property belonging to his ward is subject to any restriction which may be imposed by the instrument, unless he has under this Act been declared guardian and the Court which made the declaration permits him by an order in writing, notwithstanding the restriction, to dispose of any immoveable property specified in the order in a manner permitted by the order.

Limitation of powers of guardian of property appointed or declared by the Court.

29. Where a person other than a Collector, or than a guardian appointed by will or other instrument, has been appointed or declared by the Court to be guardian of the property of a ward, he shall not, without the previous permission of the Court,—

(*a*) mortgage or charge, or transfer by sale, gift, exchange or otherwise, any part of the immoveable property of his ward, or

(*b*) lease any part of that property for a term exceeding five years or for any term extending more than one year beyond the date on which the ward will cease to be a minor.

Voidability of transfers made in contravention of section 28 or section 29.

30. A disposal of immoveable property by a guardian in contravention of either of the two last foregoing sections is voidable at the instance of any other person affected thereby.

Practice with respect to permitting transfers under section 29.

31. (*1*) Permission to the guardian to do any of the acts mentioned in section 29 shall not be granted by the Court except in case of necessity or for an evident advantage to the ward.

(*2*) The order granting the permission shall recite the necessity or advantage, as the case may be, describe the property with respect to which the act permitted is to be done, and specify such conditions, if any, as the Court may see fit to attach to the permission; and it shall be recorded, dated and signed by the Judge of the Court with his own hand, or, when from any cause he is prevented from recording the order with his own hand, shall be taken down in writing from his dictation and be dated and signed by him.

(*3*) The Court may in its discretion attach to the permission the following among other conditions, namely:—

(*a*) that a sale shall not be completed without the sanction of the Court;

The Guardians and Wards Act, 1890.

(Chapter III.—Duties, Rights and Liabilities of Guardians.—Sections 32-35.)

(*b*) that a sale shall be made to the highest bidder by public auction, before the Court or some person specially appointed by the Court for that purpose, at a time and place to be specified by the Court, after such proclamation of the intended sale as the Court, subject to any rules made under this Act by the High Court, directs;

(*c*) that a lease shall not be made in consideration of a premium or shall be made for such term of years and subject to such rents and covenants as the Court directs;

(*d*) that the whole or any part of the proceeds of the act permitted shall be paid into the Court by the guardian, to be disbursed therefrom or to be invested by the Court on prescribed securities or to be otherwise disposed of as the Court directs.

(*4*) Before granting permission to a guardian to do an act mentioned in section 29, the Court may cause notice of the application for the permission to be given to any relative or friend of the ward who should, in its opinion, receive notice thereof, and shall hear and record the statement of any person who appears in opposition to the application.

Variation of powers of guardian of property appointed or declared by the Court.

32. Where a guardian of the property of a ward has been appointed or declared by the Court and such guardian is not the Collector, the Court may, from time to time, by order, define, restrict or extend his powers with respect to the property of the ward in such manner and to such extent as it may consider to be for the advantage of the ward and consistent with the law to which the ward is subject.

Right of guardian so appointed or declared to apply to the Court for opinion in management of property of ward.

33. (*1*) A guardian appointed or declared by the Court may apply by petition to the Court which appointed or declared him for its opinion, advice or direction on any present question respecting the management or administration of the property of his ward

(*2*) If the Court considers the question to be proper for summary disposal, it shall cause a copy of the petition to be served on, and the hearing thereof may be attended by, such of the persons interested in the application as the Court thinks fit.

(*3*) The guardian stating in good faith the facts in the petition and acting upon the opinion, advice or direction given by the Court shall be deemed, so far as regards his own responsibility, to have performed his duty as guardian in the subject-matter of the application.

Obligations on guardian of property appointed or declared by the Court.

34. Where a guardian of the property of a ward has been appointed or declared by the Court and such guardian is not the Collector, he shall,—

(*a*) if so required by the Court, give a bond, as nearly as may be in the prescribed form, to the Judge of the Court to enure for the benefit of the Judge for the time being, with or without sureties, as may be prescribed, engaging duly to account for what he may receive in respect of the property of the ward;

(*b*) if so required by the Court, deliver to the Court, within six months from the date of his appointment or declaration by the Court, or within such other time as the Court directs, a statement of the immoveable property belonging to the ward, of the money and other moveable property which he has received on behalf of the ward up to the date of delivering the statement, and of the debts due on that date to or from the ward;

(*c*) if so required by the Court, exhibit his accounts in the Court at such times and in such form as the Court from time to time directs;

(*d*) if so required by the Court, pay into the Court at such time as the Court directs the balance due from him on those accounts, or so much thereof as the Court directs; and

(*e*) apply for the maintenance, education and advancement of the ward and of such persons as are dependent on him, and for the celebration of ceremonies to which the ward or any of those persons may be a party, such portion of the income of the property of the ward as the Court from time to time directs, and, if the Court so directs, the whole or any part of that property.

Suit against guardian where administration-bond was taken.

35. Where a guardian appointed or declared by the Court has given a bond duly to account for what he may receive in respect of the property of his ward, the Court may, on application made by petition and on being satisfied that the engagement of the bond has not been kept, and upon such terms as to security, or providing that any money received be paid into the Court, or otherwise as the Court thinks fit, assign the bond to some proper person, who shall thereupon be entitled to sue on the bond in his own name as if the bond had been originally given to him instead of to the Judge of the Court, and shall be entitled to recover thereon, as trustee for the ward, in respect of any breach thereof.

The Guardians and Wards Act, 1890.

(Chapter III.—Duties, Rights and Liabilities of Guardians.—Sections 36-41.)

Suit against guardian where administration-bond was not taken.

36. (*1*) Where a guardian appointed or declared by the Court has not given a bond as aforesaid, any person, with the leave of the Court, may, as next friend, at any time during the continuance of the minority of the ward, and upon such terms as aforesaid, institute a suit against the guardian, or, in case of his death, against his representative, for an account of what the guardian has received in respect of the property of the ward, and may recover in the suit, as trustee for the ward, such amount as may be found to be payable by the guardian or his representative, as the case may be.

(*2*) The provisions of sub-section (*1*) shall, so far as they relate to a suit against a guardian, be subject to the provisions of section 440 of the Code of Civil Procedure as amended by this Act.

General liability of guardian as trustee.

37. Nothing in either of the two last foregoing sections shall be construed to deprive a ward or his representative of any remedy against his guardian, or the representative of the guardian, which, not being expressly provided in either of those sections, any other beneficiary or his representative would have against his trustee or the representative of the trustee.

Termination of Guardianship.

Right of survivorship among joint guardians.

38. On the death of one of two or more joint guardians, the guardianship continues to the survivor or survivors until a further appointment is made by the Court.

Removal of guardian.

39. The Court may, on the application of any person interested, or of its own motion, remove a guardian appointed or declared by the Court, or a guardian appointed by will or other instrument, for any of the following causes, namely :—

(*a*) for abuse of his trust ;

(*b*) for continued failure to perform the duties of his trust ;

(*c*) for incapacity to perform the duties of his trust ;

(*d*) for ill-treatment, or neglect to take proper care, of his ward ;

(*e*) for contumacious disregard of any provision of this Act or of any order of the Court ;

(*f*) for conviction of an offence implying, in the opinion of the Court, a defect of character which unfits him to be the guardian of his ward ;

(*g*) for having an interest adverse to the faithful performance of his duties ;

(*h*) for ceasing to reside within the local limits of the jurisdiction of the Court ;

(*i*) in the case of a guardian of the property, for bankruptcy or insolvency ;

(*j*) by reason of the guardianship of the guardian ceasing, or being liable to cease, under the law to which the minor is subject :

Provided that a guardian appointed by will or other instrument, whether he has been declared under this Act or not, shall not be removed—

(*a*) for the cause mentioned in clause (*g*) unless the adverse interest accrued after the death of the person who appointed him, or it is shown that that person made and maintained the appointment in ignorance of the existence of the adverse interest, or

(*b*) for the cause mentioned in clause (*h*) unless such guardian has taken up such a residence as, in the opinion of the Court, renders it impracticable for him to discharge the functions of guardian.

Discharge of guardian.

40. (*1*) If a guardian appointed or declared by the Court desires to resign his office, he may apply to the Court to be discharged.

(*2*) If the Court finds that there is sufficient reason for the application, it shall discharge him, and, if the guardian making the application is the Collector and the Local Government approves of his applying to be discharged, the Court shall in any case discharge him.

Cessation of authority of guardian.

41. (*1*) The powers of a guardian of the person cease—

(*a*) by his death, removal or discharge ;

(*b*) by the Court of Wards assuming superintendence of the person of the ward ;

(*c*) by the ward ceasing to be a minor ;

(*d*) in the case of a female ward, by her marriage to a husband who is not unfit to be guardian of her person or, if the guardian was appointed or declared by the Court, by her marriage to a husband who is not, in the opinion of the Court, so unfit ; or,

(*e*) in the case of a ward whose father was unfit to be guardian of the person of the ward, by the father ceasing to be so or, if the father was deemed by the Court to be so unfit, by his ceasing to be so in the opinion of the Court.

(*2*) The powers of a guardian of the property cease—

(*a*) by his death, removal or discharge ;

(*b*) by the Court of Wards assuming superintendence of the property of the ward, or

(*c*) by the ward ceasing to be a minor.

The Guardians and Wards Act, 1890.

(Chapter III.—Duties, Rights and Liabilities of Guardians.—Section 42. Chapter IV.—Supplemental Provisions.—Sections 43-45.)

(3) When for any cause the powers of a guardian cease, the Court may require him or, if he is dead, his representative to deliver as it directs any property in his possession or control belonging to the ward or any accounts in his possession or control relating to any past or present property of the ward.

(4) When he has delivered the property or accounts as required by the Court, the Court may declare him to be discharged from his liabilities save as regards any fraud which may subsequently be discovered.

Appointment of successor to guardian dead, discharged or removed.

42. When a guardian appointed or declared by the Court is discharged, or, under the law to which the ward is subject, ceases to be entitled to act, or when any such guardian or a guardian appointed by will or other instrument is removed or dies, the Court, of its own motion or on application under Chapter II, may, if the ward is still a minor, appoint or declare another guardian of his person or property, or both, as the case may be.

CHAPTER IV.

SUPPLEMENTAL PROVISIONS.

Orders for regulating conduct or proceedings of guardians, and enforcement of those orders.

43. (1) The Court may, on the application of any person interested or of its own motion, make an order regulating the conduct or proceedings of any guardian appointed or declared by the Court.

(2) Where there are more guardians than one of a ward and they are unable to agree upon a question affecting his welfare, any of them may apply to the Court for its direction, and the Court may make such order respecting the matter in difference as it thinks fit.

(3) Except where it appears that the object of making an order under sub-section (1) or sub-section (2) would be defeated by the delay, the Court shall, before making the order, direct notice of the application therefor or of the intention of the Court to make it, as the case may be, to be given, in a case under sub-section (1), to the guardian or, in a case under sub-section (2), to the guardian who has not made the application.

(4) In case of disobedience to an order made under sub-section (1) or sub-section (2), the order may be enforced in the same manner as an injunction granted under section 492 or section 493 of the Code of Civil Procedure, in a case under sub-section (1), as if the ward were the plaintiff and the guardian were the defendant or, in a case under sub-section (2), as if the guardian who made the application were the plaintiff and the other guardian were the defendant.

XIV of 1882.

(5) Except in a case under sub-section (2), nothing in this section shall apply to a Collector who is, as such, a guardian.

Penalty for removal of ward from jurisdiction.

44. If, for the purpose or with the effect of preventing the Court from exercising its authority with respect to a ward, a guardian appointed or declared by the Court removes the ward from the limits of the jurisdiction of the Court in contravention of the provisions of section 26, he shall be liable, by order of the Court, to fine not exceeding one thousand rupees, or to imprisonment in the civil jail for a term which may extend to six months.

Penalty for contumacy.

45. (1) In the following cases, namely:—

(a) if a person having the custody of a minor fails to produce him or cause him to be produced in compliance with a direction under section 12, sub section (1), or to do his utmost to compel the minor to return to the custody of his guardian in obedience to an order under section 25, sub-section (1), or

(b) if a guardian appointed or declared by the Court fails to deliver to the Court, within the time allowed by or under clause (b) of section 34, a statement required under that clause, or to exhibit accounts in compliance with a requisition under clause (c) of that section, or to pay into the Court the balance due from him on those accounts in compliance with a requisition under clause (d) of that section, or

(c) if a person who has ceased to be a guardian, or the representative of such a person, fails to deliver any property or accounts in compliance with a requisition under section 41, sub-section (3),

the person, guardian or representative, as the case may be, shall be liable, by order of the Court, to fine not exceeding one hundred rupees, and in case of recusancy to further fine not exceeding ten rupees for each day after the first during which the default continues, and not exceeding five hundred rupees in the aggregate, and to detention in the civil jail until he undertakes to produce the minor or cause him to be produced, or to compel his return, or to deliver the statement, or to exhibit the accounts, or to pay the balance, or to deliver the property or accounts, as the case may be.

(2) If a person who has been released from detention on giving an undertaking under sub-section (1) fails to carry out the undertaking

The Guardians and Wards Act, 1890.

(*Chapter IV.—Supplemental Provisions.—Sections 46-51.*)

within the time allowed by the Court, the Court may cause him to be arrested and re-committed to the civil jail.

Reports by Collectors and Subordinate Courts.

46. (*1*) The Court may call upon the Collector, or upon any Court subordinate to the Court, for a report on any matter arising in any proceeding under this Act and treat the report as evidence.

(*2*) For the purpose of preparing the report the Collector or the Judge of the subordinate Court, as the case may be, shall make such inquiry as he deems necessary, and may for the purposes of the inquiry exercise any power of compelling the attendance of a witness to give evidence or produce a document which is conferred on a Court by the Code of Civil Procedure.

of 1882.

Orders appealable.

47. An appeal shall lie to the High Court from an order made by a District Court,—

(*a*) under section 7, appointing or declaring or refusing to appoint or declare a guardian; or,

(*b*) under section 9, sub-section (*3*), returning an application; or,

(*c*) under section 25, making or refusing to make an order for the return of a ward to the custody of his guardian; or,

(*d*) under section 26, refusing leave for the removal of a ward from the limits of the jurisdiction of the Court, or imposing conditions with respect thereto; or,

(*e*) under section 28 or section 29, refusing permission to a guardian to do an act referred to in the section; or,

(*f*) under section 32, defining, restricting or extending the powers of a guardian; or,

(*g*) under section 39, removing a guardian; or

(*h*) under section 40, refusing to discharge a guardian; or,

(*i*) under section 43, regulating the conduct or proceedings of a guardian or settling a matter in difference between joint guardians, or enforcing the order; or,

(*j*) under section 44 or section 45, imposing a penalty.

V of 1882.

Finality of other orders.

48. Save as provided by the last foregoing section and by section 622 of the Code of Civil Procedure, an order made under this Act shall be final, and shall not be liable to be contested by suit or otherwise.

Costs.

49. The costs of any proceeding under this Act, including the costs of maintaining a guardian or other person in the civil jail, shall, subject to any rules made by the High Court under this Act, be in the discretion of the Court in which the proceeding is had.

Power of High Court to make rules.

50. (*1*) In addition to any other power to make rules conferred expressly or impliedly by this Act, the High Court may from time to time make rules consistent with this Act—

(*a*) as to the matters respecting which, and the time at which, reports should be called for from Collectors and subordinate Courts;

(*b*) as to the allowances to be granted to, and the security to be required from, guardians, and the cases in which such allowances should be granted;

(*c*) as to the procedure to be followed with respect to applications of guardians for permission to do acts referred to in sections 28 and 29;

(*d*) as to the circumstances in which such requisitions as are mentioned in clauses (*a*), (*b*), (*c*) and (*d*) of section 34 should be made;

(*e*) as to the preservation of statements and accounts delivered and exhibited by guardians,

(*f*) as to the inspection of those statements and accounts by persons interested;

(*g*) as to the custody of money, and securities for money, belonging to wards;

(*h*) as to the securities on which money belonging to wards may be invested;

(*i*) as to the education of wards for whom guardians, not being Collectors, have been appointed or declared by the Court, and,

(*j*) generally, for the guidance of the Courts in carrying out the purposes of this Act.

(*2*) Rules under clauses (*a*) and (*i*) of sub-section (*1*) shall not have effect until they have been approved by the Local Government, nor shall any rule under this section have effect until it has been published in the official Gazette.

Applicability of Act to guardians already appointed by Court.

51. A guardian appointed by, or holding a certificate of administration from, a Civil Court under any enactment repealed by this Act shall, save as may be prescribed, be subject to the provisions of this Act, and of the rules made under it, as if he had been appointed or declared by the Court under Chapter II.

The Guardians and Wards Act, 1890.

(Chapter IV.—Supplemental Provisions.—Sections 52-53.)

X of 1875.

Amendment of Indian Majority Act.

52. In section 3 of the Indian Majority Act, 1875, for the words "every minor of whose person or property a guardian has been or shall be appointed by any Court of Justice, and every minor under the jurisdiction of any Court of Wards," the following shall be substituted, namely,—

"every minor of whose person or property, or both, a guardian, other than a guardian for a suit within the meaning of Chapter XXXI of the Code of Civil Procedure, has been or shall be appointed or declared by any Court of Justice before the minor has attained the age of eighteen years, and every minor of whose property the superintendence has been or shall be assumed by any Court of Wards before the minor has attained that age."

XIV of 1882.

Amendment of Chapter XXXI of the Code of Civil Procedure.

53. Chapter XXXI of the Code of Civil Procedure shall be amended as follows, namely:—

A.—To section 440 of the said Code the following shall be added, namely:—

"If a minor has a guardian appointed or declared by an authority competent in this behalf, a suit shall not be instituted on behalf of the minor by any person other than such guardian except with the leave of the Court granted after notice to such guardian and after hearing any objections which he may desire to make with respect to the institution of the suit, and the Court shall not grant such leave unless it is of opinion that it is for the welfare of the minor that the person proposing to institute the suit in the name of the minor should be permitted to do so"

B.—To section 443 of the said Code the following shall be added, namely:—

"Where an authority competent in this behalf has appointed or declared a guardian or guardians of the person or property, or both, of the minor, the Court shall appoint him or one of them, as the case may be, to be the guardian for the suit under this section unless it considers, for reasons to be recorded by it, that some other person ought to be so appointed."

C.—After section 446 of the said Code the following shall be added, namely:—

"If the next friend is not a guardian appointed or declared by an authority competent in this behalf, and an application is made by a guardian so appointed or declared who desires to be himself appointed in the place of the next friend, the Court shall remove the next friend unless it considers, for reasons to be recorded by it, that the guardian ought not to be appointed the next friend of the minor."

D.—For section 461 of the said Code the following shall be substituted, namely:—

Receipt by next friend or guardian *ad litem* of property under decree for minor.

"461. (*1*) A next friend or guardian for the suit shall not, without the leave of the Court, receive any money or other moveable property on behalf of a minor, either—

(*a*) by way of compromise before decree or order, or

(*b*) under a decree or order in favour of the minor.

"(*2*) Where the next friend or guardian for the suit has not been appointed or declared by competent authority to be guardian of the property of the minor, or, having been so appointed or declared, is under any disability known to the Court to receive the money or other moveable property, the Court shall, if it grants him leave to receive the property, require such security and give such directions as will, in its opinion, sufficiently protect the property from waste and ensure its proper application."

E—For section 464 of the said Code as amended by the Civil Procedure Code Amendment Act, 1888, the following shall be substituted, namely:—

Princes and Chiefs and wards of Court

"464. Nothing in this Chapter applies to a Sovereign Prince or ruling Chief suing or being sued in the name of his State or being sued, by direction of the Governor General in Council or a Local Government, in the name of an agent or in any other name, or shall be construed to affect, or in any way derogate from, the provisions of any local law for the time being in force relating to suits by or against minors or by or against lunatics or other persons of unsound mind."

The Guardians and Wards Act, 1890.

(*The Schedule.—Enactments repealed.*)

THE SCHEDULE.

ENACTMENTS REPEALED.

(*See section 2.*)

Number and year.	Title or subject.	Extent of repeal.
	Acts of the Governor General in Council.	
XIV of 1858	Minors (Madras) . .	The whole.
XL of 1858	Minors (Bengal) . .	So much as has not been repealed.
IX of 1861	Minors . . .	The whole.
XX of 1864	Minors (Bombay) . .	The whole.
XIV of 1869	Bombay Civil Courts Act, 1869.	So much of the last paragraph of section 16 as has not been repealed.
VII of 1870	Court-fees Act, 1870 .	Section 19H, and article 10 of Schedule I.
IV of 1872	Punjab Laws Act, 1872 .	So far as it relates to Act XL of 1858.
XIX of 1873	North-Western Provinces Land-revenue Act, 1873.	Section 258.
XIII of 1874	European British Minors Act, 1874.	The whole.
XV of 1874	Laws Local Extent Act, 1874.	So far as it relates to any enactment repealed by this Act.
XX of 1875	Central Provinces Laws Act, 1875.	So far as it relates to Act XL of 1858.
XVIII of 1876	Oudh Laws Act, 1876 .	So far as it relates to Act XL of 1858.
XIII of 1879	Oudh Civil Courts Act, 1869.	Clause (*i*) of section 25 relating to proceedings under Acts XL of 1858 and IX of 1861.
XIV of 1882	Code of Civil Procedure .	The second paragraph of section 443.
XVIII of 1884	Punjab Courts Act, 1884 .	So much of section 29 as has not been repealed.
XVII of 1885	Central Provinces Government Wards Act, 1885.	Section 5.
XII of 1887	Bengal, North-Western Provinces and Assam Civil Courts Act, 1887.	Clause (*b*) of section 23, sub-section (*2*).
XI of 1889	Lower Burma Courts Act, 1889.	The words "to be and" in section 99, sub-section (*1*), and section 102, so far as it relates to Act XIII of 1874.
	Madras Regulations.	
V of 1804	Court of Wards . .	Section 20 and so much of sections 21 and 22 as relates to persons and property of minors not subject to the superintendence of the Court of Wards.
X of 1831	Minors' Estates . .	Section 3.
	Regulations under the Statute 33 Victoria, Chapter 3.	
IX of 1874	Arakan Hill District Laws.	So far as it relates to Acts XL of 1858 and IX of 1861.

S. HARVEY JAMES,
Secretary to the Government of India.

[REGISTERED No 29.]

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Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Divn. 1	Burdwan March 22, '90	0·38	Weather—getting warmer. Prospects of crops continue favourable. Sugarcane is being pressed, and wheat and barley harvested. Prices of common rice :— Srs. Burdwan ... ... 18 Culna ... . 15 Ranigunge ... ... 19½ } per rupee.
	Ranigunge ...	0·33	
2	Bankoora ,, 22, '90	Nil	Weather—hot. Pressing of sugarcane still continues. Standing crops, such as cotton and *khusta til*, are doing well. Common rice selling at 21 seers per rupee at Sudder and 20 seers at Bishenpore.
3	Birbhum ,, 22, '90	Nil	Weather—hot. There are now no crops to report on except wheat, which is very well. Price of common rice from 18 to 20 seers per rupee.
	Rampore Haut ...	0·33	
4	Midnapur ,, 22, '90	0·46	Weather—seasonable Days hot. The rain has softened the ground for ploughing operations. Indigo doing well. Prices of common rice :— Srs. Sudder ... ... 19 Contai .. .. 19 Tamluk ... ... 16 Ghatal .. .. 18 } per rupee
5	Hooghly ,, 22, '90	0·34	Weather—seasonable with clouds and southerly winds. Prospects of crops good. Prices of common rice :— Srs. Sudder ... ... 12½ Serampore ... ... 16 Jehanabad ... ... 17 } per rupee
	Jehanabad ...	0 32	
	Howrah ,, 22, '90	Nil	Weather—days warm, but nights cool. Prospects of crops good, but rain wanted.
	Uluberia ..	0·05	
	Central Districts.		
Presidency Divn. 6	24-Perghs. March 22, '90	Nil	Weather—dry and hot. Prospects good on the whole, but rain is wanted for the benefit of such crops as there are on the ground, especially *boro* rice in the Diamond Harbour subdivision. Lands are being prepared for *aus* rice in parts of the district. Price of common rice 14 to 15 seers per rupee.
7	Nuddea ,, 22, '90	Nil	Weather—cloudy. Harvesting of wheat, barley, gram, linseed, *masuri*, and sugarcane going on. Ploughing for early rice begun. Rain needed
	Kooshtea ...	0 22	
8	Khoolna ,, 22, '90	0·05	Weather—seasonable. Condition of *boro* and *rabbi* crops good, but some rain wanted.
9	Jessore ,, 22, '90	Nil	Weather—hot and cloudy. Rain wanted for cultivation. Harvesting of *rabbi* crops nearly over Outturn good in Jhenidah and Bongong, but below the average in Magura and Narail.
10	Moorshedabad ,, 22, '90	Nil	Weather—getting hot Harvesting of *rabbi* progressing favourably.
	Kandi ...	0·85	
Rajshahye Divn. 11	Dinagepur ,, 22, '90	Nil	No rain, but clouds floating about. Strong wind prevails Weather rather hot. Ploughing for *bhadoi* going on. Sowing of jute and planting of sugarcane cuttings commenced. Prices stationary
12	Rajshahye ,, 22, '90	Nil	Weather—getting very hot every day. Rain much wanted. Tobacco is yielding only an 8-anna outturn all round *Rabbi* crops giving a fair return, about 12 annas. Agricultural operations retarded for want of rain.
	Nattore ...	0·02	
	Nowgong ..	0·10	
13	Rungpur ,, 22, '90	0·04	Storms of wind and rain on the 20th, but their incidence was partial. The rain of the 20th and 21st has done great good where it has fallen in sufficient quantity. *Aus* rice and jute sowings are progressing rapidly. More general rain is urgently wanted or a drought must occur.
14	Bogra ,, 22, '90	0·81	Weather—seasonable. Sowing of *aus* and other early crops has commenced State of standing crops good. *Khesari*, *masur*, and *cheena* being reaped. Sugarcane being cut. Common rice selling at 18 seers per rupee.
	Nowkhilla ...	1·54	
15	Pubna ,, 22, '90	0·43	Local showers in many places. *Cheena* and *kaon* crops and ploughing operations benefited by the rain. Prices somewhat high.
16	Darjeeling ,, 22, '90	0·06	Weather—getting daily warmer. Wheat and barley doing well. Prospects generally good.
17	Julpigoree ,, 22, '90	Nil	Weather—getting hot. High west wind prevailing. Land for *bhadoi* crops being prepared. Rain wanted. Winter crops being reaped; average outturn expected. No significant change in prices of food-grains.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca March 22, '90	2·52	Weather—warm during the day time. Heavy rain in the Sudder subdivision. Cutting of sugarcane and pulses nearly finished. Rain has done good to *boro* paddy and other standing crops. Sowing of jute and *aus* paddy going on. Fodder is available. Common rice 13 to 16 seers per rupee.
19	Furreedpur ,, 22, '90	2·33	Weather—seasonable. Rain has improved the condition of the standing crops. Land is being sown with *aus* and jute. Prices of common rice :— Sudder ... ... 14 Srs. Goalundo ... ... 16 Madaripur ... ... 15 } per rupee.
20	Backergunge ,, 22, '90	0·32	Weather—hot and cloudy with occasional thunderstorms. Prospects of *rubbi* crops fair. Rice selling at 13 seers per rupee.
21	Mymensingh ,, 22, '90	2·16	Weather—seasonable. Heavy rain on the 17th and 19th. Rain of the 17th was accompanied by hail. Prospects of crops good. Rain has done much good to crops, and has facilitated cultivation. Common rice sells at 13½ seers per rupee.
Chittagong Divn 22	Chittagong ,, 22, '90	2·22	Weather—seasonable. No agricultural operations going on at present. State of chillies fair. Common rice selling at 17 seers per rupee.
23	Noakholly ,, 22, '90	3·06	Weather—cloudy and rainy. Harvesting of *rubbi* crops nearly completed. Preparation of soil for *aus* progressing. Rain has done much good. Hail did some damage in Sundip.
24	Tipperah ,, 22, '90	0·07	Weather—hot and cloudy with high winds. *Boro* paddy thriving. Land being prepared for jute, *aus*, and *amun*.
25	Chittagong Hill Tracts. ...	...	Report not received.
	Hill Tipperah ,, 21, '90	3·27	Weather—hot and cloudy. Heavy downpour on 18th. Cultivation of lands going on for *aus* paddy. *Jums* still being cut.
BEHAR.			
Patna Divn. 26	Patna ,, 22, '90	Nil	Weather—hot. Harvesting of *rubbi* crops continues. Collection of opium almost finished. Prospects favourable. Prices of food-grains almost stationary.
27	Gya ,, 22, '90	0·15	Weather—hot Harvesting of *rubbi* crops continues. Extraction of opium nearly finished. Prices of food-grains stationary.
28	Shahabad ,, 22, '90	Nil	Weather—occasionally cloudy Winds variable in direction and intensity. *Rubbi* still being harvested. Transplanting of sugarcane going on. Opium harvest completed. Prices generally stationary, but falling in Sasseram.
29	Durbhunga ,, 22, '90	Nil	Strong winds prevailing. Harvesting of *rubbi* continues. Paddy and *mung* being sown. Indigo germinating well. Prices almost stationary.
30	Muzufferpur ,, 22, '90	Nil	Weather—warm and occasionally cloudy. *Rubbi* harvest continues. Indigo doing well. Opium outturn will probably be somewhat less than the average. About ¼ of the rice lands has been sown. *Mung* and *cheena* also being sown.
31	Sarun ,, 22 '90	Nil	Weather—warm, overcast at times. *Rubbi* harvesting nearly completed. Wheat about a 16-anna crop. Sugarcane sowings probably more than normal, as prices are good. Poppy prospects not very good. Indigo prospects indifferent.
32	Chumparun ,, 22, '90	Nil	Weather—clear; getting hot; west wind blowing. Reaping of *rubbi* and collection of opium continue. Paddy and *cheena* being sown. Price of common rice 18 seers per rupee at Motihari.
Bhagulpore Divn. 33	Monghyr ,, 22 '90	.	Weather—getting hot; cloudy at times. A strong west wind with a light shower on the night of the 21st. Harvesting of *rubbi* in full progress; outturn good Prices stationary.
34	Bhagulpur ,, 22 '90	Nil	Weather—seasonable. *Rubbi* being harvested. Rain wanted for preparing lands for *bhadoi*.
35	Purneah ,, 22, '90	Nil	Strong westerly wind. Harvesting of *rubbi* crops progressing satisfactorily. Cultivation for *bhadoi* crops proceeding. Westerly winds doing some injury to young indigo. A good mango crop expected.
36	Maldah ,, 22, '90	0·01	Weather—getting very hot. Strong west wind; occasionally cloudy, but no rain. Harvesting of *rubbi* crops continues. Rain much wanted for *boro* paddy. State of mulberry not favourable. Common rice selling at an average of 17½ seers per rupee.
37	Santhal Pergha Jamtara ,, 15, '90 ...	0·02 0·5	Weather—seasonable. *Rubbi* harvest still continues. In Deoghur rain wanted for sugarcane. Mango crop promises well. *Mohua* in flower. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Divn. 38	Cuttack March 22, '90	1·31	Weather—mornings foggy, days warm. Tobacco being reaped; outturn estimated at 12 annas Harvesting of mustard completed, the average outturn being estimated at 8 annas. Price of coarse rice has slightly risen during the week.
39	Pooree ...	...	Report not received.
40	Balasore „ 22, '90	0·05	Weather—seasonable. There are few crops on the ground The outturn of sugarcane has been from 12 to 13 annas.
CHOTA NAGPORE			
South-West Frontier Agency.			
Chota Nagpore Divn. 41	Hazaribagh March 22, '90	Nil	Weather—seasonable. Crops doing well. Sugarcane being transplanted *Rabar* being harvested. Exudation of opium not so good as was expected.
42	Lohardugga „ 22, '90	0·12	Weather—days getting warmer, but nights cool. Harvesting of *rabbi* crops continues. Prospects of crops fair in Palamow Fields for sugarcane plantations are being prepared everywhere. Mango fruit forming. *Mohua* being gathered.
43	Singbhoom „ 22, '90	0·11	Thunderstorms accompanied by slight rain. Weather getting warm. *Mohua* damaged to some extent in Dhulbhoom pergunnah; other crops favourably reported on.
44	Manbhoom „ 22, 90	0 19	Weather—seasonable. Sugarcane still being pressed; probable outturn 16 annas. Spring crops doing well. Prospects of *mohua* and mango crops good Coarse rice selling at from 20 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 25th March, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH MARCH 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 0	14 8	14 8	.	...	...	13 8	14 4	15 0	16 14	16 11	17 10	...	...	...
2	Bankoora	15 0	15 0	12 12	17 0	16 0	16 0	17 8	18 0	17 8	20 0	20 0	20 0		.	...
3	Beerbhoom ...	15 0	15 0	11 4	...	...	...	13 8	13 8	13 8	18 0	18 0	16 8	...	...	...
4	Midnapore	13 0	13 0	10 0	...	...	...	15 8	16 0	16 0	20 0	20 0	20 0	...		...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	14 0	14 0	13 0	.	.	...
	Howrah	...	...	...	...	...	...	11 8	11 8	12 0	14 8	14 8	16 0		...	...
	Central Districts.															
	Calcutta	13 6	13 10	13 0	18 2	17 1	17 11	9 1	9 3	10 0	18 14	14 1	14 10	21 5	21 5	17 9
6	24-Pergunnahs	14 8	14 8	14 0	20 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	16 8	...	...	...
7	Nuddea	15 0	15 0	16 0	17 12	17 12	22 13	12 13	12 5½	13 5½	14 9	14 9	16 4	...	.	...
8	Khoolna ...			...				12 8	14 0	14 0	14 0	16 0	16 0	...	...	...
9	Jessore	12 12	12 12	13 0		.		9 0	9 0	13 0	15 4	16 0	16 0	...		...
10	Moorshedabad	16 0	16 0	14 0	..		...	12 0	13 0	14 0	16 0	17 0	17 0	..		...
11	Dinagepore	19 4	19 4	11 4	20 10	..	9 9	15 0	15 0	17 0	19 0	19 0	19 8	...	.	...
12	Rajshahye	16 8	16 8	15 0	26 4	26 4	37 8	13 8	13 8	13 8	15 12	15 0	15 0	..	.	...
13	Rungpore	14 8	14 8	12 4			...	9 6	9 7	10 8	14 8	14 8	16 0	...	..	...
14	Bogra	12 0	Best. 12 0 Com. 16 8	13 8	...	...	...	12 0	12 0	13 8	18 0	18 0	19 8	...	...	...
15	Pubna	13 8	17 4	19 8				6 12	6 14	8 0	14 4	16 14	18 0		.	...
16	Darjeeling	10 0	10 0	10 0	9 0	9 0	10 0	5 0	5 0	6 0	12 0	12 0	12 0	.	...	...
17	Julpigoree	13 0	14 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	15 0	15 0	17 8			...
	Eastern Districts.															
18	Dacca	13 0	13 0	15 8	16 0	16 0	26 0	14 0	13 0	16 0	15 0	14 0	17 0	...	...	...
19	Furreedpore	12 0	12 0	16 0	14 0	14 0	20 0	10 0	10 0	9 0	15 0	14 0	16 0	..	...	...
20	Backergunge .		.	..	.	.	.	12 4	12 4	13 4	13 12	13 12	14 12		..	...
21	Mymensingh	11 8	11 8	10 0	.	..	.	10 0	10 8	13 0	13 0	14 0	18 0	.	...	...

A In subdivisions retail prices of salt per rupee are :—Cuina 10 seers, Kutwa 10 seers 6 chittacks, and Ranaghat 9½ seers.
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghattal 10 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10 seers and Jehanabad 10 seers.
E In subdivisions retail prices of salt per rupee are :—Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Koushtea 10 seers, Meherpore 10½ seers, Chooadanga 9 seers, and Ranaghat 9 seers 2 chittacks.
G In subdivisions retail prices of salt per rupee are :—Satkhira 10 seers and Bagirhat 8 seers.
H In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are :—Lallagh 10½ seers, Jungipore 10 seers, and Kandi 10½ seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th March 1890.

INDIAN-CORN OR MAIZE (*Zea Mays.*)			ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
...	...	...	20 0	23 0	19 0	90 0	100 0	107 0	A 10 0	10 0	10 2	3 11 0	3 10 6	3 11 6	Burdwan.
35 0	35 0	20 0	20 0	20 0	18 0	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.
...	..	..	19 8	12 0	...	160 0	160 0	160 0	B 10 8	10 8	9 12	3 10 0	3 10 0	3 13 0	Beerbhoom.
...		.	14 0	13 8	20 0	160 0	160 0	160 0	C 10 3	10 3	10 4	3 14 6	3 14 6	3 14 0	Midnapore.
...	..		11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.
...	.	..	13 4	13 4	13 0	100 0	100 0	100 0	10 0	10 0	10 8	3 12 0	3 12 0	3 11 0	Howrah.
															Central Districts
18 5	18 12	15 10	17 7	17 8	16 8	100 0	100 0	98 2	10 4	10 2	10 5	3 9 8	3 10 2	3 9 6	Calcutta.
	.	..	18 0	18 0	18 8	100 0	100 0	100 0	E 10 0	10 0	10 4	3 9 0	3 9 6	3 10 0	24-Pergunnahs.
.	.	.	17 12	20 0	20 0	...	...	...	F 9 13	9 2	9 2	3 13 0	4 0 0	3 14 0	Nuddea.
...		.	.		.	160 0	160 0	160 0	G 9 0	9 8	9 2	4 4 0	4 4 0	4 0 0	Khoolna
...	.	.	16 0	13 0	22 0	160 0	160 0	160 0	H 9 2	9 4	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	..	18 0	19 0	22 0	200 0	200 0	200 0	I 10 12	10 12	10 0	3 12 0	3 12 0	4 0 0	Moorshedabad.
...	...		19 6	13 0	12 12	160 0	160 0	160 0	J 9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	Dinagepore.
...	.		20 4	20 0	24 9	240 0	240 0	240 0	K 9 0	9 0	9 9	4 2 8	4 2 8	4 0 0	Rajshahye.
...	.	..	9 7	9 7	13 0	100 0	100 0	120 0	L 8 14	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.
...	.	..	...	..	...	90 0	90 0	96 0	9 0	9 0	8 4	4 4 0	4 4 0	4 5 4	Bogra.
..	...	..	20 0	20 10	23 4	240 0	240 0	240 0	M 10 0	9 6	9 2½	4 0 0	4 0 0	4 0 0	Pubna.
16 0	16 0	8 0	8 8	8 0	..	120 0	120 0	120 0	8 0	8 0	8 0	N 5 0 0	5 0 0	..	Darjeeling.
...	..	..	13 0	12 0	9 0	128 0	128 0	128 0	O 9 0	9 0	9 0	4 2 0	4 2 0	4 2 0	Julpigoree.
															Eastern Districts.
...	...	...	14 0	14 0	16 0	160 0	160 0	120 0	P 9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	Dacca.
12 0	12 0	20 0	11 0	10 0	12 0	120 0	120 0	120 0	9 0	9 0	9 0	4 2 0	4 4 0	4 0 0	Furreedpore.
			Khesari husked.												
..	.	..	11 4	11 0	13 4	120 0	120 0	120 0	Q 10 2	10 5	10 10	3 15 0	3 14 0	3 12 0	Backergunge.
..	..	...	11 0	14 0	....				R 9 0	9 0	9 8	4 5 0	4 4 0	4 4 0	Mymensingh.

J In Thakurgaon subdivision retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are:—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
L In subdivisions retail prices of salt per rupee are:—Gaibanda 8½ seers, Nilphamari 9 seers.
M At 8 rajgunge retail price of salt 9½ seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O At Fallacotta in the Alipore subdivision retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are:—Manikgunge 8 seers, Moonsheegunge 8½ seers, and Narsingunge 10 seers.
Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Perosepore 9 seers, and Bhola 8 seers.
R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Jamalpore 8 seers, Sherepore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS	WHEAT			BARLEY			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ..	11 0	11 0	11 0	...	..	...	12 0	12 0	12 0	16 8	15 10	15 0		...	...
23	Noakholly ..	...	...	...	.	...	...	15 0	14 0	14 0 Chaplash	16 0	16 0	15 0	...	...	...
24	Tipperah .	12 4½	12 5	12 8			.	Gobindabhag 10 0	10 0	16 0	14 9	14 9½	18 0	.	..	...
25	Chittagong Hill Tracts				..	..	.	11 7	11 7	11 6½	13 5	13 5	12 10½	...	...	...
	Hill Tipperah ..	6 0	6 0	6 0		.	.	9 0	9 0	9 0	15 0	15 0	18 0	..	..	...
	BEHAR.															
26	Patna	16 8 / 13 8	Red 17 8 / White. 15 8	.. 18 0	23 8	25 0	22 0	10 8	10 8	11 0	19 8	19 8	16 8	22 0	22 0	25 0
27	Gya ..	16 0	15 0	15 8	20 4	22 0	21 0	11 0	11 8	9 0	17 0	17 0	15 0	...	...	...
28	Shahabad ..	14 0	15 0	14 8	20 0	18 0	25 0	9 0	8 0	9 0	16 0	16 0	15 0	20 0	21 0	20 0
29	Durbhunga ..	15 6	14 4	14 4	22 0	22 0	...	11 0	11 0	10 0	18 8	18 11	14 4	...	...	...
30	Mozufferpore	13 0	15 0	13 0	.	20 0	...	9 0	9 0	9 8	16 0	17 0	13 0	...	..	...
31	Sarun ..	15 8	15 0	16 0	20 0	...	25 8	9 4	9 4	8 12	16 14	16 13	14 4	...	...	...
32	Chumparun ...	13 8	14 0	13 0	30 0	28 0	14 0	8 0	8 0	7 0	17 0	18 0	13 0	...	...	...
33	Monghyr ..	17 13	18 6	15 12	19 11	18 5	26 4	15 12	15 12	12 9	16 12	17 5	15 8	...	...	...
34	Bhagulpore ...	16 6	16 6	15 12	20 3	20 3	15 2	Old. 11 6 / New 15 2	11 6 / 15 2	13 14	Old 13 14 / New. 17 11	13 14 / 17 11	15 2	...	...	...
35	Purneah ...	14 0	18 0	13 0	...	...	11 0	18 0	18 0	15 0	19 0	19 0	16 0	...	...	...
36	Maldah ...	19 0	18 0	13 0	...	...	.	11 0	14 0	10 0	17 0	17 0	17 0	...	...	...
37	Sonthal Perghs	13 0	13 0	11 4	..	...	..	13 0	13 0	14 0	16 0	17 0	16 8	...	..	...
	ORISSA															
38	Cuttack ..	13 2	13 2	13 2	..	...	...	10 8	10 8	11 13	19 11*	21 0	17 1	...	...	...
39	Pooree ..	11 13	13 2	11 13	..	...	...	15 12	17 1	11 13	22 10	23 10	17 1	...	...	...
40	Balasore ...	15 0	15 0	13 0	13 0	13 0	13 0	13 0	13 0	12 0	21 0	21 0	19 0	..	...	...
	CHOTA NAGPORE															
	South-West Frontier Agency															
41	Hazaribagh ...	13 0 New. 16 0	13 0	17 0	13 0	14 0	...	10 0	10 0	8 0	17 0	17 0	16 0	...	...	...
42	Lohardugga ..	14 0 / 9 6	Red 13 8 / White. 10 12	14 0 ..	24 0	15 0	...	14 0	15 0	13 0	Middling. 15 0 / 19 0	17 12 / Coarse 20 0	14 0	...	...	...
43	Singbhoom ..	10 0	10 0	10 0	10 0	10 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...
44	Manbhoom ..	14 8	13 5	14 0	...	.	...	13 0	14 0	15 0	20 0	22 0	21 8	...	...	...

* Price of common rice at Jajpore and Kendrapara 23 seers 10 chittacks per rupee

S At Cox's Bazar retail price of salt 8 seers per rupee

T At Fenny Hât retail price of salt 8 seers per rupee.

U In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.

V At Tajpore retail price of salt 11 seers per rupee

W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 25th March 1890.

Station Bazars of the Districts of Bengal on the 15th March 1890—(concluded).

Indian-corn or Maize (*Zea Mays*)			Arhar or thur Cadjan Pea (*Cajanus indicus.*)			Firewood.			Salt			Wholesale prices per maund of 40 seers. Salt			Districts
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return	Next preceding return.	Corresponding return of last year	Present return	Next preceding return	Corresponding return of last year.	
															Eastern Districts—concluded
S. Ch	S. Ch	S. Ch	S. Ch	S. Ch	S. Ch	S. Ch	S. Ch	S. Ch	S Ch	S. Ch	S Ch	Rs a p	Rs a p.	Rs a p.	
...	..	..	...	..	..	110 0	110 0	108 0	9 S 0	9 0	9 0	4 0 0	4 4 0	4 4 0	Chittagong
...	...		8 0	8 0	8 0		.	.	9 T 0	9 0	8 0	4 0 0	4 0 0	4 8 0	Noakholly
.	...		8 0	8 6½	9 0	.	.		9 6½	9 6½	8 0	4 4 0	4 4 0	4 6 0	Tipperah
.	...	..	..	. .	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts
..	...	..	8 0	8 0	8 0	..	...	..	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR
24 0	25 0	22 8	..	25 0	25 0	130 0	130 0	130 0	10 0	10 0	10 0	3 13 9	3 14 0	3 12 6	Patna.
...	...	...	21 0	21 0	19 0	160 0	160 0	200 0	9 2	9 2	8 12	4 2 0	4 2 0	4 2 9	Gya.
..	...	..	21 0	20 0	14 0	160 0	160 0	160 0	10 U 0	10 0	10 0	3 14 0	3 15 0	4 0 0	Shahabad.
24 3	23 1	19 12	20 14	17 9	19 12	160 0	160 0	176 0	11 V 0	11 0	11 0	3 8 0	3 10 3	3 10 2	Durbhunga
22 8	23 0	19 0	18 0	18 0	20 0	160 0	160 0	160 0	10 W 0	10 0	10 0	3 12 0	4 0 0	3 12 0	Mozufferpore.
22 8	22 0	24 8	21 4	19 8	21 4	160 0	160 0	180 0	9 12	9 12	10 0	4 0 0	4 0 0	3 15 0	Sarun.
25 0	24 8	18 0	17 8	17 0	22 0	160 0	160 0	160 0	10 X 0	9 8	9 8	4 0 0	4 2 0	4 1 0	Chumparur.
21 0	24 2	16 12	23 1	18 5	21 0	147 0	147 0	147 0	9 Y 7	9 15	9 8	4 2 0	4 0 0	4 0 0	Monghyr.
22 11	22 11	17 10	16 6	16 6	16 6	176 12	176 12	151 0	10 1	10 1	10 1	3 15 6	3 15 6	3 14 0	Bhagulpore
..	...	10 0	16 0	16 0	16 0	130 0	130 0	200 0	9 Z 0	9 0	9 4	4 7 0	4 7 0	4 5 0	Purneah
...	...	...	...	.	.	160 0	120 0	120 0	9 8	9 0	9 8	3 14 0	4 1 0	4 0 0	Maldah
25 0	25 0	18 0	20 0	20 0	22 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Sonthal Pergha
															ORISSA.
...	..	.P	16 6	14 7	15 12	80 0	80 0	80 0	11 0	11 0	12 0	3 12 0	3 12 0	3 3 0	Cuttack.
...	...		14 7	15 12	14 7	80 0	80 0	80 0	11 Z1 13	11 13	11 13	3 6 0	3 6 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 Z2 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Balasore.
															CHOTA NAGPORE
															South-West Frontier Agency
22 0	21 0	18 0	16 0	15 0	17 0	320 0	320 0	320 0	8 0	8 0	8 0	4 4 0	4 6 0	4 6 0	Hazaribagh.
34 0	32 0	17 8	Small 24 0 / Large. 0 0	19 0 ..	16 0	120 0	120 0	140 0	9 0	8 8	8 8	4 6 0	4 5 0	4 8 0	Lohardugga.
16 0	16 0	...	14 0	14 0	15 0	240 0	240 0	200 0	8 8	8 8	7 0	4 12 0	4 12 9	5 8 0	Singbhoom.
32 0	34 0	32 0	20 0	20 0	24 0	200 0	200 0	200 0	9 Z3 2	9 2	9 0	4 0 0	4 0 0	4 2 6	Manbhoom.

X At Bettiah retail price of salt 10 seers per rupee.
Y In subdivisional retail prices of salt per rupee are:- Begusarai 9¼ seers and Jamui 9 seers
Z At Kishongunge retail price of salt 8 seers per rupee.
Z1 In Khoordah subdivision retail price of salt 10¼ seers per rupee.
Z2 At Bhudruck retail price of salt 9 seers per rupee.
Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information

P NOLAN,
Secy to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sal

Number.	MARTS.	WHEAT			BARLEY.			RICE, BEST SORT			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return	Next preceding return.	Corresponding return of last year.	Present return	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.	R. A P.
1	Calcutta ..	2 11 10	2 11 0	2 13 3	1 15 8	2 1 10	2 0 3	4 2 8	4 1 3	3 12 2	2 9 6	2 9 2	2 7 9
2	Serajgunge ...	2 4 0	2 4 0	2 4 0	...	...	...	4 8 0	3 12 0	3 8 0	2 10 0	2 12 0	2 6 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	1 8 0	2 13 0	3 0 0	2 8 0	2 10 0	2 13 0	2 5 6
4	Naraingunge	...	...	..	...	...	...	3 0 0	3 0 0	2 8 0	2 12 0	2 12 0	2 4 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...		3 4 0	3 4 0	3 4 0	2 7 7	2 8 6	2 10 0
6	Patna ...	Red. 2 8 6 / White 2 15 0	2 4 0 / 2 8 0	... / 2 3 0	1 10 6	1 9 0	1 12 0	3 12 6	3 12 0	3 8 0	1 15 0	2 0 0	2 6 6
7	Balasore ...	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 11 0	1 11 0	1 13 0
8	Pooree ...	...	...	...	...	...	.	...	...	...	1 11 0	1 12 0	2 2 6
9	Cuttack ...	3 0 0	3 0 0	3 0 0	...	...	...	3 10 0	3 10 0	3 4 0	2 0 0	1 11 0	2 0 0

CALCUTTA,
The 25th March, 1890.

in the undermentioned Marts of Bengal on the 15th March 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum*)			INDIAN-CORN OR MAIZE (*Zea Mays*)			ARHAR OR THUR, CADJAN PEA, (*Cajanus indicus*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return	Next preceding return.	Corresponding return of last year	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R A. P	R. A. P	R A. P	R A. P	R A. P	R A P	R A. P.	R A P	R A. P	R A P	R A P	R A. P	R A P.	R A P	R. A P	
2 2 6	2 2 3	2 4 6	1 14 11	1 14 6	2 5 0	2 1 1	2 1 2	2 2 10	0 5 6	0 5 6	0 6 0	3 9 8	3 10 2	3 9 6	Calcutta.
2 2 0	2 2 0	2 9 0	...	...	..	...	...	...	..	...	...	3 14 0	3 12 0	3 13 0	Serajgunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca
2 12 0	3 0 0	3 0 0	...	...	...	3 0 0	3 2 0	3 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 8 0	3 12 0	Naraingunge.
3 4 0	3 0 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	4 0 0	4 4 0	4 0 0	Chittagong.
1 10 6	1 8 6	1 9 0	1 10 3	1 9 0	1 11 6	.	1 9 0	1 9 0	0 5 0	0 5 0	0 5 0	3 13 9	3 14 0	3 12 6	Patna
2 12 0	2 12 0	2 14 0	...	...	..	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Balasore.
...	...	...	..	..	..	..	..	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree
2 5 0	2 12 0	1 11 0	...	...	...	2 0 0	2 12 0	2 5 0	0 8 0	0 8 0	0 8 0	3 12 0	3 13 0	3 3 0	Cuttack.

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P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Ben

STATION OBSERVATIONS

Meteorological Division	District	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week	Date	Lowest during week.	Date.	Mean maximum temperature	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean R. H.
Orissa.	Puoree ...	Puoree ..	29·814	29 843	—	SW	430	90 7	17, 20 Mar	70 1	16th Mar.	86·1	76·3	81 2	—	80
		Gopalpore	29 813	29 840	—·084	S.-wly	128 9	8 7	15, 18 ,,	73 3	15th ,,	8[illegible]	77 0	81 6	+1·6	82
		False Point ..	29 810	29 841	—·105	SW	370 0	85 0	15th ,,	72·1	16th ,,	8[illegible]	75 8	81 8	+0 7	81
	Cuttack	Cuttack ...	29 764	29 846	—·085	South-westerly	97·1	97·9	21st ,,	70·8	16th ,,	93 6	75 1	84 4	—0·8	70
	Balasore .	Balasore ..	29 764	29 825	—·111	South westerly	205·5	92 4	16th, 18th Mar.	70 9	15th ,,	90 5	74 0	8[illegible]	+1 3	77
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29 817	29 843	—·091	SSW	480 0	87 7	16th, 2 at Mar.	75·6	16th ,,	86 4	77 6	82 1	+0 1	80
	Midnapore	Midnapore	29 679	29 833	—·101	S	274 3	97 3	18th, 19th Mar	70 2	15th ,,	96 3	72 0	8[illegible]	+1 0	[illegible]
	24-Pergunnahs .. / Howrah .. . / Hooghly	Calcutta	29 803	29 834	—·106	SW	158·0	93 5	21st ,,	69 7	16th ,,	90 9	73 2	82 1	+1 4	781
	Burdwan .	Burdwan	29·706	29 808	—·119	SW	83 2	97 6	18th ,,	65 4	16th ,,	95 0	71 1	8[illegible]	+1 4	757
	Bankoora .. .	Bankoora	29·692	29·799	—·112	W	85 7	97 6	21st ,,	68 7	18th ,,	95·8	69 9	8[illegible]	+1 0	756
	Beerbhoom ... . / West Burdwan	Ranegunge	29 694	29·834	—·093	Calm & NW	55 9	98 1	18th ,,	65·4	16th ,,	96 3	69 0	8[illegible]	+1 4	749
	Moorshedabad	Berhampore	29 749	29 817	—·105	Southerly	113 4	97 2	18th ,,	64 7	16th ,,	94 2	68 0	81 4	+1 8	746
	Nuddea ...	Krishnaghur	29 774	29·841	—·084	South-westerly	130 6	97 0	19th ,,	62·0	16th ,,	95 3	70 8	8[illegible]	+3 7	777
	Jessore .. / Khoolna ..	Jessore ..	29 793	29 827	—·103	SW	64·9	93 3	19th ,,	60 8	16th ,,	93·2	75 0	84 1	+3 0	783
East Bengal.	Chittagong ...	Chittagong	29 790	29 861	—·091	SE & SSE	147 6	87 1	16th ,,	65·0	16th ,,	81 3	70 4	77 4	+0 2	767
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge .	Barrisal .	29 873	29·847	—·084	S	137 7	90·3	19th ,,	70 4	16th ,,	88·2	72 5	80 4	+1 1	784
	Noakholly	Noakholly ...	29 832	29·876	—·074	S	130 2	88·5	19th ,,	68 8	16th ,,	85 6	71 9	78 8	+1·1	792
	Furreedpore . .	Furreedpore..	29 803	29·844	—·078	S	149 0	86 5	19th ,,	64 9	16th ,,	85 7	72 5	79 9	+1 4	805
	Dacca .	Dacca	29 817	29 840	—·095	S	177 3	92 6	18th ,,	65 2	17th ,,	90 5	70 1	80 3	+0 8	764
	Commillah	Commillah	29 825	29 901	—·079	SW	240 4	90 4	21st ,,	65 4	16th ,,	87 5	71 1	79 3	+1 2	769
	Mymensingh	Mymensingh	29·782	29·842	—·096	South-easterly.	142 7	89 6	18th ,,	65·3	16th, 18th Mar.	85 5	67 8	76 6	+1 5	714
North Bengal.	Bogra	Bogra	29 738	29·800	— 097	SE	128 0	94·5	18th ,,	64 1	16th ,,	92 1	68 9	79 5	+2·7	718
	Pubna ...	Serajgunge ..	29 773	29 821	— 098	E	99 9	93·4	18th ,,	69 3	20th ,,	90 3	68 8	77 6	+0 3	733
	Rajshahye	Rampore Beaulea.	29 743	29 814	— 093	SE	88 9	94 0	18th ,,	63 9	16th ,,	92 3	67 8	80·1	+2 5	744
	Maldah ...	Maldah † .	29·7.5	29 817	—·063	E	85·4	94 7	20th ,,	62 8	17th ,,	93 2	65 5	79 4	+3 5	765
	Dinagepore ...	Dinagepore	29 709	29 853	— 105	NE	141 9	92 1	16th, 18th Mar	64 2	16th, 19th Mar.	91 0	6[illegible]	78 4	+2 5	725
	Rungpore ..	Rungpore	29 722	29 850	—·071	E	39 6	89 5	16th ,,	69 5	16th ,,	88 2	65 5	76 9	+2·7	801
	Julpigoree ... . / Cooch Behar .	Julpigoree .	29·639	29 856	—·091	E & NE	264 5	85·3	15, 16 & 18 to 21 Mar	58 9	16th, 17th Mar.	88 1	61 91	74 91	+1 91	679
	Darjeeling Hill Tracts ..	Darjeeling .	?	—	?	?	?	57 9	15th ,,	39 6	16th ,,	65 1	42·0	48 6	—1 6	?
North Behar.	Purneah / North Bhagulpore	Purneah	29 698	29 838	—·096	North-easterly	91·3	91 7	20th ,,	60·5	16th ,,	9[illegible]	62 5	76 3	+0 5	734
	Monufferpore	Monufferpore	Observations suspended.													
	Durbhunga ...	Durbhunga ..	29 616	29 818	—·100	North easterly	105 7	92 4	21st Mar.	?		?	89 9	?	?	?	718
	Champaran	Motihari	29·583	29 817	— 089	Westerly	107 7	92 2	21st ,,	54 9	15th, 16th Mar.	89·8	60·7	75·1	+1 0	701
	Saran ..	Chupra	29 606	29 8[illegible]	— 069	Southerly	127·2	93 3	21st ,,	59 9	17th ,,	91 0	64 1	74·4	+0·9	753
South Behar.	Shahabad	Dehree*	29 480	29 824	—·107	N.-wly.	163 0	98 4	19th ,,	64 2	17th ,,	93 4	67·1	80 2	+3 2	734
		Buxar	29 579	29 827	—·094	Variable	141 4	90 4	19, 21 ,,	64 4	16th ,,	92 6	67 6	80 1	+3 6	743
		Arrah	?	?	?	SW	167 4	96 4	21st ,,	60 7	16th ,,	95 8	67 4	80 6	+1 3	764
	Gya ..	Gya	29 430	29 823	—·104	Variable	108 2	98 0	19th ,,	65 1	16th ,,	94 3	68 3	81 3	+1·1	749
	Patna ..	Bankipore	29 487	29 818	—·106	Variable	83 5	96 0	19th ,,	62 8	16th ,,	93 3	66 5	79 9	+2 3	769
	South Bhagulpore / Monghyr ..	Bhagulpore .	29·630	29 796	—·109	Variable	75 4	93·2	21st ,,	61 5	16th ,,	91 6	68 1	79 8	+1 9	748
	Sonthal Pergunnahs	Deoghur .	29·707	29 814	— 096	South-easterly.	65 8	96 7	18th ,,	63 9	16th ,,	94 9	68 4	81 6	+2 6	709
Chutia Nagpur.	Hazaribagh ..	Hazaribagh	27 803	29 824	— 101	South westerly.	225 5	93·6	21st ,,	62·1	16th ,,	89 9	63 9	76 4	+1 6	764
	Lohardugga ... .. / Manbhoom	Ranchee	27 685	29 823	— 096	SW	130 0	93·2	21st ,,	61 8	16th ,,	86 7	65 3	76 0	+0 7	744
	Singbhoom	Chyebassa ...	29 051	29·820	—·093	Westerly	65 4	99·2	21st ,,	64·9	16th ,,	95 7	60 1	82 4	+0·7	734

* Means of five days. † Means of six days

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last The *humidity* of the atmosphere is expressed as percentage saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 21st of March 1890.

Temperature at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week.		District observations. Rainfall. Since 1st of month.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
			Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
87	2·0	1·83	1·05	0·15	2·55	0·50	+2·05	77·49	56·96	+20·53	1·5	0·5	Pooree ...	Pooree	Orissa.
83	0·1	0·21											Gopalpore ...		
82	3·0	0·01											False Point ..		
79	3·0	1·14	1·09	0·26	1·85	0·82	+1·03	68·26	53 61	+14·65	1·6	0 5	Cuttack ...	Cuttack	
85	0	0 21	0·69	0·38	2·12	0·83	+1·29	52·29	55·20	−2·91	1·3	0·6	Balasore ...	Balasore	
85	2·4	0·02	0·05	0·19	1·32	0·71	+0·61	59·96	64·46	−4·50	1·3	0·5	Saugor Island ..	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
75	1·7	0·39	0·15	0·39	1·03	1·21	−0·18	47·42	53 78	−6 36	0·7	0·5	Midnapore ...	Midnapore	
86	2·7	0·01	0·05	0 22	0·59	1 00	−0·41	54·69	53·91	+0·78	0·3	0·6	Calcutta ...	24-Pergunnahs... ...	
														Howrah	
														Hooghly	
72	1·7	0·38	0·13	0·20	0·60	0·84	−0 24	44·40	48·58	−4·09	0·3	0·5	Burdwan ...	Burdwan	
68	1 3	Nil	Nil	0·23	0·89	0·74	+0·15	56·62	53·75	+3·07	0·0	0·6	Bankoora ...	Bankoora	
68	2 4	0·33	0·17	0·06	0·69	0·41	+0·28	53·15	53·01	+0·14	0·8	0·4	Raneegunge ...	Beerbhoom	
														West Burdwan ...	
86	3·4	Nil	0·14	0·10	0·32	0·50	−0·18	51·49	51·84	−0·35	0·2	0·4	Berhampore ...	Moorshedabad ...	
77	3·7	Nil	0·04	0·27	0·41	1·00	−0·59	52 02	51·18	+0·84	0·2	0·5	Krishnaghur ...	Nuddea	
86	6·7	Nil	0·03	0 41	0 21	1·27	−1·06	54·96	55 60	−0·64	0 1	0·7	Jessore ...	Jessore	
														Khoolna	
85	3 7	2·04	2 17	0 48	2·55	1·33	+1·22	102 90	115·84	−12·94	3 5	0·9	Chittagong ...	Chittagong	East Bengal.
			2·62	0 49	4·29	1·71	+2·58	69·89	84·20	−14·31	3 5	0 8	Demagiri ...	Chittagong Hill Tracts	
88	5 0	0·11	0·34	0·47	0 50	1·38	−0·88	78·91	79 39	−0·48	1·0	0·6	Barrisal ...	Backergunge	
82	1·6	1 99	2·09	0·72	2 24	2 39	−0·15	93·13	110·55	−17 42	3 5	1·2	Noakholly ...	Noakholly	
88	4 3	2·28	1·27	0·53	1·89	1 75	−0·36	63 61	58·67	+4·94	2·0	1·0	Furreedpore ...	Furreedpore	
90	7·0	2·13	1·31	0·55	1·63	1·72	−0·09	77·62	62·32	+15·30	3·8	1·0	Dacca ...	Dacca	
90	5 6	0·06		1·11		2 55			72 88			1·0	Commillah ...	Tipperah	
85	3 1	2·24	2·36	0·21	2·37	1·16	+1·21	91·15	69·39	+21·76	2 5	0 9	Mymensingh ...	Mymensingh	
92	6·7	0·21	0·65	0 15	0·71	0·51	+0·20	66·33	58·53	+7·81	0·8	0·4	Bogra ...	Bogra	North Bengal.
93	6·1	2·98	1·84	0·20	2·01	0·93	+1 08	57·38	53·33	+2·05	2·5	0·4	Serajgunge ..	Pubna	
84	3·0	0·03	0·04	0·02	0·08	0·44	−0·36	54·43	55·02	−0·59	0·7	0·3	Rampore Beauleah	Rajshahye	
72	1 3	0·01	Nil	0·16	0 11	0·36	−0 25	39·90	55·17	−15·27	0 0	0·4	Maldah ...	Maldah	
71	4·1	Nil	0·01	0 08	0·04	0·30	−0·26	57·53	58·18	−0 65	0·2	0·3	Dinagepore ...	Dinagepore	
73	0·4	0·00	0·02	0·30	0·03	0·71	−0 69	85 89	74·97	+10·92	0·5	0·4	Rungpore ...	Rungpore	
69	2·0	0·15	0·06	0 34	0·06	0·80	−0·74	117·79	112·44	+5·35	0·6	0·6	Julpigoree ...	Julpigoree	
														Cooch Behar	
?	?	?	0·01	0 32	0 04	0·99	−0·95	134·50	123 03	+10·47	0·3	0·5	Darjeeling ...	Darjeeling Hill Tracts	
67	1·0	Nil	Nil	0·05	0 05	0·30	−0·25	76·05	60·48	+15·57	0 0	0·3	Purneah ...	Purneah	North Bengal.
			Nil	0·07	0·07	0·35	−0·28	48 92	44 28	+4·64	0 0	0·3	Monufferpore ...	North Bhagulpore ...	
61	1 4	Nil	Nil	0·04	0·06	0·27	−0·21	53·17	45·39	+6 78	0 0	0·2	Durbhunga ...	Monufferpore	
59	2 0	Nil	Nil	0·05	0·15	0·32	−0·17	64·11	47·49	+16·62	0·0	0·2	Motihari ...	Durbhunga	
81	1·9	Nil	Nil	0·04	0·17	0·16	+0 01	40·30	43·59	−3 30	0 0	0 2	Chupra ...	Chumparun	
														Sarun	
47	2 0	Nil											Dehree ...		
50	4 0	0 02	0·02	0·07	0·40	0·36	+0·03	40·49	40·86	−0·37	0·3	0·2	Buxar ...	Shahabad	
47	3·3	Nil											Arrah ..		
81	3·7	0·15	0·07	0 08	0·25	0 29	−0·04	37·34	42 33	−4·99	0·3	0·3	Gya ...	Gya	South Bengal.
62	3·1	0·06	0·01	0·06	0·18	0 24	−0·12	43·61	41·97	+1·65	0·2	0·3	Bankipore ...	Patna	
80	1·6	Nil	Nil	0·06	0·06	0·23	−0 17	42 53	43 92	−1 39	0·0	0·2	Bhagulpore ...	South Bhagulpore ...	
														Monghyr	
84	0·7	0·08	0·02	0·13	0 44	0 44	0	54·09	51·70	+2·39	0·6	0·3	Deoorka ...	Sonthal Pergunnahs...	
60	0·6	Nil	Nil	0·10	0·21	0 73	−0·12	43 64	51·78	−8·14	0·0	0·3	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
51	0·6	0·07	0 11	0 20	1·89	0 69	+1·00	46 03	50 54	−4·51	0·3	0·4	Ranchi ...	Lohardugga	
			0 11	0 19	0·91	0·64	+0 27	39·27	43 50	−0·23	1 0	0·5		Manbhoom	
71	0 1	0·13	0·11	0·25	1 05	0·92	+0·13	49·81	53 34	−3·53	1·0	0·6	Chyebassa ...	Singbhoom ...	

n years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
Noting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means years. The means he district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of March 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 15th March.	Sunday, 16th March.	Monday, 17th March.	Tuesday, 18th March.	Wednesday, 19th March.	Thursday, 20th March.	Friday, 21st March.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
ORISSA ...	Pooree ...	Pooree ...	0·67	0·53	......	......	......	......	......	2	1·20	1·32	0·37	82·03	82
		Khurdah ...	1·93	0·51	......	......	......	......	......	2	2·44	4·34	0·55	80·91	57
		Banpur ...	0·55	......	......	......	......	......	......	1	0·55	4·75	0·46	70·25	50
		False Point ...	......	0·01	......	......	......	......	......	1	0·01	0·52	0·62	77·52	65
		Gop ...											?		?
		Satpara ...	0·02	0·01	......	......	......	......	......	2	0·03	0·71	?	?	?
		Pipli ...											?		?
	Cuttack	Jagatsingpore	0·19	0·71	......	......	......	......	......	2	0·90	1·70	0·66	76·19	68
		Banki ...	0·58	2·15	......	......	......	......	......	2	2·68	3·76	0·90	50·28	51
		Cuttack ...	0·86	0·45	......	......	......	......	......	2	1·31	2·40	1·07	77·58	58
		Kendrapara ...	0·05	......	......	......	......	......	......	1	0·05	0·58	0·62	72·62	54
		Jajpore ...	......	......	......	......	......	......	0·50	1	0·50	0·99	0·88	58·63	56
		Dharmsala ..											?		
		Salipore ...	0·50	......	......	......	......	......	......	1	0·50	1·31	?	73·78	
	Balasore ..	Chandbali ...	0·35	......	......	......	......	......	......	1	0·35	0·57	0·86	55·01	54
		Bhuddruck ...	......	......	......	1·93	......	......	0·32	2	2·25	2·95	0·76	60·91	58
		Sorah ...	1·00	......	0·30	......	......	......	......	2	1·30	1·61	1·13	47·66	53
		Balasore ..	......	......	......	......	......	......	0·05	1	0·05	2·91	0·91	49·72	60
		Jellasore ..											0·73		55
		Haripodah ...	......	......	......	......	0·08	......	0·23	2	0·31	1·33	0·54	56·12	55
SOUTH-WEST BENGAL.	Midnapore ..	Contai ...	......	......	......	0·02	......	......	......	1	0·02	2·25	0·55	57·52	61
		Saugor Island	......	0·02	......	......	......	......	......	1	0·02	0·80	0·59	57·55	65
		Tumlook ...	......	......	......	......	......	......	......	Nil	Nil	0·90	1·39	50·50	53
		Midnapore ...	......	......	......	......	......	0·31	0·15	2	0·46	0·90	1·18	47·16	50
		Ghattal ...	......	......	......	......	......	......	......	Nil	Nil	1·29	1·06	44·59	46
		Kubrahaty ...	......	......	......	0·23	......	......	......	1	0·23	0·93	?	60·77	?
		Garbetta ...	......	......	......	......	......	1·16	0·22	2	1·38	4·77	?	51·06	?
	24-Pergunnahs	Diamond Harbour ...	......	......	......	0·08	......	0·02	......	2	0·10	0·90	1·61	64·09	61·23
		Canning Town	......	......	......	......	......	......	......	Nil	Nil	0·27	?	58·19	?
		Alipore Jail ...	......	......	......	......	......	......	......	Nil	Nil	0·41	1·37	[illegible]	58·[illegible]
		Barrackpore...	......	......	......	......	......	......	......	Nil	Nil	0·49	1·16	52·07	52·29
		Dum-Dum ...	......	......	......	......	......	......	......	Nil	Nil	0·37	1·10	65·90	53·03
		Baraset ..	......	......	......	......	......	......	......	Nil	Nil	0·18	0·99	58·89	52·25
		Buseerhat ...	......	......	......	......	......	......	......	Nil	Nil	0·16	1·30	62·57	50·90
	Howrah ..	Howrah ...	......	......	......	......	......	......	......	Nil	Nil	0·40	1·06	60·04	54·06
		Mohesreka ... (*Oolooberiah.*)	......	......	......	......	......	......	0·05	1	0.5	0·43	0·76	55·47	54·20
	Hooghly ..	Serampore ...	......	......	......	......	......	......	......	Nil	Nil	0·86	0·75	50·19	52·12
		Hooghly ...	......	......	......	0·34	......	......	......	1	0·34	0·56	0·87	38·11	54·28
		Jehanabad ...	......	......	......	......	......	0·09	......	1	0·09	2·31	0·77	43·92	57·09
	Burdwan ..	Culna ...	......	......	......	......	......	......	......	Nil	Nil	0·52	0·93	41·84	40·36
		Burdwan ...	......	......	......	......	......	0·38	......	1	0·38	0·75	0·95	48·00	49·63
		Cutwa ...	......	......	......	......	......	......	......	Nil	Nil	0·51	0·68	43·62	49·60
		Raneegunge ...	......	......	......	......	......	0·33	......	1	0·33	1·04	0·45	56·94	50·09
		Mankur ...	......	......	......	......	......	0·15	......	1	0·15	0·43	?	54·23	?
	Bankoora ...	Bankoora ...	......	......	......	......	......	......	......	Nil	Nil	1·13	1·11	51·99	53·47
		Bishenpore ...	......	......	......	......	......	......	......	Nil	Nil	0·94	0·91	58·43	53·06
		Maliara ...	......	......	......	......	......	......	......	Nil	Nil	0·59	0·41		52·98
		Khatra ...	......	......	......	......	......	......	......	Nil	Nil	0·90	0·55	66·81	56·4[illegible]
		Indas ...	......	......	......	......	......	0·38	......	1	0·38	0·72	?	45·86	?
		Kotalpore ...	......	......	......	......	......	1·80	......	1	1·80	2·01	?	51·01	?
		Anda ...	......	......	......	......	......	......	......	Nil	Nil	0·40	?	40·84	?
		Gangajalghati	......	......	......	......	......	......	0·44	1	0·44	1·17	?	60·34	?
		Raipore ...	......	......	......	......	......	0·48	......	1	0·48	1·25	?	59·60	?
		Sonamukhi ...	......	......	......	......	......	......	......	Nil	Nil	0·36		54·79	?
	Beerbhoom	Bh. Soory ...	......	......	......	......	......	......	......	Nil	Nil	0·59	0·51	59·65	55·12
		Hetampore ...	......	......	......	......	......	......	......	Nil	Nil	0·69	0·18	47·76	55·45
		Rampore Haut	0·03	......	......	......	0·30	......	......	2	0·33	0·40	0·45	48·18	52·82
		Bolpore ...	......	......	......	......	......	......	......	Nil	Nil	0·45	?	55·40	?
		Murarai ...	......	......	......	......	......	......	......	Nil	Nil	0·47	?	58·57	?
	Nuddea ...	Ranaghat ...	......	......	......	......	......	......	......	Nil	Nil	0·55	0·94	50·65	46·98
		Kishnaghur ...	......	......	......	......	......	......	......	Nil	Nil	0·30	0·78	43·15	47·86
		Chooadanga ...	......	......	......	......	......	......	......	Nil	Nil	0·28	0·13	50·21	53·05
		Meherpore ...	......	......	......	......	......	......	......	Nil	Nil	0·29	1·13	58·44	49·61
		Kooshtea ...	0·22	......	......	......	......	......	......	1	0·22	0·66	1·21	56·79	50·75
	Khoolna ...	Satkhira ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·24	54·54	57·32
		Bagirhat ...	......	......	......	......	......	......	......	Nil	Nil	Nil	1·01	55·48	63·82
		Khoolna ...	......	......	......	......	......	......	......	Nil	Nil	0·25	1·35	57·47	57·29
		Nakipur ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
		Rampal ...	......	......	......	......	......	......	......	Nil	Nil	0·25	?	?	?
	Jessore ...	Narail ...	......	......	......	......	......	......	0·23	1	0·23	0·38	1·31	52·30	46·44
		Jessore ...	......	......	......	......	......	......	......	Nil	Nil	0·35	1·51	64·25	50·05
		Jhenidah ...	......	......	......	......	......	......	......	Nil	Nil	0·30	1·35	50·94	55·80
		Magoorah ...	......	......	......	......	......	......	......	Nil	Nil	0·19	1·33	57·49	51·55
		Bongong ...	......	......	......	......	......	......	......	Nil	Nil	0·30	1·64	47·94	53·96
	Moorshedabad	Kandi ...	......	......	......	......	......	0·85	......	1	0·85	1·20	0·40	56·58	52·57
		Berhampore ...	......	......	......	......	......	......	......	Nil	Nil	0·29	0·69	46·48	52·99
		Lalbagh ...	......	......	......	......	......	......	......	Nil	Nil	0·05	0·48	47·18	51·95
		Azimgunge ...											0·51		[illegible]
		Jungipore ...	......	......	......	......	......	......	......	Nil	Nil	0·33	0·41	55·34	[illegible]
		Lalgola ...	......	......	......	......	......	......	......	Nil	Nil	0·04	0·48	50·76	53·07
		Jiagunge ...	0·03	......	......	......	......	......	......	1	0·03	0·13	?	47·42	?
		Akhrigunj ...	......	......	......	......	......	......	......	Nil	Nil	0·06	?	43·12	?
		Patkabari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	?	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	......	1·05	0·95	0·05	0·07	......	......	4	2·12	2·12	1·31	135·71	137·91
		Chittagong ...	......	1·82	0·38	0·02	......	......	......	3	2·22	2·90	1·34	79·95	96·72
		Kutubdia ...	......	1·17	0·23	0·05							?		
		Satkania ...	1·51	......	......	0·19	......	......	......	2	1·70	1·90	?	65·66	[illegible]
	Chittagong Hill Tracts.	Rangamati ...	1·31	0·49	0·50	0·50	......	......	......	4	2·80	4·60	1·89	68·60	80·73
		Buma ...	......	1·88	0·36	0·20	......	......	......	3	2·44	3·07	1·53	71·17	82·71
	Backergunge	Patuakhally ...	......	0·25	......	......	......	......	......	1	0·25	0·25	0·81	87·91	89·73
		Perozepore ...	......	......	......	......	......	......	......	Nil	Nil	0·11	1·10	72·75	78·41
		Burrisal ...	......	......	0·32	......	......	......	......	1	0·32	0·79	1·88	76·00	70·56
		Bhola ...	......	0·55	0·25	......	......	......	......	2	0·80	0·82	1·55	81·98	84·54

Statement of Rainfall in Bengal for the week ending Friday (8 a. m.), the 21st of March 1890—contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 15th March.	Sunday, 16th March.	Monday, 17th March.	Tuesday, 18th March.	Wednesday, 19th March.	Thursday, 20th March.	Friday, 21st March.	Total: Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
East Bengal—concld.		*Gournaddi* ..	......	......	......	......	......	......	1·35	1	1·35	1·35	?	62·66	?
		Bauphal .	......	0·07	......	......	......	......	......	1	0·07	0·07	?	93·10	?
	Noakholly ...	Noakholly ..	0·03	0·58	1·22	0·14	......	......	......	4	1·97	1·97	2·39	104·55	111·10
		Fenny .	0·05	0·45	1·70	......	......	......	......	3	2·20	2·49	2·39	81·65	110·30
		Hareshpore ...	......	2·35									?		?
		Ramganj ..	......	......	......	......	......	......	...	Nil	Nil	Nil	?	86·75	?
	Furreedpore	Madaripore ..	......	......	0·11	......	......	......	0·39	2	0·50	0·50	1·82	63·44	58·34
		Furreedpore ..	......	......	......	......	1·55	0·84	......	2	2·39	2·61	2·01	68·24	59·68
		Goalundo	0·06	......	......	......	......	0·85	......	2	0·91	1·01	1·41	59·06	55·57
	Dacca ...	Munshigunge	......	0·46	0·42	......	......	......	......	2	0·88	1·81	2·90	79·32	73·33
		Dacca ..	0·04	0·14	2·18	0·05	......	0·05	0·06	6	2·52	2·57	1·78	78·02	61·31
		Narainganj	......	0·19	0·74	0·03	......	......	......	3	0·96	1·05	1·36	82·19	62·30
		Manickgunge	0·04	......	......	0·04	......	0·02	0·78	4	0·88	1·00	0·83	70·74	61·95
		Joydebpore ..	0·12	......	......	0·37	......	......	0·01	3	0·50	0·71	?	69·26	?
	Hill Tipperah	Agartola ..	......	......	......	3·27	......	......	......	1	3·27	3·78	2·73	48·16	65·31
	Tipperah ...	Comilla ..	0·05	0·02	......	......	......	......	......	2	0·07	0·29	2·43	63·26	79·41
		Chandpore ..											2·18		77·88
		Brahmanbaria	0·09	0·06	0·04	1·85	......	......	......	4	2·04	2·16	2·84	55·28	65·85
		Ramchandrapore.	......	......	0·14	......	......	......	......	1	0·14	0·65	?	61·47	?
		Nasirnagar ...	0·25	0·10	1·40	2·50	......	1·45	0·40	6	6·10	6·25	?	38·64	?
		Daudkandi ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	53·73	?
		Kasba ..	0·07	......	0·05	......	......	......	......	2	0·12	0·05	?	63·10	?
		Laksham ..	......	......	2·50	......	......	......	......	1	2·50	2·85	?	72·35	?
	Mymensingh...	Kishoregunge	0·31	......	0·19	0·25	......	1·43	0·83	5	3·01	3·01	1·89	73·81	72·67
		Atia (*Tangail*)	......	......	......	......	......	1·28	......	1	1·28	1·38	1·01	64·05	67·62
		Mymensingh	......	......	......	0·87	......	1·29	......	2	2·16	2·18	1·21	100·11	76·20
		Jamalpore ..	0·02	......	......	0·29	......	0·77	......	3	1·08	1·08	0·70	87·09	66·93
		Netrakona ..	......	......	......	0·81	......	1·88	1·55	3	4·24	4·24	1·19	130·71	74·39
		Subornakhali	......	......	......	......	......	0·77	......	1	0·77	0·77	?	58·20	?
		Durgapore ...	......	......	......	......	......	......	1·64	1	1·64	1·64	?	151·92	?
		Sherepore Town	......	......	......	0·25	......	0·44	......	2	0·69	0·69	?	88·86	?
		Dewanganj .	......	......	......	......	......	......	0·18	1	0·18	0·18	?	57·28	?
North Bengal.	Pubna ..	Pubna ...	0·03	......	......	......	......	0·41	0·02	3	0·46	0·71	1·15	50·91	55·88
		Serajgunge ..	0·10	......	......	......	......	3·12	......	2	3·22	3·30	0·72	63·61	54·61
	Bogra ...	Sherepore ...	......	......	......	......	......	......	......	Nil	Nil	0·03	0·65	62·70	58·07
		Nowkhilla ...	......	......	......	......	......	1·54	......	1	1·54	1·54	0·51	65·98	55·56
		Bogra ...	......	......	......	......	......	0·85	......	1	0·85	0·93	0·40	73·28	61·64
		Panchbibi .	......	......	......	......	......	0·23	......	1	0·23	0·23	0·50	66·31	56·74
	Rajshahye ...	Beauleah ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·48	46·34	54·12
		Nattore .	0·02	......	......	......	......	......	......	1	0·02	0·13	0·43	58·37	56·24
		Naogaon .	......	......	......	......	......	0·10	......	1	0·10	0·10	0·45	57·97	58·38
		Lalpore ...	......	......	......	......	......	......	......	Nil	Nil	0·03	?	36·75	?
		Manda .	......	......	......	......	......	......	......	Nil	Nil	Nil	?	46·27	?
	Maldah ...	Maldah .	0·01	......	......	......	......	......	......	1	0·01	0·21	0·68	50·80	52·72
		Chanchal ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·23	28·96	57·40
		Gajol ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	39·79	?
		Sibganj ...	......	......	......	......	......	......	......	Nil	Nil	0·34	?	58·11	?
	Dinagepore ...	Mohadebpore	......	......	......	......	0·06	......	......	1	0·06	0·18	0·18	58·81	57·81
		Churamon ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·20	51·82	53·25
		Raigunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·32	52·37	58·66
		Dinagepore .	......	......	......	......	......	......	......	Nil	Nil	Nil	0·55	62·33	64·47
		Balooraghat	......	......	......	......	......	......	......	Nil	Nil	Nil	0·26	61·29	52·07
		Thakoorgaon	......	......	......	......	......	......	......	Nil	Nil	Nil	?	57·31	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	......	......	......	......	......	......	......	Nil	Nil	Nil	0·78	88·39	62·95
		Rungpore ...	0·02	......	......	......	......	......	0·04	2	0·06	0·06	0·71	75·04	75·66
		Kurigram ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·79	91·61	74·44
		Bagdogra (*Nilphamari*).	......	......	......	......	......	......	......	Nil	Nil	Nil	0·56	88·49	86·22
		Ulipore ...	......	......	......	......	......	0·15	1·30	2	1·45	1·45	?	80·55	?
	Julpigoree ...	Julpigoree ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·97	122·45	118·25
		Alipore Dooar	......	......	......	......	......	......	......	Nil	Nil	Nil	?	119·58	?
		Fallacotta ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	123·25	?
		Debiganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	90·94	?
		Bhagalpore (Nagrakatta).	......	......	......	......	......	......	......	Nil	Nil	Nil	?	130·22	?
	Cooch Behar.	Dinhatta .	......	......	......	......	......	......	0·03	1	0·03	0·03	0·77	96·86	97·57
		Cooch Behar .	......	......	......	......	......	......	0·13	1	0·13	0·13	0·88	106·02	119·47
		Mekligunge ..	......	......	......	......	......	......	......	Nil	Nil	Nil	0·82	124·40	106·79
		Matabhanga ...	......	......	......	......	......	0·13	......	1	0·13	0·13	0·84	118·16	113·93
	Darjeeling Hill.	Buxa ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·38	102·38	106·09
		Silliguri ..	......	......	......	......	......	......	......	Nil	Nil	Nil	1·08	121·72	104·72
		Darjeeling ..	......	......	0·04	0·02	......	......	......	2	0·06	0·06	0·44	128·34	110·41
		Kalimpong ..	......	......	0·10	......	......	......	......	1	0·10	0·10	0·67	92·25	85·37
		Kurseong ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?	170·93	?
North Behar	Purneah ..	Kissengunge...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·33	103·67	71·80
		Arrareah ...	......	......	......	......	......	......	......	Nil	Nil	Nil	0·41	79·75	64·61
		Purneah ...	......	......	......	......	......	......	......	Nil	Nil	0·05	0·34	62·52	63·46
		Gondwara ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Balarampore	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Matiari ...	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
		Kaliaganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?		?
	North Bhagulpore.	Maddapore ..	......	......	......	......	......	......	......	Nil	Nil	0·10	0·26	60·95	50·37
		Soopool ...	......	......	......	......	......	......	......	Nil	Nil	0·10	0·24	67·38	48·53
		Protabganj ..	......	......	......	......	......	......	......	Nil	Nil	Nil	?	55·18	?
	Durbhunga ...	Tajpore ...	......	......	......	......	......	......	......	Nil	Nil	0·07	0·19	48·61	43·70
		Durbhunga ...	......	......	......	......	......	......	......	Nil	Nil	0·13	0·25	50·37	46·64
		Madhubani ...	......	......	......	......	......	......	......	Nil	Nil	0·05	0·36	63·61	49·53
		Bahera ...	......	......	......	......	......	......	......	Nil	Nil	0·13	?	70·09	?
		Beshera ..	......	......	......	......	......	......	......	Nil	Nil	0·05	?	55·39	?
	Mozufferpore	Sitamarhi ...	......	......	......	......	......	......	......	Nil	Nil	0·01	0·54	55·40	43·96
		Mozufferpore	......	......	......	......	......	......	......	Nil	Nil	0·11	0·28	48·58	46·87
		Hajipore ...	......	......	......	......	......	......	......	Nil	Nil	0·07	0·22	43·69	43·73
		Paru ...	......	......	......	......	......	......	......	Nil	Nil	0·20	?	37·80	?
		Mahua ...											?		?
		Bihar ...	......	......	......	......	......	......	......	Nil	Nil	0·20	?		?
		Papri ...	......	......	......	......	......	......	......	Nil	Nil	0·34	?	68·48	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of March 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 15th March.	Sunday, 16th March.	Monday, 17th March.	Tuesday, 18th March.	Wednesday, 19th March.	Thursday, 20th March.	Friday, 21st March.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·33	75·53	45·16
		Bettiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	0·31	53·69	48·90
		Bagaha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	?	70·44	?
		Barbarwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	?	51·95	?
	Saran	Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·25	0·07	35·73	44·19
		Revan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	0·14	44·43	46·63
		Chuprah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·27	40·85	41·30
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	0·22	47·74	39·20
		Dehree	.....	.....	.....	.....	.....	.....	0·05	1	0·05	0·28	0·63	41·02	40·89
		Bhabooah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·54	38·61	43·00
		Sasseram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·35	0·22	30·31	41·40
		Arrah	0·08	.....	.....	.....	.....	.....	.....	1	0·02	0·09	0·20	42·82	41·06
		Mohanish	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	?	?	?
	Gya	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·31	35·62	43·56
		Gya	.....	.....	.....	.....	.....	0·15	.....	1	0·15		0·25		43·42
		Nowadah	.....	.....	.....	.....	0·05	.....	.....	1	0·05	0·15	0·25	39·72	40·95
		Jehanabad	.....	.....	.....	.....	.....	0·07	.....	1	0·07	0·20	0·25	35·77	40·82
		Arwal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	34·49	?
		Nandnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26·69	?
		Sherghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	19·29	?
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	?	17·94	?
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·90	?
	Patna	Patna	0·03	.....	.....	.....	.....	.....	.....	1	0·03	0 07	0·25	51·59	42·44
		Dinapore										0 17	0·27		46 05
		Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·27	41·29	42·78
		Barrh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·25	36 03	40·49
		Bickram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	?	41·48	?
		Hilsa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	?	35 64	?
	Monghyr	Begoosarai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·16	47·75	40·91
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	41·77	47·39
		Jamui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·32	39·58	43 96
		Gogri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39 19	?
		Sheikpura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·33	?
	South Bhagulpore	Bhagulpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	45 06	43·95
		Barka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	0 25	38 43	44·94
		Kolgong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·97	?
		Bangaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Sonthal Pergunnahs.	Rajmehal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·26	59·97	53·78
		Godda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	0·32	49·74	46 36
		Pakour	0·05	.....	.....	.....	.....	.....	.....	1	0·05	0·44	0·37	73·83	56·04
		Nya Doomka	0·02	.....	.....	.....	.....	.....	.....	1	0·02	0·33	0·38	57·10	54·39
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	0·51	40·82	51 78
		Jamtara	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·25	0·30	46·06	50·08
		Mukapama	.....	.....	.....	.....	.....	.....	.....				?		?
		Nanihat	.....	.....	.....	.....	.....	.....	.....				?		?
Chutia Nagpur.	Hazaribagh	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·34	0·03	39·24	48·78
		Hazaribagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	0·39	49·81	48·43
		Semtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·74	1·01	36·98	48·44
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....				0·70		49·31
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	0 72	43·40	54 03
		Barhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·67	?	32·68	?
		Chatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·05	?	47·09	?
		Keregdeha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·79	?	40·96	?
		Ramghar	.....	.....	.....	.....	.....	.....	.....				?		?
	Lohardugga	Lohardugga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·40	0·53	46·72	52 60
		Ranchi	.....	.....	.....	.....	.....	0·34	.....	1	0·34	2·62	0·25	56·25	54·24
		Palamow	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·94	0·53	38·13	41·59
		Silli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	34·20	?
		Balumat	.....	.....	.....	.....	.....	.....	.....				?		?
		Hossainabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·39	?	44·79	?
		Garwah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·06	?	39·43	?
	Singbhoom	Chyebasa	.....	.....	.....	.....	.....	0·11	.....	1	0·11	1·06	0·03	49·61	53·46
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....				?		?
		Ghatsilla	.....	.....	.....	.....	.....	0·13	.....	1	0·13	2·13	?	60·28	?
		Baharagora	.....	.....	.....	.....	.....	2·50	.....	1	2·50	3·47	?	57·27	?
	Manbhoom	Purulia	.....	.....	.....	.....	.....	0·19	.....	1	0 19	0·90	0·34	44·48	50·94
		Gobindpore	.....	.....	.....	.....	.....	0 03	.....	1	0·03	0·86	0·42	34·05	46 31
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	?	46·32	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	0·30	1	0 30	1·80	?	45·82	?
		Jhalda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	?	51·60	?
		Chas	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	?	50·42	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 25th March* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21st OF MARCH 1890.

THE period of unsettled weather, which included the greater part of the preceding week, continued during the present one, the thunderstorms accompanied by showers being most frequent in the early part of the week in the southern districts. The disturbed conditions gradually passed eastwards, and while scattered storms with light rain occurred in most of the districts, frequent showers were reported from East Bengal only during the last few days. At first there was generally low pressure, which became intensified in North Bengal in the middle of the week, and though rather large changes were reported, defect continued with a tendency to increase towards the end.

On the 15th, the first day of the week, there was a rather diffused low-pressure area overlying the greater part of Bengal, and deepening towards the foot of the hills Strong winds, generally southerly in direction, were blowing in the north-west corner of the Bay and at most of the inland stations, while temperature changes, as well as the distribution relative to the normal, were somewhat irregular. On the 16th the fall of pressure, which had been going on for some days, ceased and was followed by a general rise, very rapid in North Bengal but diminishing towards the south, till in South Bengal it was only two or three-hundredths of an inch. The centre of the diffused low-pressure area was then near Bhagulpore, and the wind circulation tended towards that point, being southerly in the lower districts, east in North Bengal, and from south-west to north-west in Behar. The difference from normal pressure was very uniform, exceeding a tenth of an inch in South Bengal and along the west coast of the Bay, while it was very little less over the rest of the province. During these two days thunderstorms were numerous in Orissa and East Bengal, accompanied by heavy showers in the former, but as a rule giving only light falls in the latter. From the 16th rain almost entirely ceased in Orissa, there being only a few scattered showers in the Balasore district during the remainder of the week. On the 17th pressure again began to fall very rapidly in Chutia Nagpur, Behar, and the northern half of South-West Bengal. The depression was more distinct, having its centre still near Bhagulpore with a similar wind circulation, except that the velocity, which had begun to fall off on the previous day, again increased. Temperature was rising and was from one to three degrees in excess. The only rainfall on this day was in East Bengal, where, however, it was more heavy and general than before. On the 18th pressure increased about a twentieth of an inch in the centre of the province, the depression partially filling up, but wind directions remained unchanged. Temperature changed irregularly, falling in North Bengal and Behar, and rising four to five degrees in East Bengal, where there were again light showers of rain. On the 20th there was a similar increase of pressure preceded by small irregular changes on the 19th and followed by a rapid fall on the 21st. During these three days defect in pressure generally ranged from a twentieth to a tenth of an inch, and the indraught towards the centre of the province continued. Rain showers were very light and scattered except on Thursday, the 20th, in South-West and East Bengal. Temperature continued to rise, and by the end of the week was from two to five degrees in excess of the normal.

Pressure—Has been subject to large and frequent changes, but has been considerably below the normal throughout the whole week. The largest defect was slightly over a tenth of an inch in South-West Bengal, and the lowest eight-hundredths of an inch in part of South-West and East Bengal.

Temperature—Has been generally rising, and the means at the different stations are all in excess by amounts ranging up to four degrees The excess in the means for North Bengal and South Behar is over 2° and for the other districts over 1° excepting Orissa, where it is 0·6°. The highest observed during the week was 98·4° in South Behar, and the lowest 54·9° in North Behar.

The actual temperatures during the week, the range from day to night, and their variation from the normals, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 21st March 1890.

	Normal mean maximum temperature for the week ending 21st March.	Actual mean maximum temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 21st March.	Actual mean minimum temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 21st March.	Actual mean daily temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.
Cuttack	96·5	93·8	—2·7	73·7	75·1	+1·4	85·0	84·4	—0·6
Calcutta	89·5	90·9	+0·4	70·3	73·3	+2·4	80·6	82·1	+1·5
Dacca	90·3	91·3	+0·3	69·3	70·1	+0·9	79·7	80·3	+0·6
Burdwan	94·1	96·0	+0·9	69·3	71·1	+1·8	81·7	83·0	+1·3
Patna	91·6	93·3	+1·7	67·8	68·5	+2·7	77·6	79·9	+2·3
Gya	94·3	94·3	0	68·0	69·3	+1·3	80·3	81·3	+1·1
Purneah	91·3	90·1	—0·9	61·0	62·5	+1·5	75·5	76·3	+0·8
Rosaribagh	89·4	89·9	+0·5	64·4	66·9	+2·5	76·9	78·4	+1·5
Darjeeling	57·1	55·1	—2·0	43·3	43·6	—1·5	50·2	49·0	—1·2

Rainfall.—As stated above, almost all the rain that has fallen during the week has been in Orissa and East Bengal: in the former during the first two days, but continuing in the latter till the end, the only day when frequent showers were not received there being Wednesday. The days when showers were most numerous in East Bengal were Tuesday and Thursday, but the falls were generally under half an inch, though some reported more than an inch and-a-half The averages for Orissa, East Bengal, and North Bengal are above the normal, East Bengal having received 1·6 inches, nearly three times the normal amount for the week, Orissa 0·95 inch, and North Bengal 0·27 inch In the other districts the falls have been very scanty, under a tenth of an inch in all, while in North Behar no rain whatever has fallen.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of March 1890:—

Meteorological Divisions	Temperature						Rainfall								
	Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Of week. Average.	Normal average.	Variation.	Rainy days. Average number in week.	Normal average number in week.	Variation.	Since 1st of month. Average.	Normal average.	Since 1st May 1889. Average.	Normal average.
Orissa	97·9	70·1	88·4	73·8	82·1	+0·6	0·95	0·28	+0·67	1·5	0·6	+0·9	2·16	0·74	64·31	55·11
South-West Bengal ...	96·1	69·0	86·7	71·9	82·8	+1·3	0·07	0·26	−0·19	0·3	0·6	−0·3	0·57	0·69	53·38	53·59
East Bengal	92·8	65·9	86·8	70·9	78·3	+1·0	1·60	0·87	+1·73	2·7	0·9	+1·8	1·90	1·70	78·80	77·01
North Bengal	94·7	68·9	90·6	65·6	78·1	+2·3	0·27	0·17	+0·10	0·7	0·5	+0·2	0·31	0·57	73·85	71·57
North Behar	93·3	54·9	90·4	62·1	76·3	+1·1	Nil	0·05	−0·05	0·0	0·3	−0·3	0·10	0·28	58·09	48·50
South Behar	96·4	60·7	93·4	67·3	80·3	+2·1	0·02	0·08	−0·06	0·4	0·3	+0·1	0·26	0·33	44·44	44·63
Chutia Nagpur	95·8°	61·8°	89·8°	66·1°	77·7°	+1·2°	0·05	0·16	−0·11	0·3	0·4	−0·1	1·02	0·72	51·10	50·96

* Chyebassa not included.

Meteorological Office, Bengal; *The 25th March* 1890.

C. Little,
For Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd March 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
Mar. 1890 ...	16th ...	29·806	80·9	91·5	21·2	70·3	84·1	75·0	·747	70·5	64	Nil
,, ,, ...	17th ...	·794	82·3	90·5	16·5	74·0	85·6	78·5	·881	75·4	72	... ..
,, ,, ...	18th ...	·697	83·2	93·5	20·7	72·8	86·0	72·4	·614	64·8	49	... ..
,, ,, ...	19th ...	·874	81·9	90·0	16·2	73·8	84·6	77·5	·849	74·3	72	... ..
,, ,, ...	20th ...	·846	84·7	94·5	19·7	74·8	86·2	78·5	·872	75·1	70	.....
,, ,, ...	21st ...	·817	86·8	96·2	18·9	77·3	87·6	80·7	·956	77·9	78	.....
,, ,, ...	22nd ...	·798	85·9	96·0	20·2	75·8	87·1	77·0	·793	72·3	62	.....

	Inches.
The mean 10 A.M. pressure of the seven days	29·825
The mean temperature of the seven days	82·7
The extreme variation of temperature	25·9
The maximum temperature	96·2
	%
The mean 10 A.M. relative humidity of the seven days	66
	Inches.
The total fall of rain from 16th to 22nd March 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 24th March 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 16th to 22nd March 1890.

Month	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
March	16th	144·9	9·6	29·755	80·6	90·1	20·4	69·7	72·6	0·699	68·6	68	SSW and variable	89	Nil	Clear
,,	17th	146·8	8·3	·729	81·9	89·3	16·1	73·2	77·2	·875	74·2	81	SSW and S	244	.	Partially cloudy
,,	18th	145·3	9·3	·769	82·1	92·7	19·5	73·2	72·4	·667	67·2	61	SW and SSW ...	122	...	Clear
,,	19th	145·5	8·6	·815	82·0	89·1	16·0	73·1	76·3	·833	73·7	77	SSW and S	200	...	Partially cloudy. ⌓, °, t, ≺.
,,	20th	146·3	9·0	·771	83·2	93·5	18·8	74·7	77·0	·846	74·2	75	SSW and SW	179	0·01	Partially cloudy, o, d.
,,	21st	148·3	10·0	·752	84·7	95·5	20·4	75·1	78·3	·884	75·5	76	SSW and WSW	103	Nil	Chiefly clear, ⌓.
,,	22nd	145·5	10·3	·720	84·0	94·5	19·5	75·0	76·8	·826	73·5	71	SSW and SW	115	,,	Clear, ⌓, —

	Inches.
The mean pressure of the seven days	29·759
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·817
	Hours.
The total number of hours of bright sunshine	65·1
The maximum possible number of hours of sunshine	84·3
	°
The mean temperature of the seven days	82·6
The average temperature of the corresponding period for 24 years, S.-G.'s Office	81·2
The extreme variation of temperature	25·8
The maximum temperature	95·5
	Miles.
The highest velocity of the wind in one hour	16
	lbs.
The highest pressure of wind on one square foot	Approximately 3
	%
The mean relative humidity	73
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	64
	Inches.
The total fall of rain from 16th to 22nd March 1890	0·01
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·26
The total fall from 1st January to 22nd March 1890	1·10
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·57

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h. and 22h

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph

The mouth of the rain-gauge is one foot above the ground.

⌓ dew, o overcast, d drizzling rain, t thunder, ≺ lightning, — fog.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 24th March 1890.

MEMORANDUM.

THE returns of vital statistics received from the principal Municipalities in Bengal during the week ending 8th March 1890, disclose the following results :—

1. That the birth-rate in these Municipalities amounted to 19·p r 1,000 of population, against 18·5 per 1,000 during the preceding week ending 1st March, and the death-rate to 20 2, against very nearly the same ratio, viz., 20·1 per 1,000.

2. That the following Municipalities furnished the highest proportions of births and deaths :—

Births.

	Ratio per *mille.*
Comillah	46·2
Durbhanga	37 8
Naraingani	37 3
Monghyr	33 4
Hughli and Chinsurah	31 2

Deaths.

	Ratio per *mille*
Poori	96·5
Utterpara	66 1
Naraingani .. .	58 0
Comillah	57 8
Ranaghat	35 9
Rampore Beauleah	34 2
Serampore	33·4
Hughli and Chinsurah ..	32 8

3. That the mortality from the registered death-causes does not exhibit any noticeable differences in comparison with the death-rates from the same diseases during the preceding week, *vide* figures given below :—

	Ratio per *mille* during the weeks ending—	
	8th March 1890.	1st March 1890.
Cholera	3 5	2 9
Small-pox	·5	1·0
Fever	7 4	7 4
Bowel-complaints	2 4	2 5
Injury	·5	6
Other causes	5 9	7 9

4. That cholera and the maladies classed under the head of "Other causes" proved conspicuously fatal in the following Municipalities :—

Cholera.

	Ratio per *mille*
Utterpara	47·2
Poori	46 1
Naraingani	37·4
Comillah	30 8
Monghyr	6 3
Gya	4·8
Howrah	4·0

Other causes.

	Ratio per *mille.*
Ranaghat	23 9
Comillah	15 4
Hughli and Chinsurah	13 1
Serampore	11·8

Of the other diseases, small-pox and bowel-complaints prevailed most virulently in the town of Poori, and carried off 16·8 and 10·5 per 1,000 of population, respectively, while fever caused great loss of life in Rampore Beauleah, the mortality amounting to 26 3 per 1,000.

5. That the mortality according to *Sex*, *Class* and *Age* stood as follows :—

According to Sex.

	Ratio per *mille*
Males	22·1
Females	18·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	121

According to Class.

	Ratio per *mille.*
Christians	14 9
Hindus	20·5
Mahomedans ...	19 8

According to Age.

	Ratio per *mille*
Under 1 year ...	131·1
1 and under 5 years ...	25 7
5 „ 10 „ ...	8 9
10 „ 15 „ ...	6·5
15 „ 20 „ ...	10 9
20 „ 30 „ ...	14 0
30 „ 40 „ ...	17 8
40 „ 50 „ ...	12 0
50 „ 60 „ ...	23 5
60 years and upwards ...	58 5

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Beng l.

The 25th March 1890.

1	2	3			4			5			6	7							8							9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.												
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week	Deaths.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,463	16,617	34,080	9	10	19	13·7	15·3	29·0	111	...	2	11	2	...	3	18	...	3·6	16·8	3·6	...	4·6	27·5	13·7	9	9	25·9	29·2	88
Midnapore ...	Midnapore ...	16,927	16,693	33,560	10	6	16	15·5	9·2	24·8	166	...	...	2	5	..	6	13	..	...	3·1	7·7	..	9·3	20·1	20·1	10	3	30·7	9·4	326
Hughli ...	Hughli and Chinsurah.	15,558	15,829	31,387	11	8	19	18·1	13·1	31·2	137	...	...	9	3	...	8	20	...	...	14·8	4·9	....	13·1	32·8	31·5	14	6	45·9	19·7	233
Serampore ...	Serampore ...	13,559	12,937	26,496	5	7	12	9·8	13·7	23·6	71	...	...	9	2	...	6	17	...	...	17·6	3·9	...	11·8	33·4	33·4	10	7	38·4	28·1	136
	Utterpara	3,946	3,464	5,410	...	2	2	...	18·9	15·9	No male birth.	5	...	...	2	...	...	7	47·2	...	...	18·9	...	..	66·1	37·8	3	4	51·2	84·4	60
Howrah ...	Howrah	53,153	37,660	90,813	20	14	34	11·5	8·0	19·5	142	7	...	10	8	1	13	39	4·0	...	5·7	6·6	·6	7·4	22·3	14·9	23	16	29·5	23·1	101
	Bali	7,886	6,979	14,815	1	2	3	3·5	7·0	10·5	50	...	...	1	1	...	2	4	..	...	3·5	3·5	...	7·0	14·0	28·1	3	1	19·9	7·5	265
Nadden ...	Kishnaghur ...	13,363	14,214	27,477	9	2	11	17·0	3·8	20·8	450	2	.	4	...	..	4	10	3·8	...	7·5	.		7·5	18·9	9·4	7	3	27·4	11·0	249
	Ranaghat	4,928	4,655	8,583	3	...	3	18·0	...	18·0	No female birth.	...	...	1	1	...	4	6	...	...	6·0	6·0	...	23·9	35·9	18·0	4	2	51·6	22·3	200
	Santipore	13,706	15,979	29,687	1	2	3	1·8	3·5	5·3	50	...	...	2	...	...	...	2	...	...	3·5	...	..	..	3·5	7·0	2	...	7·6	...	No female death.
Jessore ...	Jessore	4,630	3,865	8,495	1	..	1	6·1	...	6·1	No female birth.	...	...	3	1	...	...	4	...	...	18·4	6·1	...	...	24·5	24·5	2	2	21·5	23·4	76
Rajshahye ..	Rampore Beauleah	10,766	9,025	19,791	5	2	7	13·1	5·3	18·4	250	...	...	10	1	...	2	13	..	...	26·3	2·6	...	5·3	34·2	26·3	8	5	38·6	28·8	134
Darjiling ..	Darjiling	4,579	2,436	7,015	1	2	3	7·4	14·8	22·2	50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22·2	...	...	...	...	...
Dacca ...	Dacca	42,788	37,879	80,161	11	10	21	7·1	6·5	13·6	119	3	...	5	3	1	10	22	1·9	...	3·2	1·9	·6	6·5	14·3	17·5	14	8	17·0	11·1	153
	Narainganj ...	7,606	4,966	12,561	6	3	9	24·8	12·4	37·3	200	9	...	2	...	1	2	14	37·3	...	8·3	...	4·1	8·3	58·0	24·8	6	3	41·0	33·9	46
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150	...	.	1	...	1	1	3	...	...	2·3	...	2·3	2·3	7·0	11·7	3	..	11·7	...	No female death.
Tipperah ...	Comillah	8,153	5,353	13,506	10	2	12	39·5	7·7	46·2	500	8	...	1	2	...	4	15	30·8	...	3·9	7·7	...	15·4	57·8	26·9	5	10	31·9	97·1	33
Patna	Patna City ...	78,762	81,475	160,237	11	12	23	3·6	3·9	7·5	91	1	1	7	2	...	18	29	·3	·3	2·3	·6	...	5·8	9·4	7·8	16	13	10·6	8·3	127
Gya	Gya	38,290	37,831	76,121	12	13	24	6·2	6·2	16·4	100	7	...	22	...	4	10	43	4·6	...	16·6	...	2·7	6·6	29·4	37·6	20	23	27·2	31·6	86
Shahabad ...	Arrah	20,960	22,505	43,465	8	9	17	9·6	10·7	20·3	88	...	...	8	1	...	2	11	...	...	9·6	1·2	...	2·4	15·2	9·6	6	5	14·9	11·6	128
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	2	9	11	2·4	10·9	13·4	22	...	...	7	1	1	2	11	...	...	8·6	1·2	1·2	2·4	15·4	13·2	7	4	15·8	10·6	175
Durbhanga ..	Durbhanga ...	33,774	32,322	66,096	29	19	48	23·8	14·9	37·8	152	...	...	13	2	...	6	21	...	...	10·2	1·6	...	4·7	16·5	28·2	10	11	15·4	17·7	87
Saran	Chupra	25,116	26,554	51,670	4	6	10	6·0	6·0	10·1	66	...	...	1	...	1	2	4	...	...	1·0	...	1·0	2·0	4·0	18·1	1	3	2·1	5·9	35
Bhagulpore ...	Bhagulpore ...	29,640	27,818	57,458	13	4	17	11·8	3·6	15·4	325	...	...	5	2	...	4	11	...	...	4·5	1·8	...	3·6	10·9	26·2	6	5	10·5	9·3	113
Monghyr ...	Monghyr	26,184	29,366	57,550	13	24	37	11·7	21·7	33·4	54	7	...	5	4	1	8	25	6·3	...	4·5	3·6	·9	7·2	22·5	26·0	11	14	20·3	24·8	82
Purneah ...	Purneah	8,463	6,553	15,016	3	5	8	19·4	17·3	27·7	60	...	...	5	...	..	...	5	...	...	17·3	...	...	...	17·3	3·5	3	2	15·4	15·9	150
Poori	Poori	13,247	11,537	24,784	9	4	13	18·9	8·4	27·3	225	22	8	8	5	...	3	46	46·1	16·8	16·8	10·5	...	6·3	98·6	65·0	31	15	121·7	31·5	386
	Total ...	550,206	510,583	1,061,474	210	178	388	10·3	8·7	19·0	118	71	11	152	48	11	120	413	3·5	·5	7·4	2·4	·5	5·9	20·2	23·1	234	179	22·1	18·2	121

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	—	10	6	—	—	—	22·0	40·5	—	—	1	1	—	1	—	3	4	3	1	4	76·3	23·0	—	20·7	—	19·7	30·2	25·3	21·2	140·4
Midnapore ...	Midnapore ...	—	11	2	—	—	—	22·1	16·4	—	—	2	1	—	—	—	1	3	1	—	5	140·0	22·1	—	—	—	7·1	23·1	13·0	.	142·1
Hughli ...	Hughli and Chinsurah	—	19	1	—	—	—	39·1	8·6	—	—	5	4	—	—	2	4	—	—	1	4	223·8	23·7	—	.	41·4	28·5	—	.	20·0	100·3
Serampore ...	Serampore ...	—	15	2	—	—	—	76·9	118·9	—	—	5	2	2	—	—	1	2	1	1	3	366·2	57·6	41·4	—	—	9·7	20·9	15·4	27·2	113·1
	Utterpara	—	7	—	—	—	—	69·2	—	—	—	—	1	—	—	1	—	1	1	—	1	—	123·5	—	—	118·2	90·6	49·6	74·2	—	200·9
Howrah ...	Howrah	2	27	10	—	—	54·9	20·6	25·3	—	—	7	3	5	—	2	3	9	3	3	8	176·4	28·2	21·3	—	14·2	6·9	24·3	5·8	28·4	69·3
	Bali	—	2	2	—	—	—	7·8	79·3	—	—	1	1	—	1	—	—	—	—	—	1	143·6	52·0	—	43·3	...	...	...	...	...	71·0
Nuddea ...	Kishnaghur ...	—	6	4	—	—	—	16·7	26·1	—	—	1	—	1	—	1	2	1	3	1	1	104·5	...	15·1	—	25·2	19·8	13·1	42·5	34·7	30·1
	Ranaghat	—	4	2	—	—	—	26·4	76·5	—	—	2	—	—	—	—	1	—	1	1	1	542·4	...	—	—	...	34·5	—	51·3	71·8	91·4
	Santipore	—	2	—	—	—	—	5·9	—	—	—	2	—	—	—	—	—	—	—	—	—	123·1	.	—	—	...	...	—	.	...	...
Jessore ...	Jessore	—	2	2	—	—	—	25·1	27·2	—	—	1	—	—	—	—	1	1	—	—	1	268·0	—	—	—	.	25·8	34·9	...	92·4	
Rajshahye ...	Rampore Beauleah	—	4	2	—	—	—	21·9	47·7	—	—	2	—	—	1	—	—	4	—	3	3	254·2	—	25·0	—	—	—	57·7		125·7	162·0
Darjiling ...	Darjiling	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dacca ...	Dacca	—	17	5	—	—	—	21·9	6·6	—	—	3	2	—	2	2	4	1	2	2	3	83·2	21·2	10·5	—	14·2	13·6	4·5	12·4	22·0	28·2
	Naraingunj ...	—	4	10	—	—	—	23·9	84·4	—	—	6	2	—	—	—	1	4	1	2	1	359·1	61·2	—	—	—	19·3	27·2	37·3	133·9	79·2
Chittagong ...	Chittagong ...	—	1	2	—	—	—	9·9	6·8	—	—	—	—	—	—	—	—	1	—	2	—	—	—	—	—	—	—	16·6	—	95·9	—
Tipperah ...	Comillah	—	3	13	—	—	—	39·2	84·4	—	—	2	2	1	2	1	3	—	1	2	1	250·2	79·5	81·9	71·3	41·3	46·5	—	39·6	139·8	76·7
Patna	Patna City ...	—	17	13	—	—	—	7·4	13·2	—	—	3	3	2	2	—	6	1	2	3	8	36·2	7·1	6·2	7·2	—	13·8	2·3	5·5	11·0	30·1
Gya ...	Gya	—	37	6	—	—	—	22·1	19·6	—	—	6	3	2	3	—	4	7	2	5	12	143·9	24·6	14·9	23·2	...	14·1	26·6	30·6	39·6	121·2
Shahabad ...	Arrah	—	9	2	—	—	—	15·1	9·4	—	—	1	1	—	—	1	3	2	—	—	1	40·4	11·7	—	—	16·2	33·1	16·2	.	...	18·0
Mozufferpore ...	Mozufferpore ...	—	6	5	—	—	—	10·6	20·8	—	—	3	1	—	2	—	3	—	2	—	2	106·9	12·9	—	26·3	...	13·1	—	2·6	...	42·7
Durbhanga ...	Durbhanga ...	—	17	4	—	—	—	18·3	11·8	—	—	4	5	—	1	2	2	3	1	1	3	183·6	34·2	—	9·6	25·9	7·8	9·3	7·0	11·9	48·8
Saran	Chupra	—	4	—	—	—	—	5·2	—	—	—	3	—	—	—	—	—	—	—	—	2	75·7	.	—	—	...	...	...	...	...	80·6
Bhagulpore ...	Bhagulpore ...	—	9	3	—	—	—	11·8	6·6	—	—	2	1	—	—	—	2	2	—	1	3	87·1	9·6	—	—	—	9·5	11·2	—	12·2	43·3
Monghyr ...	Monghyr	—	16	7	—	—	—	20·9	29·6	—	—	5	5	1	—	1	3	3	1	—	6	175·1	41·8	7·4	—	13·8	15·1	17·5	8·8	—	87·0
Purneah ...	Purneah	—	2	3	—	—	—	11·3	37·6	—	—	1	—	—	—	1	—	2	1	—	—	183·7	—		—	52·3	—	35·5	29·6	—	—
Poori ...	Poori	—	46	—	—	—	—	97·5	—	—	—	2	5	2	—	3	5	10	4	5	4	243·2	231·3	46·4	—	33·9	78·7	123·3	62·6	110·5	115·2
	TOTAL ...	2	299	113	—	—	14·9	20·3	19·2	—	—	64	46	19	12	17	57	60	29	35	74	131·1	25·7	6·9	6·5	19·9	14·6	17·8	13·9	23·5	55·5

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of December 1889.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	Miles 86		134	48	90		177	67	287	110	381	94	471	90	561	120						
	Distance. From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah						
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st	5·42	211·64	4·17	209·97	4·92	172·97	9·70	143·23	5·04	104·89	2·75	70·75	5·29	47·29	5·50	14·44	6·13	40·07	7·17	12·42	2·30	151·06
2nd	5·33	211·55	4·06	209·86	4·92	173·97	9·60	143·23	2·96	104·81	2·67	70·67	5·27	47·27	5·25	14·19	6·17	39·91	6·92	11·22	2·20	150·96
3rd	5·25	211·47	4·00	209·80	4·83	173·88	9·55	143·18	2·88	104·73	2·58	70·58	5·25	47·25	5·08	14·02	6·05	39·82	6·71	11·01	2·10	150·86
4th	5·17	211·39	3·92	209·72	4·75	173·80	9·50	143·13	2·79	104·64	2·50	70·50	5·23	47·23	4·92	13·86	6·00	39·74	6·92	11·22	2·00	150·76
5th	5·00	211·22	3·83	209·63	4·67	173·72	9·43	143·06	2·73	104·60	2·50	70·50	5·19	47·19	4·83	13·77	5·92	39·66	7·00	11·30	1·90	150·66
6th	4·92	211·14	3·75	209·55	4·67	173·72	9·35	143·58	2·67	104·52	2·50	70·50	5·15	47·15	4·83	13·77	5·92	39·67	6·75	11·05	1·80	150·56
7th	4·83	211·06	3·67	209·47	4·58	173·63	9·29	143·43	2·58	104·43	2·50	70·50	5·11	47·11	4·83	13·77	5·67	39·41	6·73	11·13	1·90	150·36
8th	4·75	210·97	3·50	209·30	4·50	173·55	9·15	143·38	2·46	104·31	2·50	70·50	5·06	47·06	4·75	13·69	5·59	39·24	6·75	11·05	1·50	150·26
9th	4·67	210·89	3·33	209·13	4·42	173·47	9·15	143·38	2·42	104·27	2·42	70·42	5·00	47·00	4·58	13·52	5·42	39·16	6·67	10·97	1·40	150·16
10th	4·67	210·89	3·25	209·05	4·42	173·47	9·10	143·33	2·33	104·18	2·33	70·33	4·94	46·94	4·50	13·44	5·33	39·07	6·17	10·47	1·30	150·06
11th	4·67	210·89	3·17	209·97	4·33	173·38	9·10	143·33	2·25	104·10	2·25	70·25	4·86	46·86	4·42	13·36	5·17	38·91	6·38	10·68	1·20	149·96
12th	4·58	210·80	3·17	209·97	4·25	173·30	9·10	143·33	2·08	103·93	2·17	70·17	4·79	46·79	4·33	13·27	5·08	38·82	6·25	10·55	1·10	149·86
13th	4·50	210·72	3·08	209·88	4·25	173·30	9·05	143·28	1·96	103·81	2·00	70·08	4·71	46·71	4·08	13·03	5·00	38·74	5·83	10·13	1·00	149·76
14th	4·50	210·72	3·00	209·80	4·25	173·30	9·00	143·23	1·83	103·68	1·92	69·92	4·65	46·65	4·00	12·94	4·96	38·70	5·42	9·72	0·90	149·66
15th	4·42	210·64	2·92	209·72	4·17	173·22	8·95	143·18	1·76	103·60	1·83	69·83	4·58	46·58	3·92	12·77	4·92	38·26	5·42	9·72	0·80	149·56
16th	4·42	210·64	2·83	209·63	4·17	173·22	8·90	143·13	1·55	103·43	1·67	69·67	4·50	46·50	3·67	12·61	4·88	38·22	5·17	9·47	0·70	149·46
17th	4·26	210·55	2·75	209·55	4·08	173·13	8·50	142·73	1·50	103·35	1·58	69·58	4·44	46·44	3·50	12·44	4·75	38·09	5·00	9·30	0·60	149·36
18th	4·25	210·55	2·67	209·47	4·00	173·13	8·50	142·73	1·42	103·27	1·50	69·50	4·36	46·36	3·33	12·27	4·67	38·01	4·83	9·13	0·40	149·16
19th	4·25	210·47	2·58	209·38	4·00	173·05	8·40	142·63	1·29	103·14	1·33	69·33	4·27	46·27	3·25	12·19	4·58	37·92	4·66	9·36	0·30	149·06
20th	4·17	210·39	2·50	209·30	4·00	173·05	8·40	142·63	1·21	103·06	1·25	69·25	4·19	46·19	3·25	12·19	4·46	37·80	4·25	8·95	0·20	148·96
21st	4·17	210·39	2·46	209·26	3·92	172·97	8·30	142·53	1·04	102·93	1·17	69·17	4·04	46·04	3·25	12·19	4·42	37·76	3·33	9·03	0·10	148·86
22nd	4·00	210·22	2·42	209·22	3·83	172·88	8·25	142·48	1·00	102·85	1·08	69·08	4·00	45·90	3·25	12·19	4·33	37·67	4·67	9·97	0·20	148·96
23rd	4·00	210·22	2·38	209·18	3·83	172·88	8·20	142·43	0·91	102·81	1·00	69·00	3·92	45·92	3·17	12·11	4·25	37·59	5·00	10·30	0·30	149·06
24th	4·00	210·22	2·33	209·13	3·75	172·80	8·15	142·38	0·92	102·77	0·92	68·92	3·83	45·83	3·17	12·11	4·17	37·91	5·17	10·47	0·30	149·06
25th	3·92	210·14	2·29	209·09	3·67	172·75	8·10	142·33	0·83	102·68	0·83	68·83	3·75	45·75	3·25	12·19	4·08	37·82	6·13	10·43	0·10	Below zero. 148·86
26th	3·83	210·05	2·25	209·05	3·58	172·63	8·05	142·28	0·79	102·64	0·83	68·83	3·67	45·67	3·25	12·19	4·08	37·74	6·09	10·39	0·20	148·96
27th	3·83	210·05	2·21	209·01	3·58	172·63	8·05	142·28	0·75	102·60	0·75	68·75	3·58	45·58	3·17	12·11	3·96	37·70	5·50	9·80	0·40	148·36
28th	3·75	209·97	2·17	208·97	3·58	172·63	8·00	142·23	0·67	102·52	0·67	68·67	3·50	45·50	2·92	11·86	3·92	37·66	4·75	9·05	0·50	148·26
29th	3·75	209·97	2·13	208·93	3·50	172·55	8·00	142·23	0·73	102·45	0·58	68·58	3·42	45·42	2·58	11·52	3·83	37·63	4·50	8·80	0·60	147·16
30th	3·75	209·97	2·08	208·88	3·50	172·55	8·00	142·23	0·54	102·39	0·50	68·50	3·33	45·33	2·17	11·11	3·83	37·67	4·33	8·63	0·80	147·36
31st	3·67	209·89	2·00	208·80	3·50	172·55	7·95	142·18	0·50	102·35	0·42	68·42	3·25	45·25	2·42	11·36	3·75	37·49	4·00	8·20	0·90	147·26

CALCUTTA,
The 25th March 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 22nd March 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 22nd March 1890.			Week ending Saturday, the 23rd March 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	905	1,99,735	3,250	659	1,58,550	2,626
Jute	35	26,875	483	20	13,550	233
Firewood	111	56,175	880	160	66,175	865
Other articles	958	2,56,550	3,701	1,006	2,84,235	4,523
Total ...	2,009	5,39,335	8,320	1,845	5,22,510	8,247

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of December 1889, as compared with the same month of the previous year.

Staples.	1889.		1888.		Total.		Increase.	Decrease
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,157	99	3,606	18	1,256	3,619	.....	2,363
Cotton, raw	2	1	.....	.....	3	.....	3	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	508	6	185	1	514	186	328	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	28	118	2	72	146	74	72	.....
5.—Others	67	15	21	61	102	82	20	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	46	.....	23	46	23	16	.....
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	15	1,637	.....	1,585	1,652	1,585	67	.....
2.—Gunny bags and cloth	9	.....	2	.....	9	2	7	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	66	13	48	61	80	109	.....	29
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	106	.....	67	.....	106	67	39	.....
3.—Others	75	.....	29	1	75	30	45	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Nizer	13	43	89	16	56	75	.....	19
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	9	739	.....	126	748	126	622	.....
3.—Others	56	22	41	23	58	64	.....	6
Railway plant and rolling-stock	21	45	19	19	66	38	28	.....
Salt	246	.....	106	.....	246	156	90	.....
Sugar—								
1.—Drained	66	110	7	178	176	185	.....	9
2.—Undrained								
Wood—								
1.—Timber	..	.....	12	.....	..	12	.....	12
2.—Firewood								
Tobacco	86	88	21	11	114	32	82	.....
All other articles of merchandise—								
1.—Unmanufactured	411	145	318	182	556	500	56	.....
2.—Manufactured								
Total ...	2,883	3,120	4,603	2,387	6,009	6,990	1,457	2,438

Comparative Statement of traffic, Bengal Central Railway, for December 1889.

	Tons.
Decreases.	
Coal	2,663
Mostly in coal for brick burning, it is believed.	
Increases.	
Betel-nuts	612
Ordinary fluctuation.	
Cotton piece-goods	328
Ordinary fluctuation.	

Calcutta, *the 24th March* 1890.

F. P. Quinlan,
Examiner of Accounts.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of December 1889, *as compared with the same month of the previous year.*

Staples.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	8,926	1,980	11,017	3,557	10,906	14,794	....	3,788
Cotton, raw	47	830	105	369	877	464	413	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece goods—								
1.—European—								
a.—In bales and bundles	3,639	88	2,348	135	3,727	2,483	1,244	.. ..
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2,217	2,803	1,287	2,526	5,020	3,763	1,257	.. ..
5.—Others	1,041	6,756	799	5,240	7,797	6,039	1,758	... ..
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	5	603	8	628	967	636	31	.. ..
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	5	7,228	.....	3,649	7,233	3,649	3,584	... ..
b.—Unscrewed	22	42,563	33	35,442	42,585	35,475	7,110	....
2.—Gunny-bags and cloth	327	1,712	158	1,358	2,039	1,496	543	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	1,561	153	953	171	1,718	1,124	589	.....
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	482	8	417	6	490	423	67	... ..
3.—Others	220	72	135	32	292	167	105	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	72	2,452	70	1,081	2,524	1,151	1,373	...
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betelnuts	178	755	103	149	933	252	681	.....
3.—Others	532	305	475	371	837	546	51	...
Railway plant and rolling-stock	5,093	6,163	3,906	1,449	11,256	5,355	5,901	.....
Salt	5,086	2	3,721	9	5,088	3,730	1,358	.....
Sugar—								
1.—Drained	1,291	127	603	319	1,418	922	496	. ..
2.—Undrained								
Tea—								
1.—Foreign	..	1,917	1	1,579	1,917	1,580	337	.....
2.—Indian								
Wood—								
1.—Timber	189	54	106	73	243	179	64	.....
2.—Firewood	1,931	....	1,966	44	1,931	2,010	....	79
Tobacco	47	739	49	1,162	786	1,211	....	425
All other articles of merchandise—								
1.—Unmanufactured	4,793	2,295	3,748	1,909	6,093	5,657	1,036	.....
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Section)	335	.....	540	.....	335	540	... ..	185
Total	33,044	79,023	32,513	61,163	1,17,267	93,686	28,058	4,477

Comparative Statement of the principal commodities carried by the Eastern Bengal State Railway during the month of December 1889.

Increases.

	Tons.
Cotton, raw	413
Chiefly from C. P. T. Railway, Goalundo, and Atrai.	
Cotton piece-goods	1,244
The increase is general, and appears to be due to the partial recovery of a congested market.	
Rice	1,237
Due to a brisk demand for Assam and the Calcutta market.	
Jute, screwed	3,584
Do., unscrewed	7,110
The season is a later one than last year.	
Seeds	1,373
The crop is a good one.	
Railway plant and rolling-stock	5,901
Repairs and renewals.	
Salt	1,358
Principally from C. P. T. Railway.	
Tea	337
Principally from Jalpaiguri, due to the increasing yield of the Dooars gardens.	

Decreases.

	Tons.
Coal	3,788
Less demand for brick-burning and fluctuation in supply for railway purposes.	
Tobacco	425
Decreased despatches from Northern Section.	

F. P. Quinlan,

Examiner of Accounts.

Calcutta, *the 24th March* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 15th March 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	256,854*	2,87,280 7 0*	25,80,082 10	6,09,880 10 0	19,458 9 0	9,16,605 10 0	65,291	103,069½	168,360½
Or per mile of railway	.....	188 5 1	.....	399 12 9	12 11 19	600 13 8	.....	.....	.....
For previous 10 weeks of half-year	2,559,954	29,18,297 0 0	2,51,58,550 30	58,46,213 11 0	1,86,383 2 0	89,60,893 6 0	643,738½	900,293½	1,543,031½
Total for 11 weeks ...	2,816,808	32,05,578 0 0	2,77,38,633 0	64,56,100 5 0	2,15,820 11 0	98,77,499 0 0	709,029½	1,003,362½	1,711,392½
Comparison.									
Total for corresponding week of previous year	281,495½	3,19,169 13 7	26,34,614 20	5,95,403 0 11	16,380 8 8	9,30,844 7 0	69,368	94,778	164,146
Per mile of railway corresponding week of previous year ...	.....	209 3 6	.....	390 4 9	10 10 9	610 3 0	.....	.....	.....
Total to corresponding date of previous year	2,874,972	33,43,890 7 10	3,02,44,749 20	64,19,669 8 2	1,69,179 1 8	1,01,37,238 12 3	720,122	1,056,315	1,776,437

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included traffic on account of "Gobind Dwadasi" (a bathing festival).

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th March 1889.			Receipts for week ending 15th March 1890.			Total receipts from 1st April 1888 to 16th March 1889.			Total receipts from 1st April 1889 to 15th March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,30,844	610	1,525½	9,16,606	601	1,525½	4,34,76,964	560	1,525½	4,23,93,963	556	.....	2,83,001

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 15th March 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,451	7,236 1 0	69 285 20	3,715 2 0	36 3 0	10,987 6 0	1,525½	905	2,430½
Or per mile of railway	253	126 8 1	1,054 0	64 15 2	0 10 5	192 1 5	.....	.....	.....
For previous 10 weeks of half-year	119,601	64,123 6 0	2,71,943 20	24,307 0 0	435 11 0	89,066 1 0	17,197	6,564	23,761
Total for 11 weeks ...	134,052	71,359 7 0	4,31,229 0	28,022 2 0	471 14 0	1,00,053 7 0	19,02½	7,159	26,181½
Comparison.									
Total for corresponding week of previous year	20,365	12,153 2 0	35,903 10	2,265 7 0	68 11 9	14,486 4 9	2,035	974	3,009
Per mile of railway corresponding week of previous year ...	356	212 7 2	592 30	39 9 8	1 3 3	253 4 1	.....	.....	.....
Total to corresponding date of previous year	183,589	84,657 15 3	3,42,420 10	19,571 7 0	460 11 0	1,04,710 1 3	20,961	6,632	26,963

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th March 1889.			Receipts for week ending 15th March 1890.			Total receipts from 1st April 1888 to 16th March 1889.			Total receipts from 1st April 1889 to 15th March 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	14,486	253	57½	11,987	192	57½	4,73,460	155	57½	4,82,146	169	8,676	.....